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# BOOKBUILDER API

## Developer's Manual and Reference
## June 2024

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## Contents

## 1. Motivation

FactSet delivers superior analytics, service, content, and technology to help our clients seize opportunities sooner. We are committed to giving investment professionals the edge to outperform, with fresh perspectives, informed insights, and the industry-leading support of our dedicated specialists.

Through the BookBuilder API, users can readily access a curated set of reports from across FactSet's diverse content and analytics to capture relevant and actionable information combined into polished pdfs that can be read, saved down, and shared with others.

- Save time by using a single source of knowledge instead of relying on multiple APIs to gather all the necessary information to make decisions or hold productive conversations.
- Design your own pdf documents layouts that can be used again and again for multiple companies.
- View FactSet data without opening the FactSet workstation.
- Take advantage of FactSet curated books that contain relevant situational information.

## 2. API Program Overview

Clients have been moving towards building custom solutions, driven by the need to increase productivity by consolidating information into a single user experience. As the market continues to demand more transparency and data, FactSet will provide flexible options to meet those demands. APIs complement the current report offerings and facilitate client and internal workflows by surfacing meaningful data in a timely manner through the BookBuilder API.

The program will provide the following:

- A REST API to access FactSet's curated reports and analytics.

- Uniform feel across all FactSet's APIs.

- Adherence to industry standards.

- Documentation on the developer portal.

## 3. Glossary

- **Book:** A book is a PDF document made up of a collection of FactSet curated reports and content that give a detailed summary of a company.

- **Template:** A template is a preset list of reports designed to be used repetitively while creating books. Templates can be user designed or curated by FactSet.

## 4. BookBuilder API

- **Documentation:** The BookBuilder API and documentation can be found at https://developer.factset.com/api-catalog/bookbuilder-api.

- **Authentication:** All APIs are hosted under https://api.factset.com/. Authentication is handled using API Keys and authorization is handled using FactSet's in-house subscriptions product. You can find more information about using API Keys at https://developer.factset.com/authentication.

# 5. Endpoints

Once authenticated, the basic structure of the API has the following endpoints:

### 5.1 GET book-list

https://api.factset.com/book-builder-api/v1/book-list

This endpoint retrieves the unique bookID, book name, and the creation date for the previously created documents. The documents listed were created in the prior 30 days via API or via the FactSet workstation. On successful authentication, this endpoint returns the status code 200 with the following response.

```
[
    {
        "book_id": "20210914130745393",
        "book_name": "Apple Inc - Sales Report",
        "created_on": "2021-09-14 13:08:57"
    },
    {
        "book_id": "20210914130714159",
        "book_name": "FactSet Research Systems Inc.",
        "created_on": "2021-09-14 13:07:33"
    },
    {
        "book_id": "20210914130618890",
        "book_name": "Alphabet Inc_Onepager",
        "created_on": "2021-09-14 13:07:07"
    }
]
```

When there are no books available in the user's library, the endpoint returns 200 with a message saying, "**No books available**". The other possible return for this endpoint is an improper authentication return, an HTTP status code 401. Further information on the HTTP status codes and returns is in the appendix.

### 5.2 GET template-list

https://api.factset.com/book-builder-api/v1/template-list

This endpoint retrieves the list of templates available in the user's template library.

The templates with *g_* as prefix in the template _id are FactSet curated templates. These FactSet curated templates contain relevant situational information that helps quickly create a book. The available curated templates are:

- Company Quick Book – Designed to get you up to date before any meeting.
- Post Earnings Call – Retrieve the earnings call transcript, corporate releases, and a summary of surprise and guidance to get insight into the impact of the call.
- Public Information Book (PIB) – A traditional investment banking document that includes all the company information, including the latest filing.

On successful authentication, this endpoint returns the status code 200 with the following response.

```
[
    {
        "template_id": "g_20210415070353151",
        "template_name": "Public Information Book (PIB)",
        "created_on": "2021-04-15 07:07:51",
        "template_source": "generic_template",
        "type": "public"
    },
    {
        "template_id": "20210304125001911",
        "template_name": "Latest Prospectus",
        "created_on": "2021-03-04 12:52:17",
        "template_source": "own_template",
        "type": "public"
    }
    {
        "template_id": "20200619074717556",
        "template_name": "Financials",
        "created_on": "2020-06-19 07:48:23",
        "template_source": "own_template",
        "type": "public"
    }
]
```

Each array in the above response is its own template. It has unique template_id, template name, creation date, template type (public companies, private companies, fixed income securities, mutual funds, ETFs, custom reports) and the source (own vs. shared).

The other possible return for this endpoint is an improper authentication return, an HTTP status code 401. Further information on the HTTP status codes and returns is in the appendix.

### 5.3 POST create-template

https://api.factset.com/book-builder-api/v1/create-template

This post request enables users to design a template on the fly. You can create a layout with the reports of your choice, and it can be used in quickly creating the books with the same layout again and again.

The template name, template type, section ids, and report ids need to be passed in the request body.

The below are the valid template type parameters.

| Template type | Valid parameter |
|---|---|
| **Public** | public |
| **Private Equity** | pe |
| **Private Company** | pc |
| **Fixed Income** | fi |
| **Mutual Fund** | mf |
| **ETF** | etf |

The content sections and reports have their unique IDs. A complete list all the currently supported reports for each identifier type are available in JSON format in the Appendix sections 6.6 through 6.12.

**Notes:**

1. People Profile report under Management and Governance cannot be added to the books created via this endpoint.
2. The document archives such as Filings, IRN, StreetAccount, News, Broker Research, Key Exhibits, Transcripts and Slides are dynamic in nature and are pulled in predefined sets based on availability (i.e Latest, Latest 3, Latest 5, etc.). The request body contains report_id and report count, as shown in the example below. The detailed list of valid inputs for report count is included in Appendix section 6.2.
3. Charts need additional requests to be passed indicating the period as shown in the example below. The detailed list of valid inputs for period is included in the Appendix section 6.4
4. Custom Reports cannot be added at this time.

If authenticated and a valid template type and valid content section/report ids are entered, a successful request below will the following response with a status code 200

*Request Body:*

```
{
    "tmpl_name": "Quick Overview",
    "tmpl_type": "public",
    "content":
    [
        {
            "section_id": "COMPANY_OVERVIEW",
            "reports":
            [
                "COMPANY_SNAPSHOT_IB",
                "COMPANY_SNAPSHOT_IM"
            ]
        }
    ]
}
```

*JSON Response:*

```
{
    "tmpl_id": "2022040312564789",
    "tmpl_name": "Quick Overview"
}
```

The response contains template_id(tmpl_id) and template name(tmpl_name).

Request body for the books that has dynamic reports included. In the below example, there is a Filings report added with LATEST_ANNUALS as report_id and report count as 5 which means the book includes the 5 latest annual filings.

```
{
    "tmpl_name": "Quick Overview",
    "tmpl_type": "public",
    "content":
    [
        {
            "section_id": "COMPANY_OVERVIEW",
            "reports":
            [
                "COMPANY_SNAPSHOT_IB",
                "COMPANY_SNAPSHOT_IM"
            ]
        }
        {
            "section_id": "FILINGS_ANNUALS",
            "reports": [
            {
                "report_id": "LATEST_ANNUALS",
                "report_count": 5
            }
            ]
        }
    ]
}
```

Request body for the books that has charts included. In the below example, there is a Price Chart added with PRICE_CHART as report_id and Period as 3M which means the book takes the Price Chart with 3-month period.

```
{
    "tmpl_name": "Quick Overview",
    "tmpl_type": "public",
    "content":
    [
        {
            "section_id": "COMPANY_OVERVIEW",
            "reports":
            [
                "COMPANY_SNAPSHOT_IB",
                "COMPANY_SNAPSHOT_IM"
            ]
        },
        {
            "section_id": "PRICE_CHARTS",
            "reports": [
            {
                "report_id": "PRICE_CHART",
                "period": "3M"
            }
            ]
        }
    ]
}
```

If an invalid template type is entered, the response contains the status saying, "tmpl_type is not valid. tmpl_type must be one of [public,pc,pe,fi,mf,etf]" with a response code 400.

If an invalid section_id is entered, the endpoint returns a response code 400 with a message listing out the valid parameters.

If an invalid report_id is entered, the response contains the status saying, "Unable to save template." with a response code 400.

The other possible return for this endpoint is an improper authentication return, an HTTP status code 401. Further information on the HTTP status codes and returns is in the appendix.

### 5.4 POST create-book

https://api.factset.com/book-builder-api/v1/create-book

This post request enables users to design a custom pdf document on the fly that contains all the relevant information specific to the current need. The layout of this book will not be saved as a template for reuse.

The book name, ticker, pagination options, section ids and report ids to be passed in the request body.

There are 5 pagination options: cover, section divider, footer, timestamp and Table of Contents respectively. These can be specified as true or false. The content sections and reports have their unique IDs. A complete list all the currently supported reports for each identifier type are available in JSON format in the Appendix sections 6.6 through 6.13. If these are not passed default options will be set to the book i.e., cover page, divider, footer and table of content will be shown, and timestamp will be excluded in the output.

**Notes:**
1. People Profile report under Management and Governance cannot be added to the books created via this endpoint.
2. The document archives such as Filings, IRN, StreetAccount, News, Broker Research, Key Exhibits, Transcripts and Slides are dynamic in nature and are pulled in predefined sets based on availability (i.e Latest, Latest 3, Latest 5, etc.). The request body contains report_id, report count, and filtering options for selecting English-only stories and excluding blackline reports, as shown in the example below. The detailed list of valid inputs for report count is included in Appendix section 6.2 and the list of valid inputs for filters is included in Appendix section 6.3.
3. Users must subscribe to StreetAccount or IRN for a request including them to succeed.
4. Charts need additional requests to be passed indicating the period as shown in the example below. The detailed list of valid inputs for period is included in the Appendix section 6.4
5. Custom documents need to be explicitly uploaded using upload-custom-document endpoint before using them in creating books
6. Custom Reports cannot be added at this time.
7. Timezone is an optional parameter and if not passed then the timestamp's timezone will default to "EDT".

If authenticated and a valid ticker and valid content section/report ids are entered, a successful request below will the following response with a status code 200

*Request Body:*

```
{
    "book_name": "Company Book for FDS-US",
    "ticker": "FDS-US",
    "pagination":
    {
        "cover": true,
        "divider": true,
        "toc": true
    },
    "content":
    [
        {
        "section_id": "COMPANY_OVERVIEW",
        "reports":
            [
                "COMPANY_SNAPSHOT_IB",
                "COMPANY_SNAPSHOT_IM"
            ]
        }
    ]
}
```

*JSON Response*

```
{
    "book_name": "Company Book for FDS",
    "book_id": "2022040312564789"
}
```

Request body for the books that has dynamic reports included. In the below example, there is a Filings report added with LATEST_ANNUALS as report_id, report count as 5 which means the book includes the 5 latest annual filings that are in English and are not FactSet Blackline reports, filings that save readers time by automatically comparing filings with the previous period and highlighting the changes.

```
{
    "book_name": "Company Book for FDS-US",
    "ticker": "FDS-US",
    "pagination":
    {
        "cover": true,
        "divider": true,
        "toc": true,
        "footer": true,
        "timestamp": true,
        "timezone": "EDT"
    },
    "content":
    [
        {
            "section_id": "COMPANY_OVERVIEW",
            "reports":
            [
                "COMPANY_SNAPSHOT_IB",
                "COMPANY_SNAPSHOT_IM"
            ]
        },
        {
            "section_id": "FILINGS_ANNUALS",
            "reports":
            [
                {
                    "report_id": "LATEST_ANNUALS",
                    "report_count": 5,
                    "filters":
                    {
                            "languages": ["EN"],
                            "filterOutReports": ["FBLK"]
                    }
                }
            ]
```

Request body for the books that has charts included. In the below example, there is a Price Chart added with PRICE_CHART as report_id and Period as 3M which means the book takes the Price Chart with 3-month period.

```
{
    "book_name": "Company Book for FDS-US",
    "ticker": "FDS-US",
    "pagination":
    {
        "cover": true,
        "divider": true,
        "toc": true,
        "footer": true,
        "timestamp": true,
        "timezone": "EDT"
    },
    "content":
    [
        {
            "section_id": "COMPANY_OVERVIEW",
            "reports":
            [
                "COMPANY_SNAPSHOT_IB",
                "COMPANY_SNAPSHOT_IM"
            ]
        },
        {
            "section_id": "PRICE_CHARTS",
            "reports": [
            {
                "report_id": "PRICE_CHART",
                "period": 3M
            }
            ]
```

If an invalid ticker or is entered, the response contains the status mentioning, "Please input a valid ticker for Public Company/Private Company/Private Equity/Fixed Income to build Book" with a response code 400.

If any pagination option is entered as non-Boolean, the response contains the status mentioning, "ValidationError: \"pagination.cover\" must be a Boolean" with a response code 400.

If an invalid section_id is entered, the endpoint returns a response code 400 with a message listing out the valid parameters.

If an invalid report_id is entered, the response contains the status mentioning, "Unable to save template." with a response code 400.

If a invalid book_name is entered, the response contains the status mentioning "Invalid Book Name. Only the following characters are allowed for the Book Name: a-z A-Z 0-9 ` , . & ' $ % ( ) - + * = _ /" with a response code 400.

If the chosen reports are not available, then response contains the status mentioning "Some of the reports you have chosen for the book creation do not have data available for the specified ticker. As a result, these reports cannot be included in the final output." along with the list of report IDs.

The other possible return for this endpoint is an improper authentication return, an HTTP status code 401. Further information on the HTTP status codes and returns is in the appendix.

## 5.5 POST create-book-from-template

https://api.factset.com/book-builder-api/v1/create-book-from-template/

This endpoint is a POST request where the ticker and the template ID are included in the requested body.

If authenticated and a valid ticker and(or) a template ID for the template is entered, a successful request will return an HTTP status code "OK".

If a valid ticker is entered (and)with a valid template_id, the company name corresponding to that ticker will be listed as the book name and the book is based off the template corresponding to the template_id passed.

*Request Body:*

```
{
    "ticker": "FDS-US",
    "template_id": "2022040312564789"
}
```

*JSON Response*

```
{
    "status": "OK",
    "bookName": "Apple Inc.",
    "bookID": "20200130152508447"
}
```

If the template ID is not passed, the company name corresponding to that ticker will be listed as the book name the book generated is based off the default template.

If an invalid ticker or is entered, the response contains the status saying, "Book id cannot be generated" and a message saying, "Unrecognized ticker".

If an invalid ticker or is entered, the response contains the status saying, "Book id cannot be generated" and a message saying, "Most likely template id does not exist".

The other possible return for this endpoint is an improper authentication return, an HTTP status code 401. Further information on the HTTP status codes and returns is in the appendix.

## 5.6 GET download-api-book

https://api.factset.com/book-builder-api/v1/download-api-book/[bookID]

The GET endpoint requires one parameter, the bookID. The endpoint generated from this get with a valid book ID is a PDF book. The data that is retrieved is taken from the time the report is generated and based off the ticker in the request for the bookID.

If authenticated and a valid bookID is entered, a successful response occurs which will output the PDF book based off the ticker from the corresponding book-id return.

Another possible response is that the bookID given is invalid and an HTTP status code of 404 is shown-Unrecognized bookID.

Further information on the HTTP status codes and returns is in the appendix 6.1.

**Note:**
- If the book is not fully generated, a message saying "Book is in progress. Try again later." will appear. A page refresh may be necessary to load in the PDF. The book processing may take a few minutes depending upon the size of the book.
- The downloaded book will be named the same as the "book_name" mentioned in the request to create the book.

### 5.7 POST upload-custom-document

https://api.factset.com/book-builder-api/v1/upload-custom-document

This endpoint helps you upload any third-party documents that need to be included in the final PDF. You can upload multiple files at once. The operation payload is defined using formData parameters (not body parameters). The file parameter must have type: file:

**Note:**
- Supported files include PowerPoint, Word, RTF, and PDF.
- Each file should not exceed 10MB.
- The total size of all the documents uploaded at a time should not exceed 250MB.
- The uploaded files are available for 30 days from the time you upload.

Once uploaded, the successful response will be a unique file_url that can be used to add the files to the PDF output using the create-book endpoint.

```
[
    {
        "name": "Custom Upload1",
        "file_url":
        "e0782a6ade6a4a422052e23b6e2df586d27a08ea40e1aef9f202734428c5b9ae392c132545"
    },
    {
        "name": "Custom Upload2",
        "file_url":
        "e0782a6ade6a4a422052e23b6e2df586d27a08ea40e1aef9f202734428c5b1ae392c132545"
    },
    {
        "name": "Custom Upload3",
        "file_url":
        "e0782a6ade6a4a422052e23b6e2df586d27a08ea40e1aef9f202734428c5b9ae322c132545"
    }
]
```

### 5.8 GET custom-upload-list

https://api.factset.com/book-builder-api/v1/custom-upload-list

This endpoint retrieves the unique name and file_url for documents uploaded in the prior 30 days. On successful authentication, this endpoint returns the status code 200 with the following response.

Once uploaded, the successful response will be a unique file_url that can be used to add the files to the PDF output using the create-book endpoint.

```
[
    {
        "name": "Custom Upload1",
        "file_url":
         "e0782a6ade6a4a422052e23b6e2df586d27a08ea40e1aef9f202734428c5b9ae392c132545"
    },
    {
        "name": "Custom Upload2",
        "file_url":
         "e0782a6ade6a4a422052e23b6e2df586d27a08ea40e1aef9f202734428c5b1ae392c132545"
    },
    {
        "name": "Custom Upload3",
        "file_url":
         "e0782a6ade6a4a422052e23b6e2df586d27a08ea40e1aef9f202734428c5b9ae322c132545"
    }
]
```

# 6. Appendix

## 6.1 Status Codes

| HTTP status code | Description |
|---|---|
| 200 | Proper Authentication, template/bookID/PDF returned |
| 202 | Book is in progress. Try again later. |
| 400 | Invalid ticker/template type/section_id/report_id |
| 401 | Missing or invalid Authentication |
| 404 | Unrecognized bookID |

## 6.2 Valid Report Counts for Dynamic Content

| Report | Valid Report Count (Latest) |
|---|---|
| Transactions > Deal Details | 3, 5, 10 |
| StreetAccount & News > StreetAccount | 3, 5, 10 |
| StreetAccount & News > Press Releases | 3, 5, 10 |
| Streetaccount & News > All News | 3, 5, 10 |
| Internal Research Notes | 3, 5, 10 |
| Filings > Annuals | 1, 5 |
| Filings > Interim | 1, 2, 3, 5 |
| Filings > Corporate Releases | 1, 2 |
| Filings > Prospectuses | 1, 5 |
| Filings > M&A Related | 1, 5 |
| Filings > Ownership | 1, 5 |
| Filings > Proxies | 1, 5 |
| Filings > M&A Deals | 1, 5 |
| Filings > All | 1, 5 |
| Key Exihibits > General Corporate | 1 |
| Key Exihibits > Mergers Acquisitions | 1 |
| Key Exihibits > Security Holders | 1 |
| Key Exihibits > Customer Supplier | 1 |
| Key Exihibits > Employment Compensation | 1 |
| Key Exihibits > Announcements | 1 |
| Broker Research > Initiating Coverage | 1, 2, 3, 5, 10 |
| Broker Research > Favorite Broker | 1, 2, 3, 5, 10 |
| Broker Research > Research Reports | 1, 2, 3, 5, 10 |
| Transcripts & Slides > Transcripts | 1, 2, 3 |
| Transcripts & Slides > Investor Slides | 1, 2 |

### 6.3    Valid Report Inputs for Filings Filters

| Filter | Valid Inputs |
|---|---|
| Language | EN (English) |
| FilterOutReports | FBLK (FactSet Blackline Reports) |

### 6.4 Valid Periods for Charts

| Chart | Valid Period |
|---|---|
| **Price Charts** | |
| Price Chart | 3M, 6M, 1Y, 5Y, 10Y |
| Price Volume Chart | 3M, 6M, 1Y, 5Y, 10Y |
| Price & Relative Strength | 3M, 6M, 1Y, 5Y, 10Y |
| **Valuation Charts** | |
| Dividend Yield | 1Y, 5Y, 10Y, 15Y |
| Enterprise Value to EBITDA | 1Y, 5Y, 10Y, 15Y |
| Enterprise Value to Sales | 1Y, 5Y, 10Y, 15Y |
| Multi Valuation | 1Y, 5Y, 10Y, 15Y |
| NTM PE & Price to Sales | 1Y, 5Y, 10Y, 15Y |
| Price to Book | 1Y, 5Y, 10Y, 15Y |
| Price to Cash Flow | 1Y, 5Y, 10Y, 15Y |
| Price Earnings | 1Y, 5Y, 10Y, 15Y |
| Price Earnings-FY1 | 1Y, 5Y, 10Y, 15Y |
| Price Earnings-FY2 | 1Y, 5Y, 10Y, 15Y |
| Price to Earnings - NTM | 1Y, 5Y, 10Y, 15Y |
| Price to Sales | 1Y, 5Y, 10Y, 15Y |
| Dividend Yield - Relative | 1Y, 5Y, 10Y, 15Y |
| Enterprise Value to EBITDA - Relative | 1Y, 5Y, 10Y, 15Y |
| Enterprise Value to Sales - Relative | 1Y, 5Y, 10Y, 15Y |
| Multi Valuation - Relative | 1Y, 5Y, 10Y, 15Y |
| Price to Book - Relative | 1Y, 5Y, 10Y, 15Y |
| Price to Cash Flow - Relative | 1Y, 5Y, 10Y, 15Y |
| Price to Earnings - FY1 - Relative | 1Y, 5Y, 10Y, 15Y |
| Price to Earnings - FY2 - Relative | 1Y, 5Y, 10Y, 15Y |

| Price to Earnings - NTM - Relative | 1Y, 5Y, 10Y, 15Y |
|---|---|
| Price to Earnings - Relative | 1Y, 5Y, 10Y, 15Y |
| Price to Sales - Relative | 1Y, 5Y, 10Y, 15Y |
| **Estimates Charts** | |
| FY1 Estimates | LATEST_AVAILABLE |
| FY2 Estimates | LATEST_AVAILABLE |
| FY1 Details | LATEST_AVAILABLE |
| FY2 Details | LATEST_AVAILABLE |
| **Financial Charts** | |
| Balance Sheet-Common Size | LATEST_AVAILABLE |
| Income Statement-Common Size | LATEST_AVAILABLE |
| Net Inc. & CF from Operations | 5Y, 10Y, 15Y |
| Sales & Price to sales | 5Y, 10Y, 15Y |

## 6.5   Time zone for pagination

| Time Zone | Description |
|---|---|
| EDT | Eastern Standard Time (North America) |
| GMT | Greenwich Mean Time (Europe/London) |
| CET | Central European Time (Europe) |
| JST | Japan Standard Time (Asia/Tokyo) |

### 6.6    JSON for all the reports supported by Public Companies

```json
1.  {
2.      "book_name": "BB Public Company Book",
3.      "ticker": "JPM-US",
4.      "pagination": {
5.              "cover": true,
6.              "divider": true,
7.              "toc": true,
8.              "footer": true,
9.              "timestamp": true,
10.             "timezone": "EDT"
11.
12.
13.     },
14.     "content": [
15.             {
16.                     "section_id": "COMPANY_OVERVIEW",
17.                     "reports": [
18.
19.                             "COMPANY_SNAPSHOT",
20.                             "COMPANY_SNAPSHOT_IB",
21.                             "COMPANY_SNAPSHOT_IM",
22.                             "ENTITY_STRUCTURE",
23.                             "EVENT_CALENDAR",
24.                             "SUPPLY_CHAIN",
25.                             "CAPITAL_STRUCTURE",
26.                             "GEO_REV",
27.                             "RBICS_REV",
28.                             "ESG"
29.                     ]
30.             },
31.             {
32.                     "section_id": "COMPANY_GUIDE_OVERVIEW",
33.                     "reports": [
34.                             "PROFILE",
35.                             "KEY_ITEMS",
36.                             "PRICE_VOLUME",
37.                             "DIVIDEND_FOCUS",
38.                             "EVENT_CALENDAR",
39.                             "ENTERPRISE_VALUE",
40.                             "INDUSTRY_METRICS_SUMMARY",
41.                             "PENSION_SUMMARY",
42.                             "STREETACCOUNT_NEWS",
43.                             "KEY_ESTIMATES",
44.                             "CORPORATE_INFORMATION",
45.                             "OWNERSHIP_SUMMARY",
46.                             "TOP_HOLDERS"
47.                     ]
48.             },
49.             {
50.                     "section_id": "COMPANY_GUIDE_SALES_EARNINGS",
51.                     "reports": [
52.                             "SEGMENT_SNAPSHOT",
53.                             "TARGETS_RATINGS",
54.                             "EST_GROWTH",
55.                             "SURPRISE",
56.                             "CONSENSUS_OUTLOOK",
57.                             "SEGMENTS_LT_ESTIMATES",
58.                             "GUIDANCE_HISTORY",
59.                             "EST_TABLES",
60.                             "CONSENSUS_TREND_SALES",
61.                             "BROKER_DETAILS_SALES",
62.                             "BROKER_REVISIONS_SALES",
63.                             "EST_TABLES_EPS",
64.                             "CONSENSUS_TREND_EPS",
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76.                              "VALUATION_MULTIPLES"
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81.                      "reports": [
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83.                              "PROFITABILITY_PEERS",
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85.                              "ALTMAN_ZSCORE",
86.                              "CDS_CURVE",
87.                              "DCS_SUMMARY",
88.                              "DEBT_SENIORITY_BREAKDOWN",
89.                              "CREDIT_PEERS",
90.                              "DUPONT_ANALYSIS",
91.                              "DUPONT_PEERS"
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96.                      "reports": [
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98.                              "INCOME_STATEMENT_GROWTH",
99.                              "BALANCE_SHEET",
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101.                             "CASH_FLOW",
102.                             "OP_METRICS"
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127.                             "CASH_FLOW_STATEMENT",
128.                             "RATIOS",
129.                             "BUSINESS_SEGMENTS",
130.                             "PENSION",
131.                             "GEOGRAPHIC_SEGMENTS",
132.                             "LOANS_DEPOSITS",
133.                             "REGULATORY_CAPITAL",
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136.                             "ASSET_QUALITY"
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149.                             "ESTIMATE_SUMMARY",
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152.                              "SURPRISE_HISTORY",
153.                              "BROKER_OUTLOOK",
154.                              "TARGETS_RATINGS",
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171.                              "LIQUIDITY_DETAIL"
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174.              {
175.                      "section_id": "TRANSACTIONS_MNA_SUMMARY",
176.                      "reports": [
177.                              "MNA_SUMMARY_REPORT"
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185.                                      "report_count": 3
186.                              }
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190.                      "section_id": "TRANSACTIONS_SOURCE_OF_CAPITAL",
191.                      "reports": [
192.                              "SOC"
193.                      ]
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196.                      "section_id": "SN_STREETACCOUNT",
197.                      "reports": [
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200.                                      "report_count": 3
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218.                                      "report_count": 3
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223.                      "section_id": "IRN",
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233.                   "reports": [
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236.                           "report_count": 1
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242.                   "reports": [
243.                       {
244.                           "report_id": "LATEST_INTERIMS",
245.                           "report_count": 1
246.                       }
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249.               {
250.                   "section_id": "FILINGS_CORPORATE_RELEASES",
251.                   "reports": [
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253.                           "report_id": "LATEST_CORPORATE_RELEASE",
254.                           "report_count": 1
255.                       }
256.                   ]
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258.               {
259.                   "section_id": "FILINGS_PROSPECTUSES",
260.                   "reports": [
261.                       {
262.                           "report_id": "LATEST_PROSPECTUS",
263.                           "report_count": 1
264.                       }
265.                   ]
266.               },
267.               {
268.                   "section_id": "FILINGS_MNA_RELATED",
269.                   "reports": [
270.                       {
271.                           "report_id": "LATEST_MNA_RELATED",
272.                           "report_count": 1
273.                       }
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280.                           "report_id": "LATEST_OWNERSHIP",
281.                           "report_count": 1
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296.                   "reports": [
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298.                           "report_id": "LATEST_MNA_DEAL",
299.                           "report_count": 1
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314.                          "reports": [
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322.                          "section_id": "KEY_EXIHIBITS_MERGERS_ACQUISITIONS",
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325.                                          "report_id": "LATEST_MERGER_AND_ACQUISITION",
326.                                          "report_count": 1
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341.                          "reports": [
342.                                  {
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344.                                          "report_count": 1
345.                                  }
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350.                          "reports": [
351.                                  {
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353.                                          "report_count": 1
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359.                          "reports": [
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368.                          "reports": [
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370.                                          "report_id": "LATEST_INITIATING_COVERAGE_REPORT",
371.                                          "report_count": 1
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376.                          "section_id": "BROKER_RESEARCH_FAVOURITE_BROKER",
377.                          "reports": [
378.                                  {
379.                                          "report_id": "LATEST_FAVOURITE_BROKER_REPORT",
380.                                          "report_count": 1
381.                                  }
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386.                    "reports": [
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389.                                    "report_count": 1
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394.                    "section_id": "TNS_TRANSCRIPTS",
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397.                                    "report_id": "LATEST_TRANSCRIPTS",
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407.                                    "report_count": 1
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413.                    "reports": [
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415.                    ]
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421.                        "CORPORATE_GOVERNANCE_PROFILE"
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432.                                    "report_id": "PRICE_VOLUME_CHART",
433.                                    "period": "6M"
434.                            },
435.                            {
436.                                    "report_id": "PRICE_AND_RELATIVE_STRENGTH",
437.                                    "period": "5Y"
438.                            }
439.                    ]
440.            },
441.            {
442.                    "section_id": "VALUATION_CHARTS",
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446.                                    "period": "1Y"
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450.                                    "period": "5Y"
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452.                            {
453.                                    "report_id": "ENTERPRISE_VALUE_TO_SALES",
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456.                            {
457.                                    "report_id": "MULTI_VALUATION",
458.                                    "period": "15Y"
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465.                            "report_id": "PRICE_TO_BOOK",
466.                            "period": "1Y"
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468.                    {
469.                            "report_id": "PRICE_TO_CASH_FLOW",
470.                            "period": "5Y"
471.                    },
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473.                            "report_id": "PRICE_EARNINGS",
474.                            "period": "5Y"
475.                    },
476.                    {
477.                            "report_id": "PRICE_EARNINGS_FY1",
478.                            "period": "10Y"
479.                    },
480.                    {
481.                            "report_id": "PRICE_EARNINGS_FY2",
482.                            "period": "10Y"
483.                    },
484.                    {
485.                            "report_id": "PRICE_TO_EARNINGS_NTM",
486.                            "period": "15Y"
487.                    },
488.                    {
489.                            "report_id": "PRICE_TO_SALES",
490.                            "period": "10Y"
491.                    },
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493.                            "report_id": "DIVIDEND_YIELD_RELATIVE",
494.                            "period": "15Y"
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496.                    {
497.                            "report_id": "ENTERPRISE_VALUE_TO_EBITDA_RELATIVE",
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501.                            "report_id": "ENTERPRISE_VALUE_TO_SALES_RELATIVE",
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505.                            "report_id": "MULTI_VALUATION_RELATIVE",
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510.                            "period": "1Y"
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514.                            "period": "15Y"
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518.                            "period": "10Y"
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520.                    {
521.                            "report_id": "PRICE_TO_EARNINGS_FY2_RELATIVE",
522.                            "period": "1Y"
523.                    },
524.                    {
525.                            "report_id": "PRICE_TO_EARNINGS_NTM_RELATIVE",
526.                            "period": "5Y"
527.                    },
528.                    {
529.                            "report_id": "PRICE_TO_EARNINGS_RELATIVE",
530.                            "period": "15Y"
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532.                    {
533.                            "report_id": "PRICE_TO_SALES_RELATIVE",
534.                            "period": "10Y"
535.                    }
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544.                          },
545.                          {
546.                               "report_id": "FY2_ESTIMATES",
547.                               "period": "LATEST_AVAILABLE"
548.                          },
549.                          {
550.                               "report_id": "FY1_DETAILS",
551.                               "period": "LATEST_AVAILABLE"
552.                          },
553.                          {
554.                               "report_id": "FY2_DETAILS",
555.                               "period": "LATEST_AVAILABLE"
556.                          }
557.                     ]
558.                },
559.                {
560.                     "section_id": "FINANCIAL_CHARTS",
561.                     "reports": [
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563.                               "report_id": "BALANCE_SHEET_COMMON_SIZE",
564.                               "period": "LATEST_AVAILABLE"
565.                          },
566.                          {
567.                               "report_id": "INCOME_STATEMENT_COMMON_SIZE",
568.                               "period": "LATEST_AVAILABLE"
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570.                          {
571.                               "report_id": "NET_INC_AND_CF_FROM_OPERATIONS",
572.                               "period": "5Y"
573.                          },
574.                          {
575.                               "report_id": "SALES_AND_PRICE_TO_SALES",
576.                               "period": "10Y"
577.                          }
578.                     ]
579.                },
580.                {
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582.                     "reports": [
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584.                               "RATIO_ANALYSIS"
585.                     ]
586.                },
587.                {
588.                     "section_id": "INDUSTRY_REPORTS_ESTIMATES",
589.                     "reports": [
590.                               "ALL_ESTIMATES"
591.                     ]
592.                }'
593.                {
594.                     "section_id": "SIGNALS",
595.                     "reports": [
596.                               "SIGNALS"
597.                     ]
598.                }
599.     ]
600.}
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## 6.7   JSON for all the reports supported by Private Companies

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3.       "ticker": "05JDKC-E",
4.       "pagination": {
5.           "cover": true,
6.           "divider": true,
7.           "toc": true
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8.        },
9.      "content": [
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12.         "reports": [
13.           "PVT_COMPANY_SNAPSHOT",
14.           "ENTITY_STRUCTURE",
15.           "ESG"
16.         ]
17.       },
18.       {
19.         "section_id": "FINANCIALS",
20.         "reports": [
21.           "KEY_ITEMS"
22.         ]
23.       },
24.       {
25.         "section_id": "CREDIT",
26.         "reports": [
27.           "DCS_OVERVIEW",
28.           "DCS_DETAIL",
29.           "LIQUIDITY_DETAIL"
30.         ]
31.       },
32.       {
33.         "section_id": "TRANSACTIONS_MNA_SUMMARY",
34.         "reports": [
35.           "MNA_SUMMARY_REPORT"
36.         ]
37.       },
38.       {
39.         "section_id": "TRANSACTIONS_DETAILS",
40.         "reports": [
41.           {
42.             "report_id": "LATEST_DEALS",
43.             "report_count": 3
44.           }
45.         ]
46.       },
47.       {
48.         "section_id": "TRANSACTIONS_PEVC_INVESTORS",
49.         "reports": [
50.           "PEVC_INVESTORS"
51.         ]
52.       },
53.       {
54.         "section_id": "SN_ALL_NEWS",
55.         "reports": [
56.           {
57.             "report_id": "LATEST_ARTICLE",
58.             "report_count": 3
59.           }
60.         ]
61.       },
62.       {
63.         "section_id": "IRN",
64.         "reports": [
65.           {
66.             "report_id": "LATEST_NOTES",
67.             "report_count": 3
68.           }
69.         ]
70.       },
71.       {
72.         "section_id": "FILINGS_ANNUALS",
73.         "reports": [
74.           {
75.             "report_id": "LATEST_ANNUALS",
76.             "report_count": 5
77.           }
78.         ]
79.       },
80.       {
81.         "section_id": "FILINGS_INTERIMS",
82.         "reports": [
83.           {
84.             "report_id": "LATEST_INTERIMS",
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85.                  "report_count": 5
86.               }
87.             ]
88.          },
89.          {
90.             "section_id": "FILINGS_CORPORATE_RELEASES",
91.             "reports": [
92.               {
93.                  "report_id": "LATEST_CORPORATE_RELEASE",
94.                  "report_count": 5
95.               }
96.             ]
97.          },
98.          {
99.             "section_id": "FILINGS_PROSPECTUSES",
100.            "reports": [
101.              {
102.                 "report_id": "LATEST_PROSPECTUS",
103.                 "report_count": 5
104.              }
105.            ]
106.         },
107.         {
108.            "section_id": "FILINGS_MNA_RELATED",
109.            "reports": [
110.              {
111.                 "report_id": "LATEST_MNA_RELATED",
112.                 "report_count": 5
113.              }
114.            ]
115.         },
116.         {
117.            "section_id": "FILINGS_OWNERSHIP",
118.            "reports": [
119.              {
120.                 "report_id": "LATEST_OWNERSHIP",
121.                 "report_count": 5
122.              }
123.            ]
124.         },
125.         {
126.            "section_id": "FILINGS_PROXIES",
127.            "reports": [
128.              {
129.                 "report_id": "LATEST_PROXIES",
130.                 "report_count": 5
131.              }
132.            ]
133.         },
134.         {
135.            "section_id": "FILINGS_MNA_DEALS",
136.            "reports": [
137.              {
138.                 "report_id": "LATEST_MNA_DEAL",
139.                 "report_count": 5
140.              }
141.            ]
142.         },
143.         {
144.            "section_id": "FILINGS_ALL",
145.            "reports": [
146.              {
147.                 "report_id": "LATEST_FILINGS",
148.                 "report_count": 5
149.              }
150.            ]
151.         },
152.         {
153.            "section_id": "MNG_MANAGEMENT_AND_BOARD",
154.            "reports": [
155.                   "MANAGEMENT_AND_BOARD"
156.               ]
157.         }
158.     ]
159. }
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## 6.8    JSON for all the reports supported by Private Equities

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3.      "ticker": "061098-E",
4.      "pagination": {
5.        "cover": true,
6.        "divider": true,
7.        "toc": true
8.      },
9.      "content": [
10.       {
11.         "section_id": "COMPANY_PROFILE",
12.         "reports": [
13.           "PVT_EQUITY_SNAPSHOT"
14.         ]
15.       },
16.       {
17.         "section_id": "FINANCIALS",
18.         "reports": [
19.           "KEY_ITEMS"
20.         ]
21.       },
22.       {
23.         "section_id": "TRANSACTIONS_MNA_SUMMARY",
24.         "reports": [
25.           "MNA_SUMMARY_REPORT"
26.         ]
27.       },
28.       {
29.         "section_id": "TRANSACTIONS_DETAILS",
30.         "reports": [
31.           {
32.             "report_id": "LATEST_DEALS",
33.             "report_count": 3
34.           }
35.         ]
36.       },
37.       {
38.         "section_id": "TRANSACTIONS_PEVC_INVESTMENTS",
39.         "reports": [
40.           "PEVC_INVESTMENTS"
41.         ]
42.       },
43.       {
44.         "section_id": "SN_ALL_NEWS",
45.         "reports": [
46.           {
47.             "report_id": "LATEST_ARTICLE",
48.             "report_count": 3
49.           }
50.         ]
51.       },
52.       {
53.         "section_id": "IRN",
54.         "reports": [
55.           {
56.             "report_id": "LATEST_NOTES",
57.             "report_count": 3
58.           }
59.         ]
60.       },
61.       {
62.         "section_id": "FILINGS_ANNUALS",
63.         "reports": [
64.           {
65.             "report_id": "LATEST_ANNUALS",
66.             "report_count": 5
67.           }
68.         ]
69.       },
70.       {
71.         "section_id": "FILINGS_INTERIMS",
72.         "reports": [
73.           {
```

```
74.            "report_id": "LATEST_INTERIMS",
75.            "report_count": 5
76.          }
77.        ]
78.      },
79.      {
80.        "section_id": "FILINGS_CORPORATE_RELEASES",
81.        "reports": [
82.          {
83.            "report_id": "LATEST_CORPORATE_RELEASE",
84.            "report_count": 5
85.          }
86.        ]
87.      },
88.      {
89.        "section_id": "FILINGS_PROSPECTUSES",
90.        "reports": [
91.          {
92.            "report_id": "LATEST_PROSPECTUS",
93.            "report_count": 5
94.          }
95.        ]
96.      },
97.      {
98.        "section_id": "FILINGS_MNA_RELATED",
99.        "reports": [
100.          {
101.            "report_id": "LATEST_MNA_RELATED",
102.            "report_count": 5
103.          }
104.        ]
105.      },
106.      {
107.        "section_id": "FILINGS_OWNERSHIP",
108.        "reports": [
109.          {
110.            "report_id": "LATEST_OWNERSHIP",
111.            "report_count": 5
112.          }
113.        ]
114.      },
115.      {
116.        "section_id": "FILINGS_PROXIES",
117.        "reports": [
118.          {
119.            "report_id": "LATEST_PROXIES",
120.            "report_count": 5
121.          }
122.        ]
123.      },
124.      {
125.        "section_id": "FILINGS_MNA_DEALS",
126.        "reports": [
127.          {
128.            "report_id": "LATEST_MNA_DEAL",
129.            "report_count": 5
130.          }
131.        ]
132.      },
133.      {
134.        "section_id": "FILINGS_ALL",
135.        "reports": [
136.          {
137.            "report_id": "LATEST_FILINGS",
138.            "report_count": 5
139.          }
140.        ]
141.      }
142.    ]
143.}
```

### 6.9 JSON for all the reports supported by Fixed Income securities

```
1.  {
2.    "book_name": "BB Fixed Income Book",
3.    "ticker": "82460N2A7",
4.    "pagination": {
5.      "cover": true,
6.      "divider": true,
7.      "toc": true
8.    },
9.    "content": [
10.     {
11.       "section_id": "OVERVIEW",
12.       "reports": [
13.         "SECURITY_OVERVIEW"
14.       ]
15.     }
16.   ]
17. }
```

### 6.10 JSON for all reports supported by Mutual Fund

```
1.  {
2.    "book_name": "BB Mutual Fund Book",
3.    "ticker": "USTRX-US",
4.    "pagination": {
5.      "cover": true,
6.      "divider": true,
7.      "toc": true
8.    },
9.    "content": [
10.     {
11.       "section_id": "OVERVIEW",
12.       "reports": [
13.         "FUND_OVERVIEW"
14.       ]
15.     },
16.     {
17.       "section_id": "SN_ALL_NEWS",
18.       "reports": [
19.         {
20.           "report_id": "LATEST_ARTICLE",
21.           "report_count": 3
22.         }
23.       ]
24.     },
25.     {
26.       "section_id": "PRICES",
27.       "reports": [
28.        "PRICE_SUMMARY",
29.        "CORPORATE_ACTIONS",
30.        "SEASONALITY_ANALYSIS"
31.       ]
32.     },
33.     {
34.       "section_id": "HOLDINGS",
35.       "reports": [
36.        "HOLDINGS_SUMMARY",
37.        "HOLDINGS_ACTIVITY",
38.        "PORTFOLIO_TREND"
39.       ]
40.     }
41.   ]
42. }
```

## 6.11   JSON for all reports supported by ETF

```
43.  {
44.    "book_name": "BB ETF Book",
45.    "ticker": "ETFMIB-IT",
46.    "pagination": {
47.      "cover": true,
48.      "divider": true,
49.      "toc": true
50.      },
51.    "content": [
52.      {
53.        "section_id": "COMPANY_OVERVIEW",
54.        "reports": [
55.          "GEO_REV"
56.        ]
57.      },
58.      {
59.        "section_id": "OVERVIEW",
60.        "reports": [
61.            "FUND_OVERVIEW"
62.        ]
63.      },
64.      {
65.        "section_id": "PRICES",
66.        "reports": [
67.          "PRICE_SUMMARY",
68.          "CORPORATE_ACTIONS",
69.          "SEASONALITY_ANALYSIS"
70.        ]
71.      },
72.      {
73.        "section_id": "FINANCIALS",
74.        "reports": [
75.          "KEY_ITEMS",
76.          "RATIOS"
77.        ]
78.      },
79.      {
80.        "section_id": "VALUATION",
81.        "reports": [
82.          "COMPS"
83.        ]
84.      },
85.      {
86.        "section_id": "ESTIMATES",
87.        "reports": [
88.          "ALL_ESTIMATES",
89.          "ESTIMATE_HISTORY",
90.          "TARGETS_RATINGS"
91.        ]
92.      },
93.      {
94.        "section_id": "OWNERSHIP",
95.        "reports": [
96.          "OWNERSHIP_SUMMARY",
97.          "OWNERSHIP_ACTIVITY"
98.        ]
99.      },
100.     {
101.       "section_id": "SN_ALL_NEWS",
102.       "reports": [
103.         {
104.           "report_id": "LATEST_ARTICLE",
105.           "report_count": 3
106.         }
107.       ]
108.     },
109.     {
110.       "section_id": "PRICE_CHARTS",
111.       "reports": [
112.         {
113.           "report_id": "PRICE_CHART",
114.           "period": "3M"
115.         },
```

```
116.          {
117.            "report_id": "PRICE_VOLUME_CHART",
118.            "period": "6M"
119.          },
120.          {
121.            "report_id": "PRICE_AND_RELATIVE_STRENGTH",
122.            "period": "5Y"
123.          }
124.        ]
125.      },
126.      {
127.        "section_id": "VALUATION_CHARTS",
128.        "reports": [
129.          {
130.            "report_id": "PRICE_EARNINGS",
131.            "period": "5Y"
132.          },
133.          {
134.            "report_id": "PRICE_EARNINGS_FY1",
135.            "period": "10Y"
136.          },
137.          {
138.            "report_id": "PRICE_EARNINGS_FY2",
139.            "period": "10Y"
140.          },
141.          {
142.            "report_id": "ENTERPRISE_VALUE_TO_EBITDA",
143.            "period": "5Y"
144.          },
145.          {
146.            "report_id": "MULTI_VALUATION",
147.            "period": "15Y"
148.          }
149.        ]
150. }
```

## 6.12    JSON for all reports supported by Holders

```
1.   {
2.       "book_name": "Institutional Overview",
3.       "ticker": "F5043550",
4.       "pagination": {
5.           "cover": true,
6.           "divider": true,
7.           "toc": true
8.       },
9.       "content": [
10.          {
11.              "section_id": "INSTITUTION_PROFILE",
12.              "reports": [
13.                  "INSTITUTION_OVERVIEW"
14.              ]
15.          }
16.      ]
17. }
```

## 6.13    JSON for book with custom documents

```
1.   {
2.       "book_name": "Company Book with proprietary data included",
3.       "ticker": "IBM-US",
4.       "pagination": {
5.         "cover": true,
6.         "divider": true,
7.         "toc": true
8.       },
9.       "content": [
10.        {
11.          "section_id": "CUSTOM_DOC_SECTION",
12.          "section_name": "Own Data",
```

```
13.        "reports": [
14.           {
15.              "name": "Custom_Document_1"
16.              "file_url"
    "e0782a6ade6a4a422052e23b6e2df586d27a08ea40e1aef9f202734428c5b9ae392c132545"
17.           }
18.        ]
19.      }
20.   ]
21. }
```