ENTERPRISE: «ЛУЧШИЕ» ПРАКТИКИ

ВОЗНЕСЕНСКИЙ ДМИТРИЙ
БУРОВ ИЛЬЯ

JS/CSS/HTML В SQL

- JS не должен лежать в базе (смешение слоев)

idMenu	sBCode	sCode	sName	sURL
23307	DealClients_Delete	Menu_Context_DealClients...	Удалить	javascript:DeleteFocusedRow("{@sGridName}")
23309	Grid_ADD_Provision	Menu_Grid_ADD_Provision	Добавить провизию	javascript:ExecMenuItemClick("PopupWindow('/DealProvisionForm.aspx?IdDeal...
23311	Grid_Provision_Edit	Menu_Grid_Provision_Edit	Редактировать	javascript:ExecMenuItemClick("PopupWindow('/DealProvisionForm.aspx?Id={gr:i...
23312	Grid_Provision_Del	Menu_Grid_Provision_Del	Удалить	javascript:DeleteFocusedRow("{@sGridName}")
23313	Menu_Deal_PrintForm_Fix	Menu_Deal_PrintForm_Fix	на дату фиксации	javascript:ShowFrom('/PrintForm.aspx?report=DealTime&{QueryString}&datetime=...
23314	Menu_Deal_PrintForm_	Menu_Deal_PrintForm_Now	на текущую дату	javascript:ShowFrom('/PrintForm.aspx?report=DealTime&{QueryString}','GUIDHid...
25128	AddPropertyOperation	Menu_Grid_AddPropertyO...	Добавить свойство	javascript:ExecMenuItemClick("PopupWindow('/AddPropertyView.aspx?idObject...
25129	PropertyOperationEdit	Menu_Context_PropertyOp...	Редактировать	javascript:ExecMenuItemClick("PopupWindow('/ExtPropertyForm.aspx?idProperty...
25130	PropertyOperationDel	Menu_Context_PropertyOp...	Удалить	javascript:DeleteFocusedRow("{@sGridName}")
25134	JOU	Menu_JOU	Поиск	javascript:GoToUrl('/JournalForm.aspx?gridname=OU_list&filtername=SuspConditi...
25136	OU_MyOU_Real	Menu_OU_MyOU_Real	действующие	javascript:GoToUrl('/JournalForm.aspx?gridname=OUListMyReal')
25140	Deal_Refresh	Menu_Deal_Refresh	Обновить	javascript:GoToUrl(location.href)
27162	TransactionList	Menu_TransactionList	Просмотр проводок	javascript:ExecMenuItemClick("PopupWindow('JournalFormModal.aspx?ean={gr:...
27163	Grid_ADD_OUMonitoring	Menu_Grid_ADD_OUMonit...	Добавить	javascript:ExecMenuItemClick("PopupWindow('/SuspConditionMonForm.aspx?Id...
27164	Grid_ADD_OUDoc	Menu_Grid_ADD_OUDoc	Добавить	javascript:ExecMenuItemClick("PopupWindow('/SuspConditionDocForm.aspx?id...
27165	ADD_OU	Menu_Grid_ADD_OU	Добавить ОУ	javascript:ExecMenuItemClick("GoToUrl('/SuspConditionForm.aspx?mode=add')",...
27166	Context_PaymentDetailA...	Menu_Context_PaymentD...	Для безакцептного сп...	javascript:ExecMenuItemClick("AutoPay({gr:idDealPaymentDetail})",null,"dealpay...
27170	Grid_ADD_ClientSignato...	10201	Добавить -Меню На гр...	javascript:ExecMenuItemClick("PopupWindow('/Clients/CreditOrgFilter.aspx?grid...
27171	Grid_ADD_ClientDetail_...	10351	Добавить реквизиты -...	javascript:ExecMenuItemClick("PopupWindow('/Clients/CreditOrgFilter.aspx?grid...

JS/CSS/HTML В SQL

- JS не должен лежать в базе (смешение слоев)
- Отсутствует минификация

idMenu	sBCode	sCode	sName	sURL
23307	DealClients_Delete	Menu_Context_DealClients...	Удалить	javascript:DeleteFocusedRow("{@sGridName}")
23309	Grid_ADD_Provision	Menu_Grid_ADD_Provision	Добавить провизию	javascript:ExecMenuItemClick("PopupWindow('/DealProvisionForm.aspx?IdDeal...
23311	Grid_Provision_Edit	Menu_Grid_Provision_Edit	Редактировать	javascript:ExecMenuItemClick("PopupWindow('/DealProvisionForm.aspx?Id={gr:i...
23312	Grid_Provision_Del	Menu_Grid_Provision_Del	Удалить	javascript:DeleteFocusedRow("{@sGridName}")
23313	Menu_Deal_PrintForm_Fix	Menu_Deal_PrintForm_Fix	на дату фиксации	javascript:ShowFrom('/PrintForm.aspx?report=DealTime&{QueryString}&datetime=...
23314	Menu_Deal_PrintForm_	Menu_Deal_PrintForm_Now	на текущую дату	javascript:ShowFrom('/PrintForm.aspx?report=DealTime&{QueryString}','GUIDHid...
25128	AddPropertyOperation	Menu_Grid_AddPropertyO...	Добавить свойство	javascript:ExecMenuItemClick("PopupWindow('/AddPropertyView.aspx?idObject...
25129	PropertyOperationEdit	Menu_Context_PropertyOp...	Редактировать	javascript:ExecMenuItemClick("PopupWindow('/ExtPropertyForm.aspx?idProperty...
25130	PropertyOperationDel	Menu_Context_PropertyOp...	Удалить	javascript:DeleteFocusedRow("{@sGridName}")
25134	JOU	Menu_JOU	Поиск	javascript:GoToUrl('/JournalForm.aspx?gridname=OU_list&filtername=SuspConditi...
25136	OU_MyOU_Real	Menu_OU_MyOU_Real	действующие	javascript:GoToUrl('/JournalForm.aspx?gridname=OUListMyReal')
25140	Deal_Refresh	Menu_Deal_Refresh	Обновить	javascript:GoToUrl(location.href)
27162	TransactionList	Menu_TransactionList	Просмотр проводок	javascript:ExecMenuItemClick("PopupWindow('JournalFormModal.aspx?ean={gr:...
27163	Grid_ADD_OUMonitoring	Menu_Grid_ADD_OUMonit...	Добавить	javascript:ExecMenuItemClick("PopupWindow('/SuspConditionMonForm.aspx?Id...
27164	Grid_ADD_OUDoc	Menu_Grid_ADD_OUDoc	Добавить	javascript:ExecMenuItemClick("PopupWindow('/SuspConditionDocForm.aspx?id...
27165	ADD_OU	Menu_Grid_ADD_OU	Добавить ОУ	javascript:ExecMenuItemClick("GoToUrl('/SuspConditionForm.aspx?mode=add')",...
27166	Context_PaymentDetailA...	Menu_Context_PaymentD...	Для безакцептного сп...	javascript:ExecMenuItemClick("AutoPay({gr:idDealPaymentDetail})",null,"dealpay...
27170	Grid_ADD_ClientSignato...	10201	Добавить -Меню На гр...	javascript:ExecMenuItemClick("PopupWindow('/Clients/CreditOrgFilter.aspx?grid...
27171	Grid_ADD_ClientDetail_...	10351	Добавить реквизиты -...	javascript:ExecMenuItemClick("PopupWindow('/Clients/CreditOrgFilter.aspx?grid...

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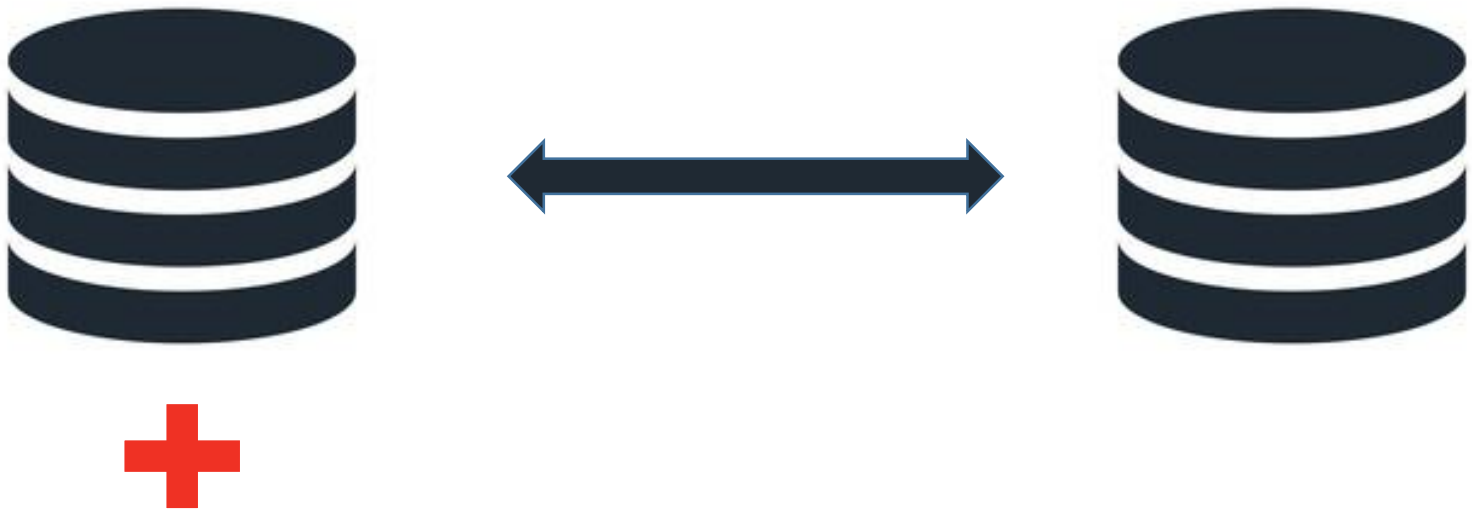
23307	DealClients_Delete	Menu_Context_DealClients...	Удалить	javascript:DeleteFocusedRow("{@sGridName}")
23309	Grid_ADD_Provision	Menu_Grid_ADD_Provision	Добавить провизию	javascript:ExecMenuItemClick("PopupWindow('/DealProvisionForm.aspx?IdDeal...
23311	Grid_Provision_Edit	Menu_Grid_Provision_Edit	Редактировать	javascript:ExecMenuItemClick("PopupWindow('/DealProvisionForm.aspx?Id={gr:i...
23312	Grid_Provision_Del	Menu_Grid_Provision_Del	Удалить	javascript:DeleteFocusedRow("{@sGridName}")
23313	Menu_Deal_PrintForm_Fix	Menu_Deal_PrintForm_Fix	на дату фиксации	javascript:ShowFrom('/PrintForm.aspx?report=DealTime&{QueryString}&datetime=...
23314	Menu_Deal_PrintForm_	Menu_Deal_PrintForm_Now	на текущую дату	javascript:ShowFrom('/PrintForm.aspx?report=DealTime&{QueryString}','GUIDHid...
25128	AddPropertyOperation	Menu_Grid_AddPropertyO...	Добавить свойство	javascript:ExecMenuItemClick("PopupWindow('/AddPropertyView.aspx?idObject...
25129	PropertyOperationEdit	Menu_Context_PropertyOp...	Редактировать	javascript:ExecMenuItemClick("PopupWindow('/ExtPropertyForm.aspx?idProperty...
25130	[illegible]	Menu_Context_PropertyOp...	Удалить	javascript:DeleteFocusedRow("{@sGridName}")
25134	[illegible]	Menu_JOU	Поиск	javascript:GoToUrl('/JournalForm.aspx?gridname=OU_list&filtername=SuspConditi...
25[illegible]6	[illegible]_MyOU_Real	Menu_OU_MyOU_Real	действующие	javascript:GoToUrl('/JournalForm.aspx?gridname=OUListMyReal')
2[illegible]	[illegible]Deal_Refresh	[illegible]Deal_Refresh	Обновить	javascript:GoToUrl(location.href)
[illegible]7162	[illegible]List	[illegible]TransactionList	Просмотр проводок	javascript:ExecMenuItemClick("PopupWindow('JournalFormModal.aspx?ean={gr:...
[illegible]3	[illegible]ADD_O[illegible]g	[illegible]rid_ADD_OUMonit...	Добавить	javascript:ExecMenuItemClick("PopupWindow('/SuspConditionMonForm.aspx?Id...
27[illegible]4	[illegible]ADD_[illegible]	[illegible]nu_Grid_ADD_OUDoc	Добавить	javascript:ExecMenuItemClick("PopupWindow('/SuspConditionDocForm.aspx?id...
27[illegible]	[illegible]_OU	[illegible]enu_Grid_ADD_OU	Добавить ОУ	javascript:ExecMenuItemClick("GoToUrl('/SuspConditionForm.aspx?mode=add')",...
27[illegible]6	[illegible]ext_PaymentDe[illegible]	Menu_Context_PaymentD...	Для безакцептного сп...	javascript:ExecMenuItemClick("AutoPay({gr:idDealPaymentDetail})",null,"dealpay...
2717[illegible]	[illegible]ADD_Client[illegible]ato[illegible]	10201	Добавить -Меню На гр...	javascript:ExecMenuItemClick("PopupWindow('/Clients/CreditOrgFilter.aspx?grid...
27171	[illegible]ADD_ClientDetail_...	10351	Добавить реквизиты -...	javascript:ExecMenuItemClick("PopupWindow('/Clients/CreditOrgFilter.aspx?grid...

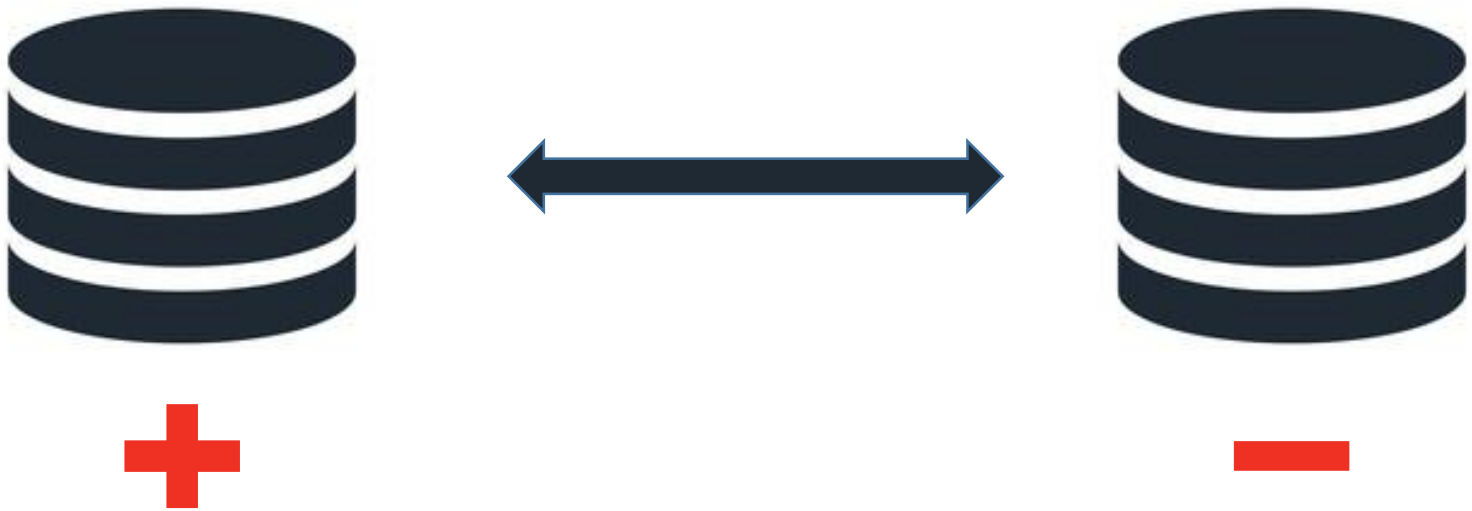
ВЗАИМОДЕЙСТВИЕ БАЗА-БАЗА

ВЗАИМОДЕЙСТВИЕ БАЗА-БАЗА



- Скорость
- ACID

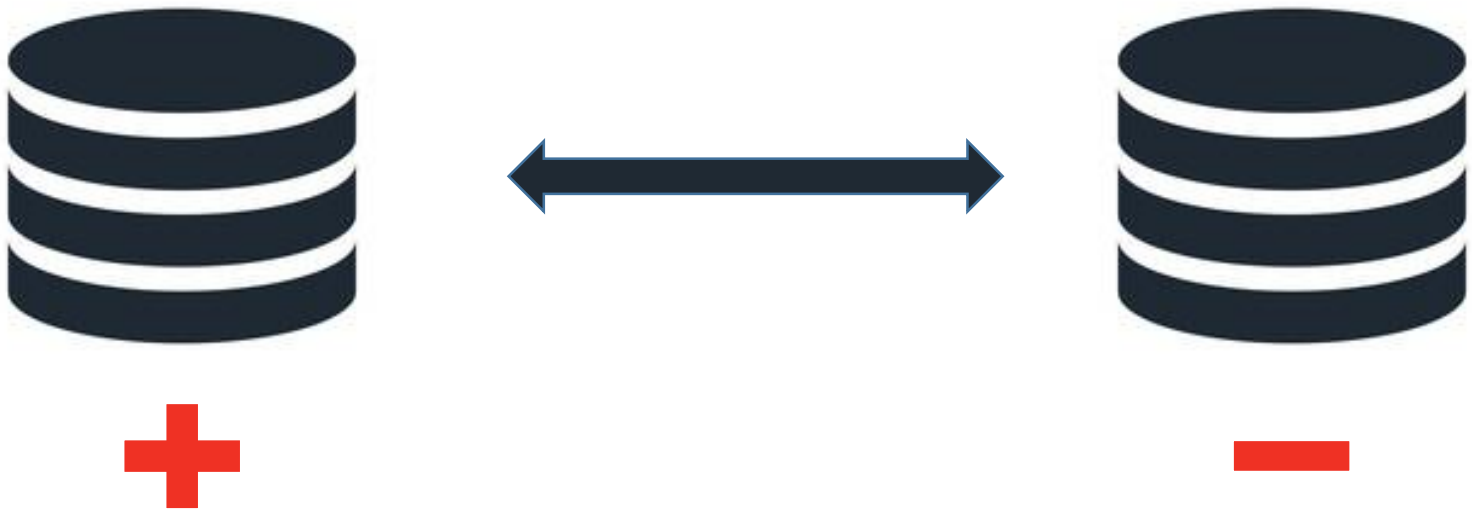
ВЗАИМОДЕЙСТВИЕ БАЗА-БАЗА



- Скорость
- ACID

- Зависимость серверов (отсутствие масштабируемости)

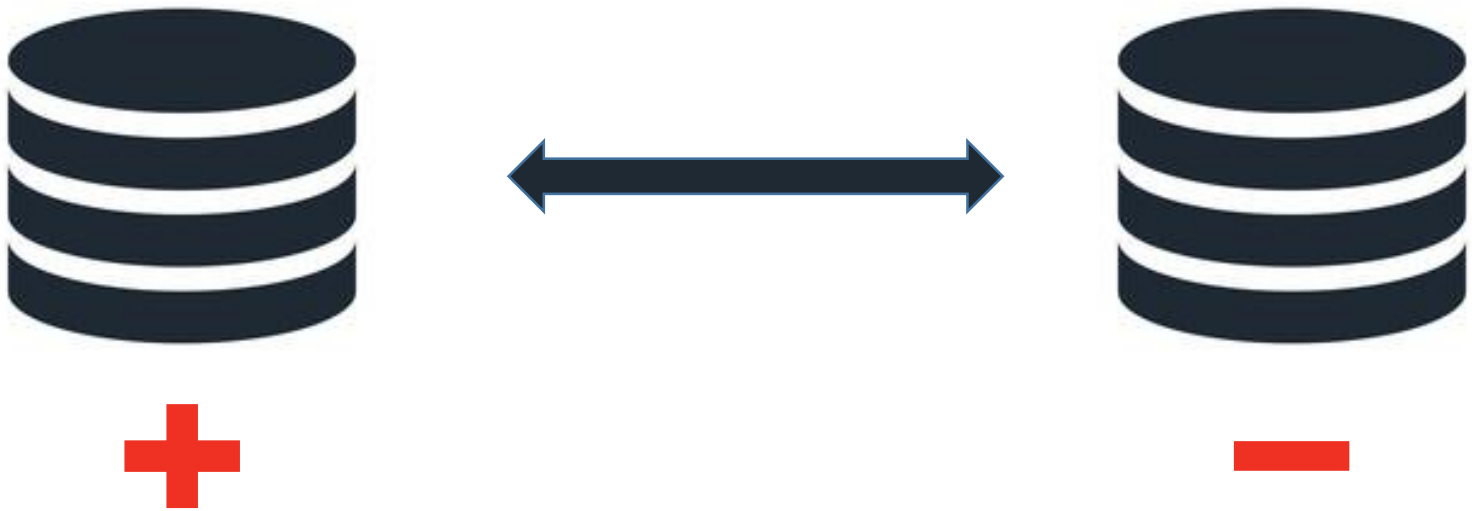
ВЗАИМОДЕЙСТВИЕ БАЗА-БАЗА



- Скорость
- ACID

- Зависимость серверов (отсутствие масштабируемости)
- Распределённые транзакции

ВЗАИМОДЕЙСТВИЕ БАЗА-БАЗА



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- Скорость
- ACID

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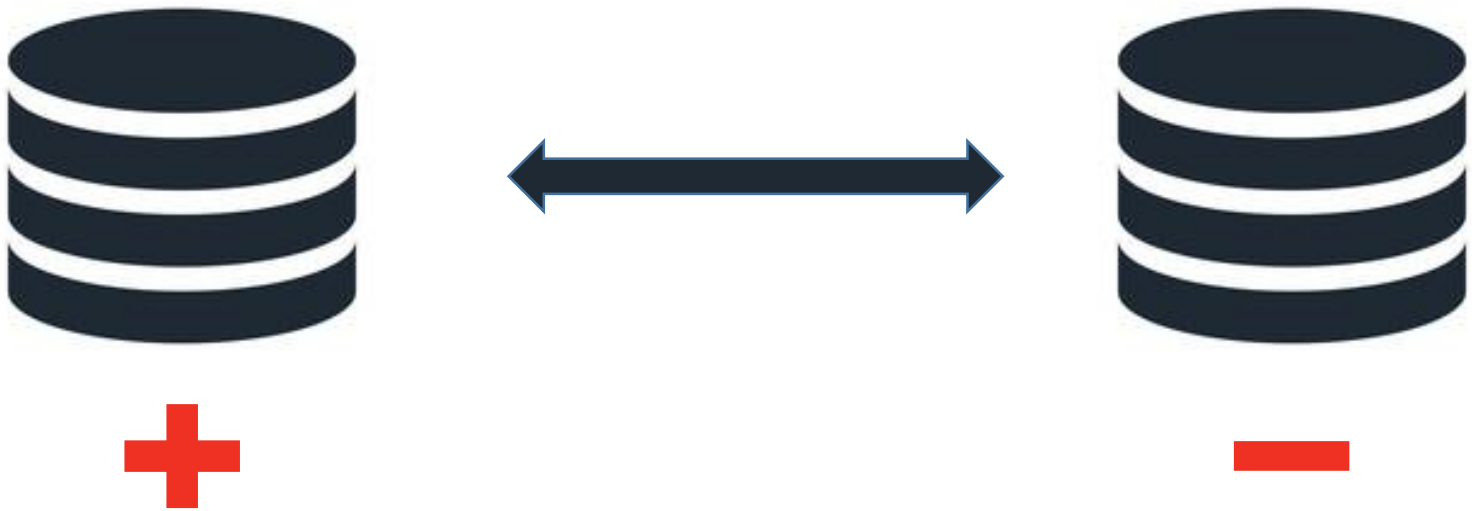
- Зависимость серверов (отсутствие масштабируемости)
- Распределённые транзакции
- Прямой доступ к схеме

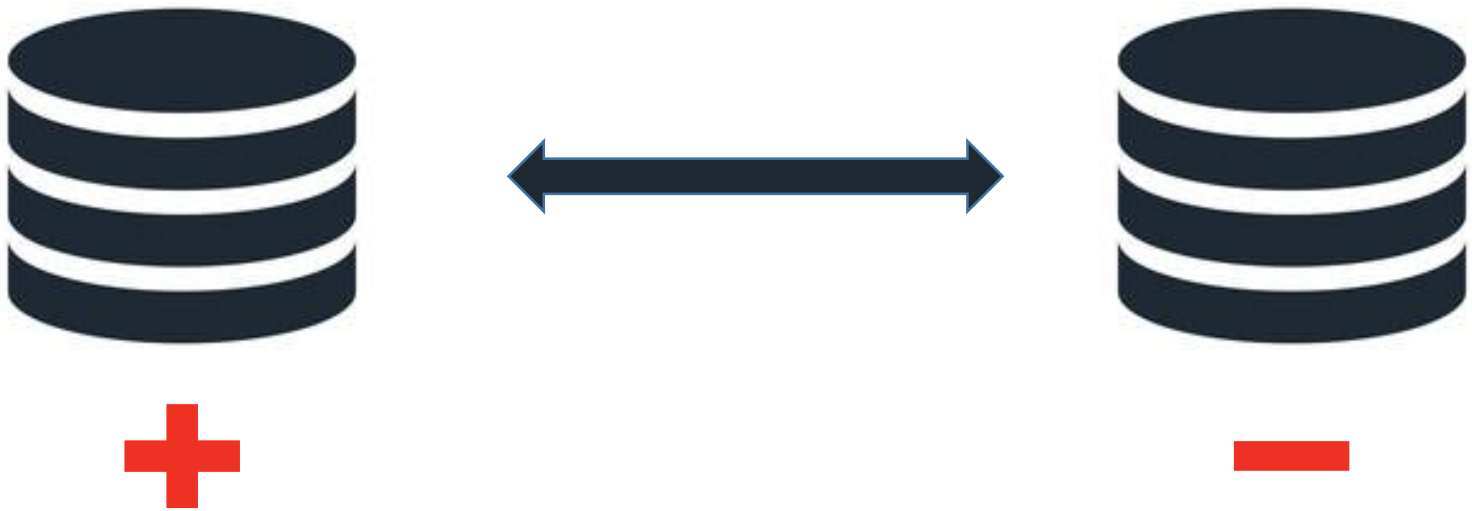
ВЗАИМОДЕЙСТВИЕ БАЗА-БАЗА



- Скорость
- ACID

- Зависимость серверов (отсутствие масштабируемости)
- Распределённые транзакции
- Прямой доступ к схеме
- Сложность тестирования

ВЗАИМОДЕЙСТВИЕ БАЗА-БАЗА



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- ACID

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- Зависимость серверов (отсутствие масштабируемости)
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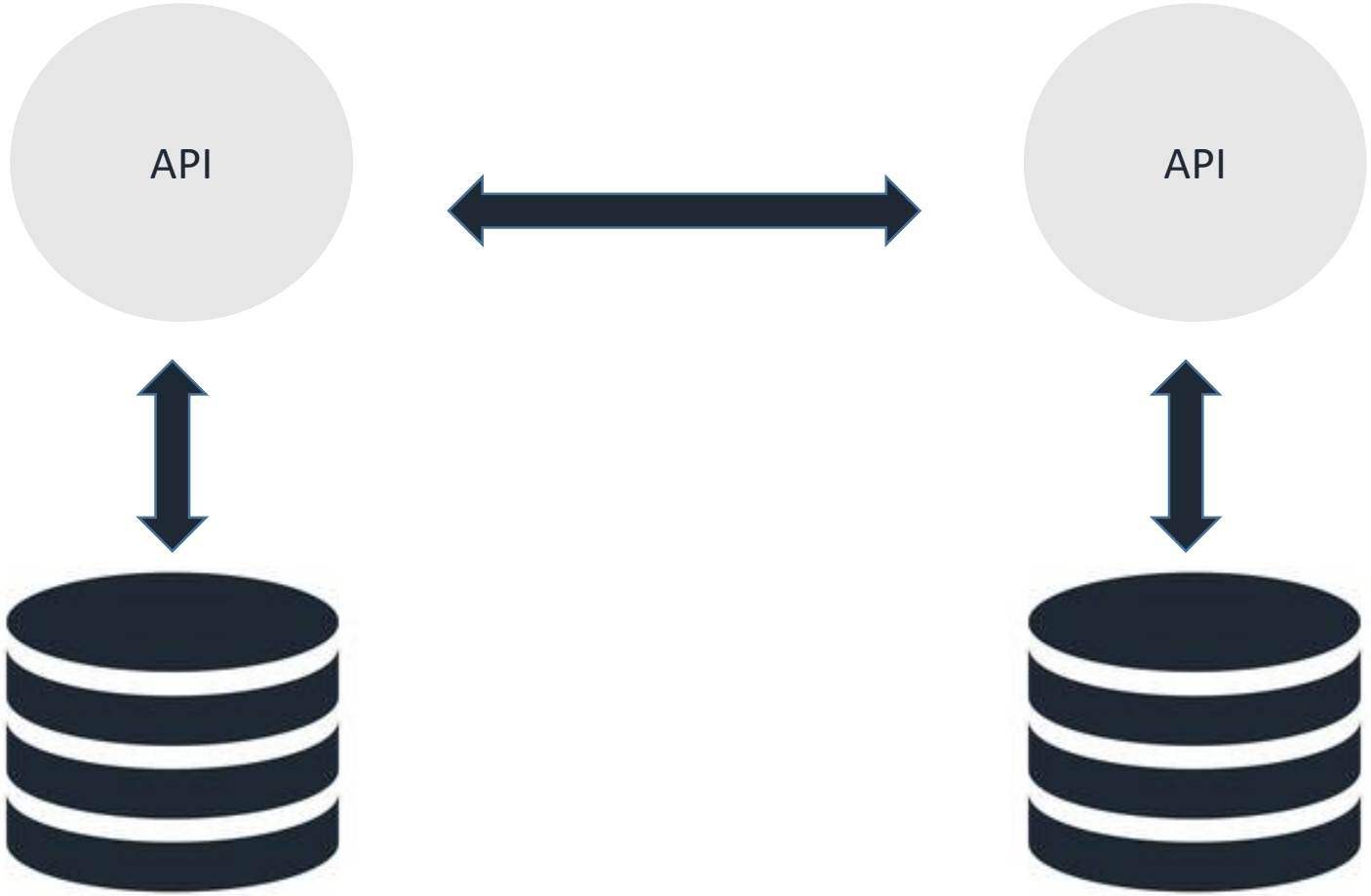
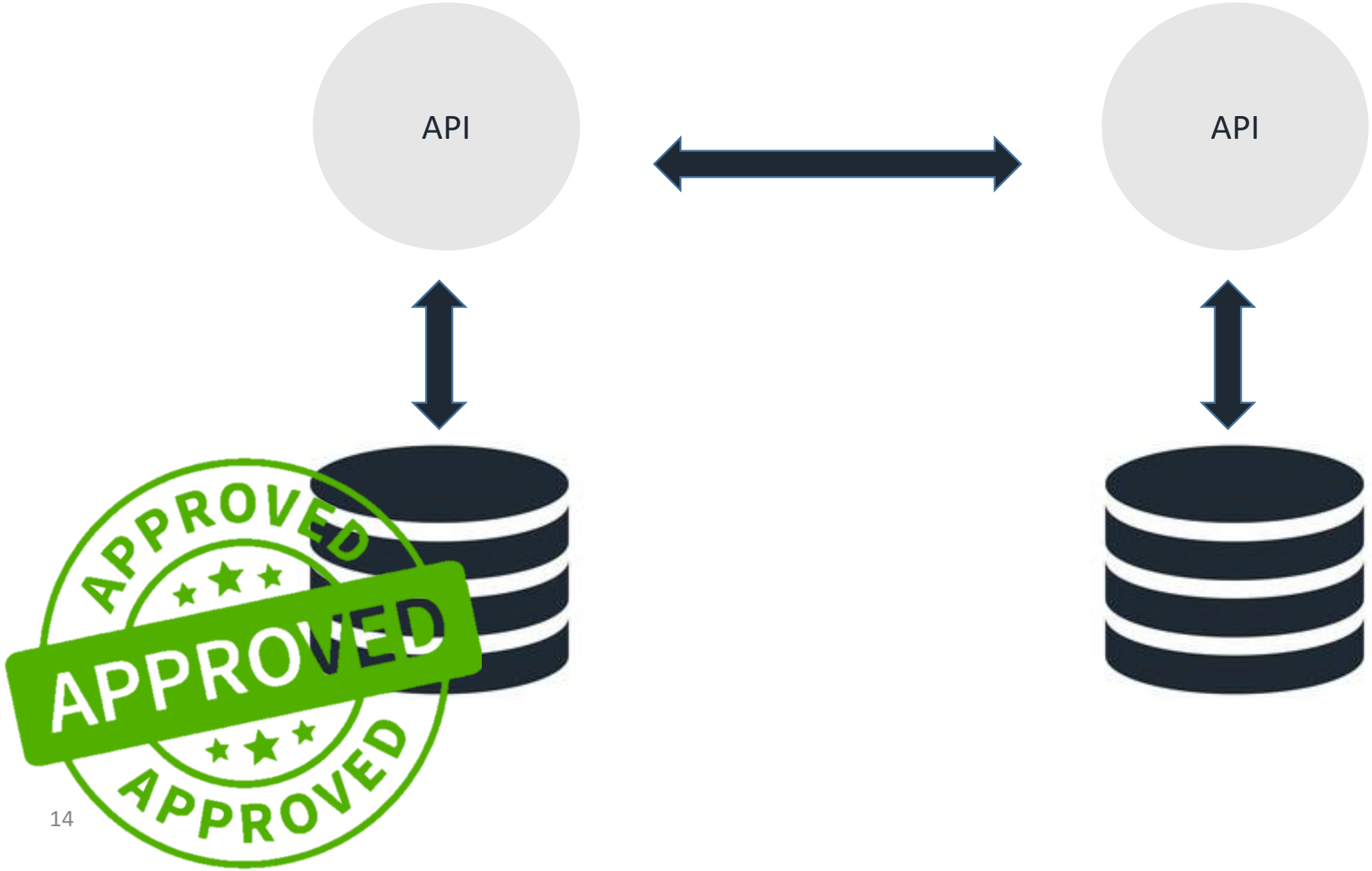
ВЗАИМОДЕЙСТВИЕ БАЗА-БАЗА

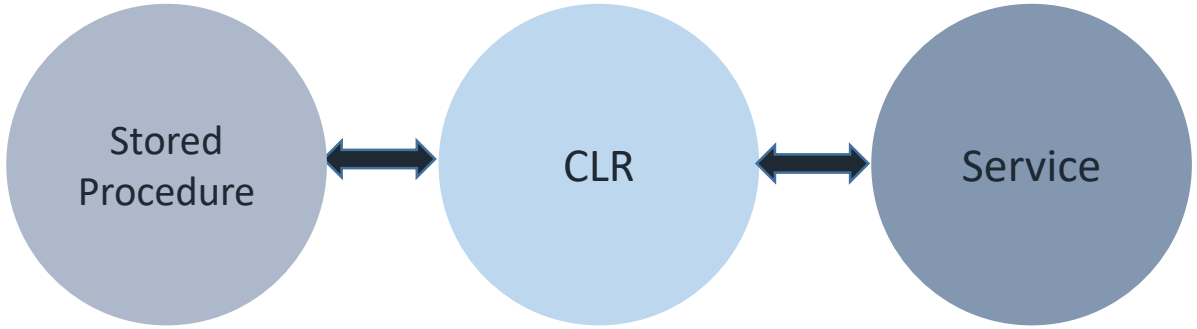
ВЗАИМОДЕЙСТВИЕ БАЗА-БАЗА



ВЗАИМОДЕЙСТВИЕ БАЗА-БАЗА



ВЫЗОВ ВЕБ СЕРВИСОВ ИЗ ХРАНИМОК



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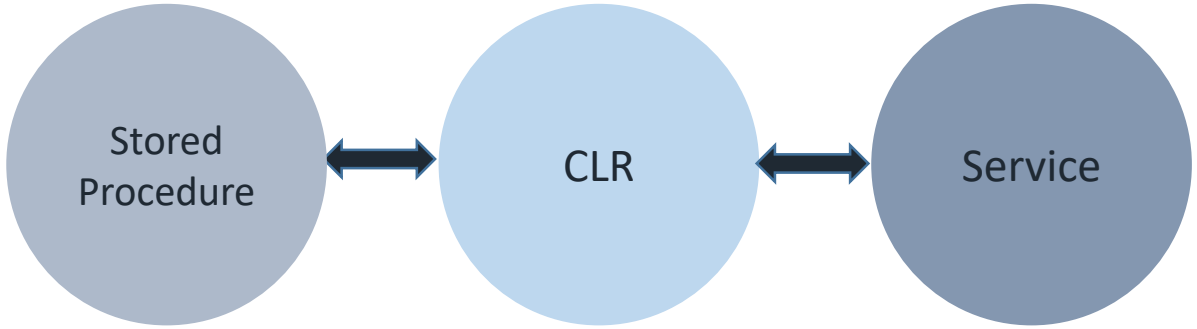
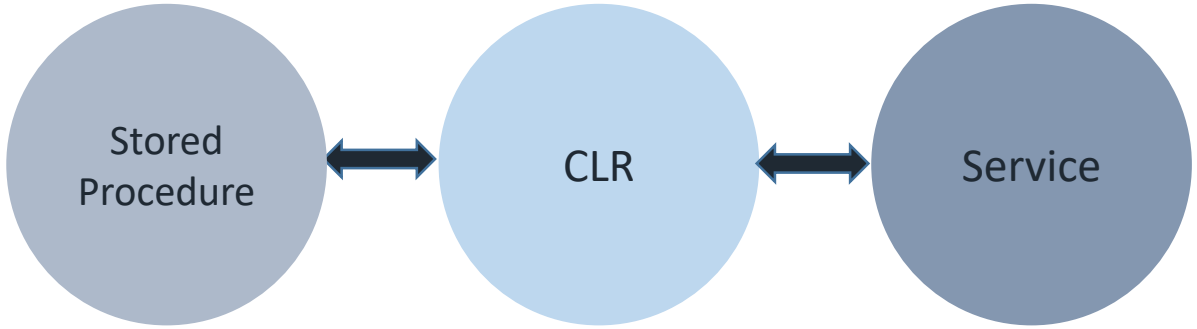


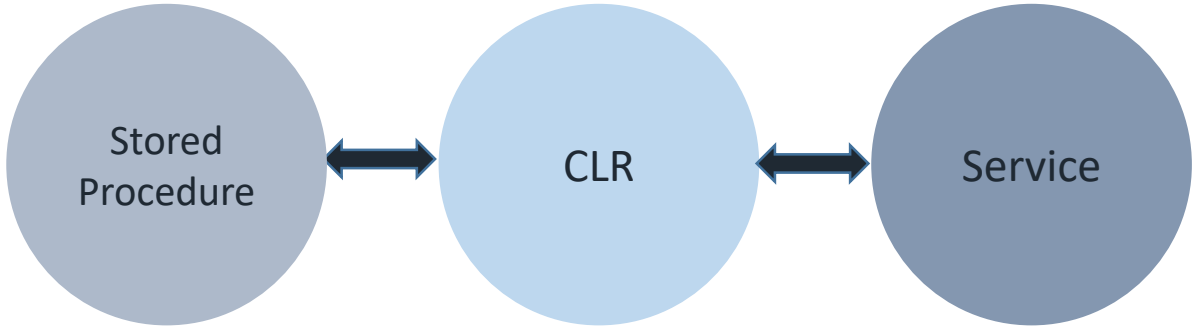
- Интеграция легаси с современными решениями

ВЫЗОВ ВЕБ СЕРВИСОВ ИЗ ХРАНИМОК



- Интеграция легаси с современными решениями
- Расширение функционала которого нет в t-sql

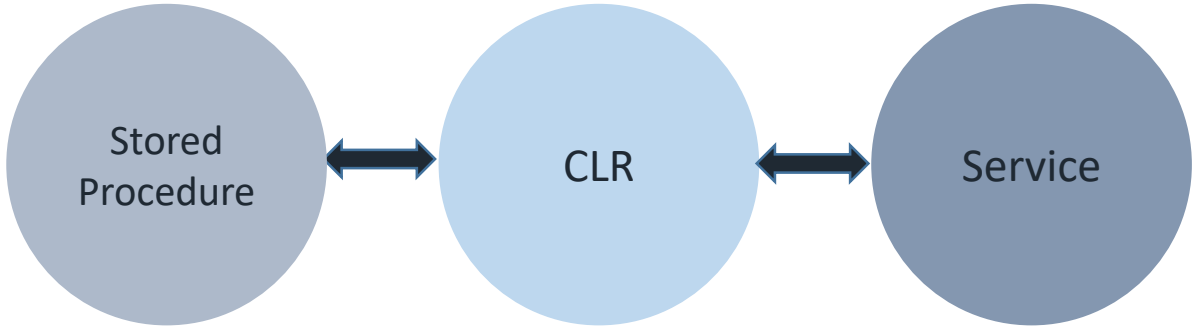
ВЫЗОВ ВЕБ СЕРВИСОВ ИЗ ХРАНИМОК



- Интеграция легаси с современными решениями
- Расширение функционала которого нет в t-sql

- Сложность отладки

ВЫЗОВ ВЕБ СЕРВИСОВ ИЗ ХРАНИМОК



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- Интеграция легаси с современными решениями
- Расширение функционала которого нет в t-sql

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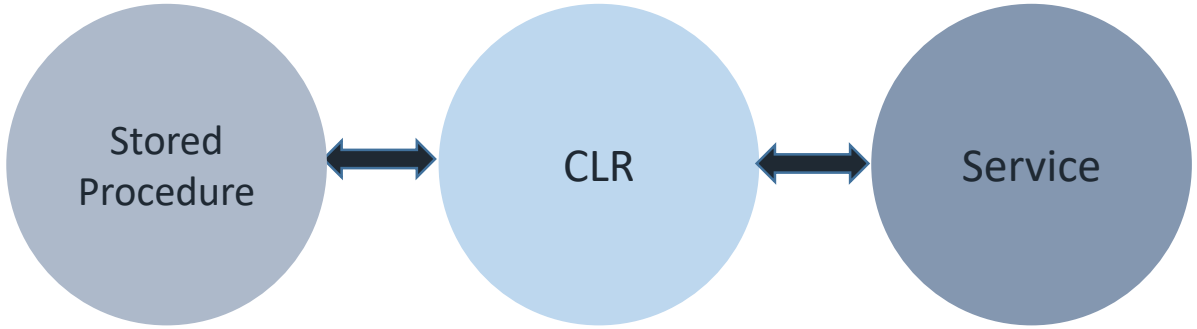
- Сложность отладки
- Снижение гибкости системы

ВЫЗОВ ВЕБ СЕРВИСОВ ИЗ ХРАНИМОК



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- Расширение функционала которого нет в t-sql

- Сложность отладки
- Снижение гибкости системы

ЧИСТЫЙ SQL В C#

```
SqlDataSource1.SelectCommand += " (SELECT ";
SqlDataSource1.SelectCommand += " U.[NAME] AS UserName,";
SqlDataSource1.SelectCommand += " U.[ID] AS UID, ";
SqlDataSource1.SelectCommand += " R.[RoleName] AS Role,";
SqlDataSource1.SelectCommand += " DO.[Name] AS DopOffice, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(CR.[ID])>0  ";
SqlDataSource1.SelectCommand += " THEN '<a href=\"analyseUser.aspx?uid=' + CONVERT(varchar, U.[ID]) + '&role=' + CONVERT(varchar, R.[RoleID]) + ";
SqlDataSource1.SelectCommand += " '&state=1\" target=\"blank\">'+ CONVERT(varchar, COUNT(CR.[ID]))+'</a>' ELSE '0' ";
SqlDataSource1.SelectCommand += "  END AS CRCount, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(CR.[ID])>0 THEN COUNT(CR.[ID]) ELSE 0 END AS CRCountForSort, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(UCR.[ID])>0 ";
SqlDataSource1.SelectCommand += " THEN '<a href=\"analyseUser.aspx?uid=' + CONVERT(varchar, U.[ID]) + '&role=' + CONVERT(varchar, R.[RoleID]) +";
SqlDataSource1.SelectCommand += " '&state=2\" target=\"blank\">'+ CONVERT(varchar, COUNT(UCR.[ID]))+'</a>' ELSE '0' ";
SqlDataSource1.SelectCommand += " END AS UCRCount, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(UCR.[ID])>0 THEN COUNT(UCR.[ID]) ELSE 0 END AS UCRCountForSort ";
SqlDataSource1.SelectCommand += " FROM [BPUsers2CR] BPU ";
SqlDataSource1.SelectCommand += " JOIN [USERS] AS U ON U.[ID]=BPU.[UserID] AND U.isActive = 1 ";
SqlDataSource1.SelectCommand += " JOIN [DopOffices] AS DO ON DO.[ID]=U.[DopOfficeID] ";
SqlDataSource1.SelectCommand += " JOIN [USER_ROLELINK] AS URL ON URL.[RoleID]=BPU.[RoleID] AND URL.[UserID]=BPU.[UserID] and URL.IsEnabled = 1 ";
SqlDataSource1.SelectCommand += " JOIN [ROLES] AS R ON R.[RoleID]=BPU.[RoleID] ";
SqlDataSource1.SelectCommand += " LEFT JOIN [CREDITREQUESTS] AS CR ON CR.[ID]=BPU.[CRID]";
SqlDataSource1.SelectCommand += " AND CR.[RequestStatusID] NOT IN(SELECT ST.[ID] FROM [STATUSES] ST WHERE ST.[IsEnding]=1) ";
SqlDataSource1.SelectCommand += " AND CR.[RequestStatusID] NOT IN(SELECT CP.[StateID] FROM [ConfirmParams] CP ";
SqlDataSource1.SelectCommand += " WHERE CP.[RoleID]=BPU.[RoleID] ";
SqlDataSource1.SelectCommand += " AND CP.[IsKickback]=0 AND CP.[IsReconfirm]=0 AND CP.[IsActive]=1) ";
SqlDataSource1.SelectCommand += " AND CR.[CCObjectID] IN (Select distinct [ID] from [CCObjects])";
SqlDataSource1.SelectCommand += " LEFT JOIN [CREDITREQUESTS] AS UCR ON UCR.[ID]=BPU.[CRID] ";
SqlDataSource1.SelectCommand += " AND UCR.[RequestStatusID] IN(SELECT CP.[StateID] FROM [ConfirmParams] CP WHERE CP.[RoleID]=BPU.[RoleID]";
```

ЧИСТЫЙ SQL В C#

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SqlDataSource1.SelectCommand += " (SELECT ";
SqlDataSource1.SelectCommand += " U.[NAME] AS UserName,";
SqlDataSource1.SelectCommand += " U.[ID] AS UID, ";
SqlDataSource1.SelectCommand += " R.[RoleName] AS Role,";
SqlDataSource1.SelectCommand += " DO.[Name] AS DopOffice, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(CR.[ID])>0  ";
SqlDataSource1.SelectCommand += " THEN '<a href=\"analyseUser.aspx?uid=' + CONVERT(varchar, U.[ID]) + '&role=' + CONVERT(varchar, R.[RoleID]) + ";
SqlDataSource1.SelectCommand += " '&state=1\" target=\"blank\">'+ CONVERT(varchar, COUNT(CR.[ID]))+'</a>' ELSE '0' ";
SqlDataSource1.SelectCommand += "  END AS CRCount, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(CR.[ID])>0 THEN COUNT(CR.[ID]) ELSE 0 END AS CRCountForSort, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(UCR.[ID])>0 ";
SqlDataSource1.SelectCommand += " THEN '<a href=\"analyseUser.aspx?uid=' + CONVERT(varchar, U.[ID]) + '&role=' + CONVERT(varchar, R.[RoleID]) +";
SqlDataSource1.SelectCommand += " '&state=2\" target=\"blank\">'+ CONVERT(varchar, COUNT(UCR.[ID]))+'</a>' ELSE '0' ";
SqlDataSource1.SelectCommand += " END AS UCRCount, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(UCR.[ID])>0 THEN COUNT(UCR.[ID]) ELSE 0 END AS UCRCountForSort ";
SqlDataSource1.SelectCommand += " FROM [BPUsers2CR] BPU ";
SqlDataSource1.SelectCommand += " JOIN [USERS] AS U ON U.[ID]=BPU.[UserID] AND U.isActive = 1 ";
SqlDataSource1.SelectCommand += " JOIN [DopOffices] AS DO ON DO.[ID]=U.[DopOfficeID] ";
SqlDataSource1.SelectCommand += " JOIN [USER_ROLELINK] AS URL ON URL.[RoleID]=BPU.[RoleID] AND URL.[UserID]=BPU.[UserID] and URL.IsEnabled = 1 ";
SqlDataSource1.SelectCommand += " JOIN [ROLES] AS R ON R.[RoleID]=BPU.[RoleID] ";
SqlDataSource1.SelectCommand += " LEFT JOIN [CREDITREQUESTS] AS CR ON CR.[ID]=BPU.[CRID]";
SqlDataSource1.SelectCommand += " AND CR.[RequestStatusID] NOT IN(SELECT ST.[ID] FROM [STATUSES] ST WHERE ST.[IsEnding]=1) ";
SqlDataSource1.SelectCommand += " AND CR.[RequestStatusID] NOT IN(SELECT CP.[StateID] FROM [ConfirmParams] CP ";
SqlDataSource1.SelectCommand += " WHERE CP.[RoleID]=BPU.[RoleID] ";
SqlDataSource1.SelectCommand += " AND CP.[IsKickback]=0 AND CP.[IsReconfirm]=0 AND CP.[IsActive]=1) ";
SqlDataSource1.SelectCommand += " AND CR.[CCObjectID] IN (Select distinct [ID] from [CCObjects])";
SqlDataSource1.SelectCommand += " LEFT JOIN [CREDITREQUESTS] AS UCR ON UCR.[ID]=BPU.[CRID] ";
SqlDataSource1.SelectCommand += " AND UCR.[RequestStatusID] IN(SELECT CP.[StateID] FROM [ConfirmParams] CP WHERE CP.[RoleID]=BPU.[RoleID]";
```

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- Скорость

ЧИСТЫЙ SQL В C#

```
SqlDataSource1.SelectCommand += " (SELECT ";
SqlDataSource1.SelectCommand += " U.[NAME] AS UserName,";
SqlDataSource1.SelectCommand += " U.[ID] AS UID, ";
SqlDataSource1.SelectCommand += " R.[RoleName] AS Role,";
SqlDataSource1.SelectCommand += " DO.[Name] AS DopOffice, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(CR.[ID])>0  ";
SqlDataSource1.SelectCommand += " THEN '<a href=\"analyseUser.aspx?uid=' + CONVERT(varchar, U.[ID]) + '&role=' + CONVERT(varchar, R.[RoleID]) + ";
SqlDataSource1.SelectCommand += " '&state=1\" target=\"blank\">'+ CONVERT(varchar, COUNT(CR.[ID]))+'</a>' ELSE '0' ";
SqlDataSource1.SelectCommand += "  END AS CRCount, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(CR.[ID])>0 THEN COUNT(CR.[ID]) ELSE 0 END AS CRCountForSort, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(UCR.[ID])>0 ";
SqlDataSource1.SelectCommand += " THEN '<a href=\"analyseUser.aspx?uid=' + CONVERT(varchar, U.[ID]) + '&role=' + CONVERT(varchar, R.[RoleID]) +";
SqlDataSource1.SelectCommand += " '&state=2\" target=\"blank\">'+ CONVERT(varchar, COUNT(UCR.[ID]))+'</a>' ELSE '0' ";
SqlDataSource1.SelectCommand += " END AS UCRCount, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(UCR.[ID])>0 THEN COUNT(UCR.[ID]) ELSE 0 END AS UCRCountForSort ";
SqlDataSource1.SelectCommand += " FROM [BPUsers2CR] BPU ";
SqlDataSource1.SelectCommand += " JOIN [USERS] AS U ON U.[ID]=BPU.[UserID] AND U.isActive = 1 ";
SqlDataSource1.SelectCommand += " JOIN [DopOffices] AS DO ON DO.[ID]=U.[DopOfficeID] ";
SqlDataSource1.SelectCommand += " JOIN [USER_ROLELINK] AS URL ON URL.[RoleID]=BPU.[RoleID] AND URL.[UserID]=BPU.[UserID] and URL.IsEnabled = 1 ";
SqlDataSource1.SelectCommand += " JOIN [ROLES] AS R ON R.[RoleID]=BPU.[RoleID] ";
SqlDataSource1.SelectCommand += " LEFT JOIN [CREDITREQUESTS] AS CR ON CR.[ID]=BPU.[CRID]";
SqlDataSource1.SelectCommand += " AND CR.[RequestStatusID] NOT IN(SELECT ST.[ID] FROM [STATUSES] ST WHERE ST.[IsEnding]=1) ";
SqlDataSource1.SelectCommand += " AND CR.[RequestStatusID] NOT IN(SELECT CP.[StateID] FROM [ConfirmParams] CP ";
SqlDataSource1.SelectCommand += " WHERE CP.[RoleID]=BPU.[RoleID] ";
SqlDataSource1.SelectCommand += " AND CP.[IsKickback]=0 AND CP.[IsReconfirm]=0 AND CP.[IsActive]=1) ";
SqlDataSource1.SelectCommand += " AND CR.[CCObjectID] IN (Select distinct [ID] from [CCObjects])";
SqlDataSource1.SelectCommand += " LEFT JOIN [CREDITREQUESTS] AS UCR ON UCR.[ID]=BPU.[CRID] ";
SqlDataSource1.SelectCommand += " AND UCR.[RequestStatusID] IN(SELECT CP.[StateID] FROM [ConfirmParams] CP WHERE CP.[RoleID]=BPU.[RoleID]";
```

\+

- Скорость

–

- Сложность восприятия

ЧИСТЫЙ SQL В C#

```
SqlDataSource1.SelectCommand += " (SELECT ";
SqlDataSource1.SelectCommand += " U.[NAME] AS UserName,";
SqlDataSource1.SelectCommand += " U.[ID] AS UID, ";
SqlDataSource1.SelectCommand += " R.[RoleName] AS Role,";
SqlDataSource1.SelectCommand += " DO.[Name] AS DopOffice, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(CR.[ID])>0  ";
SqlDataSource1.SelectCommand += " THEN '<a href=\"analyseUser.aspx?uid=' + CONVERT(varchar, U.[ID]) + '&role=' + CONVERT(varchar, R.[RoleID]) + ";
SqlDataSource1.SelectCommand += " '&state=1\" target=\"blank\">'+ CONVERT(varchar, COUNT(CR.[ID]))+'</a>' ELSE '0' ";
SqlDataSource1.SelectCommand += "  END AS CRCount, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(CR.[ID])>0 THEN COUNT(CR.[ID]) ELSE 0 END AS CRCountForSort, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(UCR.[ID])>0 ";
SqlDataSource1.SelectCommand += " THEN '<a href=\"analyseUser.aspx?uid=' + CONVERT(varchar, U.[ID]) + '&role=' + CONVERT(varchar, R.[RoleID]) +";
SqlDataSource1.SelectCommand += " '&state=2\" target=\"blank\">'+ CONVERT(varchar, COUNT(UCR.[ID]))+'</a>' ELSE '0' ";
SqlDataSource1.SelectCommand += " END AS UCRCount, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(UCR.[ID])>0 THEN COUNT(UCR.[ID]) ELSE 0 END AS UCRCountForSort ";
SqlDataSource1.SelectCommand += " FROM [BPUsers2CR] BPU ";
SqlDataSource1.SelectCommand += " JOIN [USERS] AS U ON U.[ID]=BPU.[UserID] AND U.isActive = 1 ";
SqlDataSource1.SelectCommand += " JOIN [DopOffices] AS DO ON DO.[ID]=U.[DopOfficeID] ";
SqlDataSource1.SelectCommand += " JOIN [USER_ROLELINK] AS URL ON URL.[RoleID]=BPU.[RoleID] AND URL.[UserID]=BPU.[UserID] and URL.IsEnabled = 1 ";
SqlDataSource1.SelectCommand += " JOIN [ROLES] AS R ON R.[RoleID]=BPU.[RoleID] ";
SqlDataSource1.SelectCommand += " LEFT JOIN [CREDITREQUESTS] AS CR ON CR.[ID]=BPU.[CRID]";
SqlDataSource1.SelectCommand += " AND CR.[RequestStatusID] NOT IN(SELECT ST.[ID] FROM [STATUSES] ST WHERE ST.[IsEnding]=1) ";
SqlDataSource1.SelectCommand += " AND CR.[RequestStatusID] NOT IN(SELECT CP.[StateID] FROM [ConfirmParams] CP ";
SqlDataSource1.SelectCommand += " WHERE CP.[RoleID]=BPU.[RoleID] ";
SqlDataSource1.SelectCommand += " AND CP.[IsKickback]=0 AND CP.[IsReconfirm]=0 AND CP.[IsActive]=1) ";
SqlDataSource1.SelectCommand += " AND CR.[CCObjectID] IN (Select distinct [ID] from [CCObjects])";
SqlDataSource1.SelectCommand += " LEFT JOIN [CREDITREQUESTS] AS UCR ON UCR.[ID]=BPU.[CRID] ";
SqlDataSource1.SelectCommand += " AND UCR.[RequestStatusID] IN(SELECT CP.[StateID] FROM [ConfirmParams] CP WHERE CP.[RoleID]=BPU.[RoleID]";
```

\+

- Скорость

–

- Сложность восприятия
- Проблемы при изменении схемы

ЧИСТЫЙ SQL В C#

```
SqlDataSource1.SelectCommand += " (SELECT ";
SqlDataSource1.SelectCommand += " U.[NAME] AS UserName,";
SqlDataSource1.SelectCommand += " U.[ID] AS UID, ";
SqlDataSource1.SelectCommand += " R.[RoleName] AS Role,";
SqlDataSource1.SelectCommand += " DO.[Name] AS DopOffice, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(CR.[ID])>0  ";
SqlDataSource1.SelectCommand += " THEN '<a href=\"analyseUser.aspx?uid=' + CONVERT(varchar, U.[ID]) + '&role=' + CONVERT(varchar, R.[RoleID]) + ";
SqlDataSource1.SelectCommand += " '&state=1\" target=\"blank\">'+ CONVERT(varchar, COUNT(CR.[ID]))+'</a>' ELSE '0' ";
SqlDataSource1.SelectCommand += "  END AS CRCount, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(CR.[ID])>0 THEN COUNT(CR.[ID]) ELSE 0 END AS CRCountForSort, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(UCR.[ID])>0 ";
SqlDataSource1.SelectCommand += " THEN '<a href=\"analyseUser.aspx?uid=' + CONVERT(varchar, U.[ID]) + '&role=' + CONVERT(varchar, R.[RoleID]) +";
SqlDataSource1.SelectCommand += " '&state=2\" target=\"blank\">'+ CONVERT(varchar, COUNT(UCR.[ID]))+'</a>' ELSE '0' ";
SqlDataSource1.SelectCommand += " END AS UCRCount, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(UCR.[ID])>0 THEN COUNT(UCR.[ID]) ELSE 0 END AS UCRCountForSort ";
SqlDataSource1.SelectCommand += " FROM [BPUsers2CR] BPU ";
SqlDataSource1.SelectCommand += " JOIN [USERS] AS U ON U.[ID]=BPU.[UserID] AND U.isActive = 1 ";
SqlDataSource1.SelectCommand += " JOIN [DopOffices] AS DO ON DO.[ID]=U.[DopOfficeID] ";
SqlDataSource1.SelectCommand += " JOIN [USER_ROLELINK] AS URL ON URL.[RoleID]=BPU.[RoleID] AND URL.[UserID]=BPU.[UserID] and URL.IsEnabled = 1 ";
SqlDataSource1.SelectCommand += " JOIN [ROLES] AS R ON R.[RoleID]=BPU.[RoleID] ";
SqlDataSource1.SelectCommand += " LEFT JOIN [CREDITREQUESTS] AS CR ON CR.[ID]=BPU.[CRID]";
SqlDataSource1.SelectCommand += " AND CR.[RequestStatusID] NOT IN(SELECT ST.[ID] FROM [STATUSES] ST WHERE ST.[IsEnding]=1) ";
SqlDataSource1.SelectCommand += " AND CR.[RequestStatusID] NOT IN(SELECT CP.[StateID] FROM [ConfirmParams] CP ";
SqlDataSource1.SelectCommand += " WHERE CP.[RoleID]=BPU.[RoleID] ";
SqlDataSource1.SelectCommand += " AND CP.[IsKickback]=0 AND CP.[IsReconfirm]=0 AND CP.[IsActive]=1) ";
SqlDataSource1.SelectCommand += " AND CR.[CCObjectID] IN (Select distinct [ID] from [CCObjects])";
SqlDataSource1.SelectCommand += " LEFT JOIN [CREDITREQUESTS] AS UCR ON UCR.[ID]=BPU.[CRID] ";
SqlDataSource1.SelectCommand += " AND UCR.[RequestStatusID] IN(SELECT CP.[StateID] FROM [ConfirmParams] CP WHERE CP.[RoleID]=BPU.[RoleID]";
```

+

- Скорость

–

- Сложность восприятия
- Проблемы при изменении схемы
- Sql injection

ЧИСТЫЙ SQL В C#

```
SqlDataSource1.SelectCommand += " (SELECT ";
SqlDataSource1.SelectCommand += " U.[NAME] AS UserName,";
SqlDataSource1.SelectCommand += " U.[ID] AS UID, ";
SqlDataSource1.SelectCommand += " R.[RoleName] AS Role,";
SqlDataSource1.SelectCommand += " DO.[Name] AS DopOffice, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(CR.[ID])>0  ";
SqlDataSource1.SelectCommand += " THEN '<a href=\"analyseUser.aspx?uid=' + CONVERT(varchar, U.[ID]) + '&role=' + CONVERT(varchar, R.[RoleID]) + ";
SqlDataSource1.SelectCommand += " '&state=1\" target=\"blank\">'+ CONVERT(varchar, COUNT(CR.[ID]))+'</a>' ELSE '0' ";
SqlDataSource1.SelectCommand += "  END AS CRCount, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(CR.[ID])>0 THEN COUNT(CR.[ID]) ELSE 0 END AS CRCountForSort, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(UCR.[ID])>0 ";
SqlDataSource1.SelectCommand += " THEN '<a href=\"analyseUser.aspx?uid=' + CONVERT(varchar, U.[ID]) + '&role=' + CONVERT(varchar, R.[RoleID]) +";
SqlDataSource1.SelectCommand += " '&state=2\" target=\"blank\">'+ CONVERT(varchar, COUNT(UCR.[ID]))+'</a>' ELSE '0' ";
SqlDataSource1.SelectCommand += " END AS UCRCount, ";
SqlDataSource1.SelectCommand += " CASE ";
SqlDataSource1.SelectCommand += " WHEN COUNT(UCR.[ID])>0 THEN COUNT(UCR.[ID]) ELSE 0 END AS UCRCountForSort ";
SqlDataSource1.SelectCommand += " FROM [BPUsers2CR] BPU ";
SqlDataSource1.SelectCommand += " JOIN [USERS] AS U ON U.[ID]=BPU.[UserID] AND U.isActive = 1 ";
SqlDataSource1.SelectCommand += " JOIN [DopOffices] AS DO ON DO.[ID]=U.[DopOfficeID] ";
SqlDataSource1.SelectCommand += " JOIN [USER_ROLELINK] AS URL ON URL.[RoleID]=BPU.[RoleID] AND URL.[UserID]=BPU.[UserID] and URL.IsEnabled = 1 ";
SqlDataSource1.SelectCommand += " JOIN [ROLES] AS R ON R.[RoleID]=BPU.[RoleID] ";
SqlDataSource1.SelectCommand += " LEFT JOIN [CONFIRREQUESTS] AS CR ON CR.[ID]=BPU.[CRID]";
SqlDataSource1.SelectCommand += " AND CR.[RequestStatusID] NOT IN(SELECT ST.[ID] FROM [STATUSES] ST WHERE ST.[IsEnding]=1) ";
SqlDataSource1.SelectCommand += " AND CR.[RequestStateID] NOT IN(SELECT CP.[StateID] FROM [ConfirmParams] CP ";
SqlDataSource1.SelectCommand += " WHERE CP.[RoleID]=BPU.[RoleID] ";
SqlDataSource1.SelectCommand += " AND CP.[IsSkipCheck]=0 AND CP.[IsReconfirm]=0 AND CP.[IsActive]=1) ";
SqlDataSource1.SelectCommand += " AND CP.[CCObjectID] IN (SELECT distinct [ID] from [CCObjects])";
SqlDataSource1.SelectCommand += " LEFT JOIN [CREDITREQUESTS] AS UCR ON UCR.[ID]=BPU.[CRID] ";
SqlDataSource1.SelectCommand += " AND UCR.[RequestStatusID] IN(SELECT CP.[StateID] FROM [ConfirmParams] CP WHERE CP.[RoleID]=BPU.[RoleID]";
```

+

- Скорость

−

- Сложность восприятия
- Проблемы при изменении схемы
- Sql injection

CODECOVERAGE

codecov bot commented 21 days ago • edited

Codecov Report

> Merging #2796 into master will decrease coverage by `<.01%`.
> The diff coverage is `90.9%`.

```
@@            Coverage Diff             @@
##           master    #2796      +/-   ##
============================================
- Coverage   97.39%   97.39%   -0.01%
============================================
  Files         752      752
  Lines       97181    97295     +114
  Branches     3171     3188      +17
============================================
+ Hits        94652    94758     +106
- Misses       1680     1686       +6
- Partials      849      851       +2
```

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============================================
- Coverage   97.39%   97.39%   -0.01%
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  Files         752      752
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  Branches     3171     3188      +17
============================================
+ Hits        94652    94758     +106
- Misses       1680     1686       +6
- Partials      849      851       +2
```

- Снижение вероятности ошибки

CODECOVERAGE

codecov bot commented 21 days ago • edited

Codecov Report

> Merging #2796 into master will decrease coverage by `<.01%`.
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```
@@            Coverage Diff             @@
##           master    #2796      +/-   ##
==========================================
- Coverage   97.39%   97.39%   -0.01%
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  Files         752      752
  Lines       97181    97295     +114
  Branches     3171     3188      +17
==========================================
+ Hits        94652    94758     +106
- Misses       1680     1686       +6
- Partials      849      851       +2
```

+

- Снижение вероятности ошибки

–

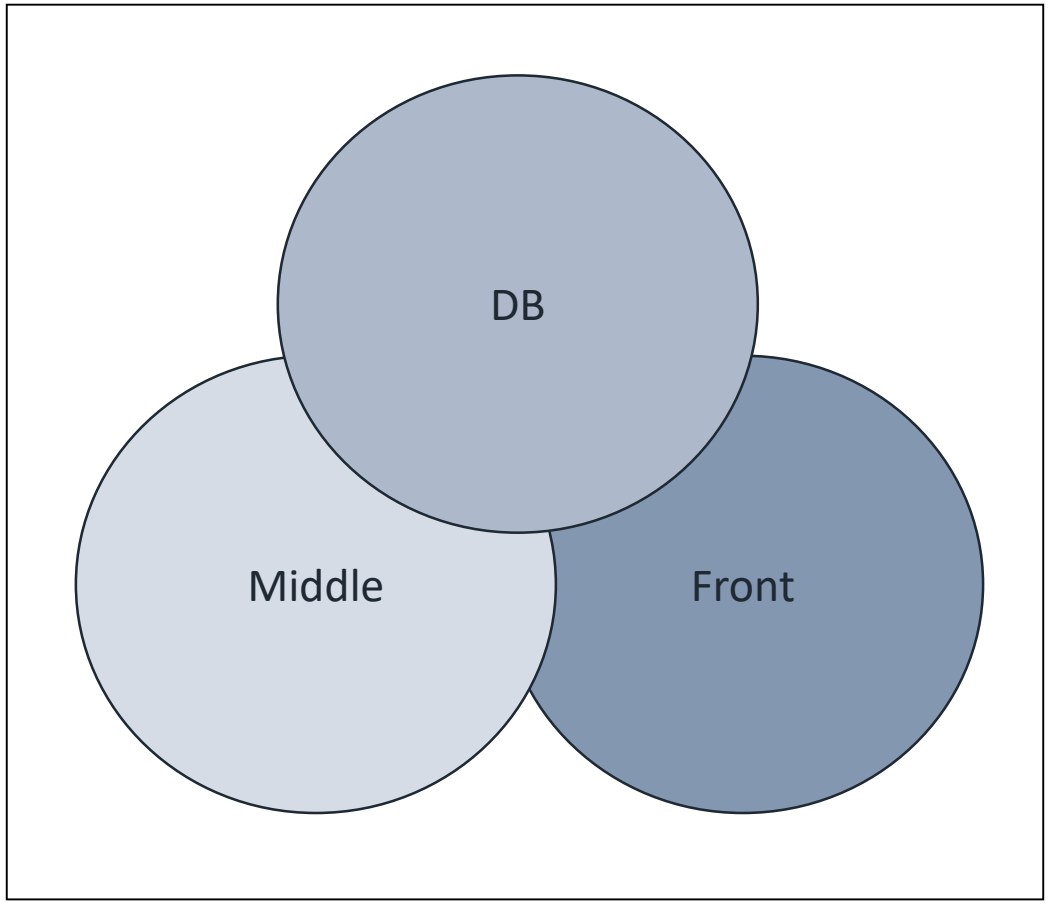
- Увеличение трудозатрат

CODECOVERAGE

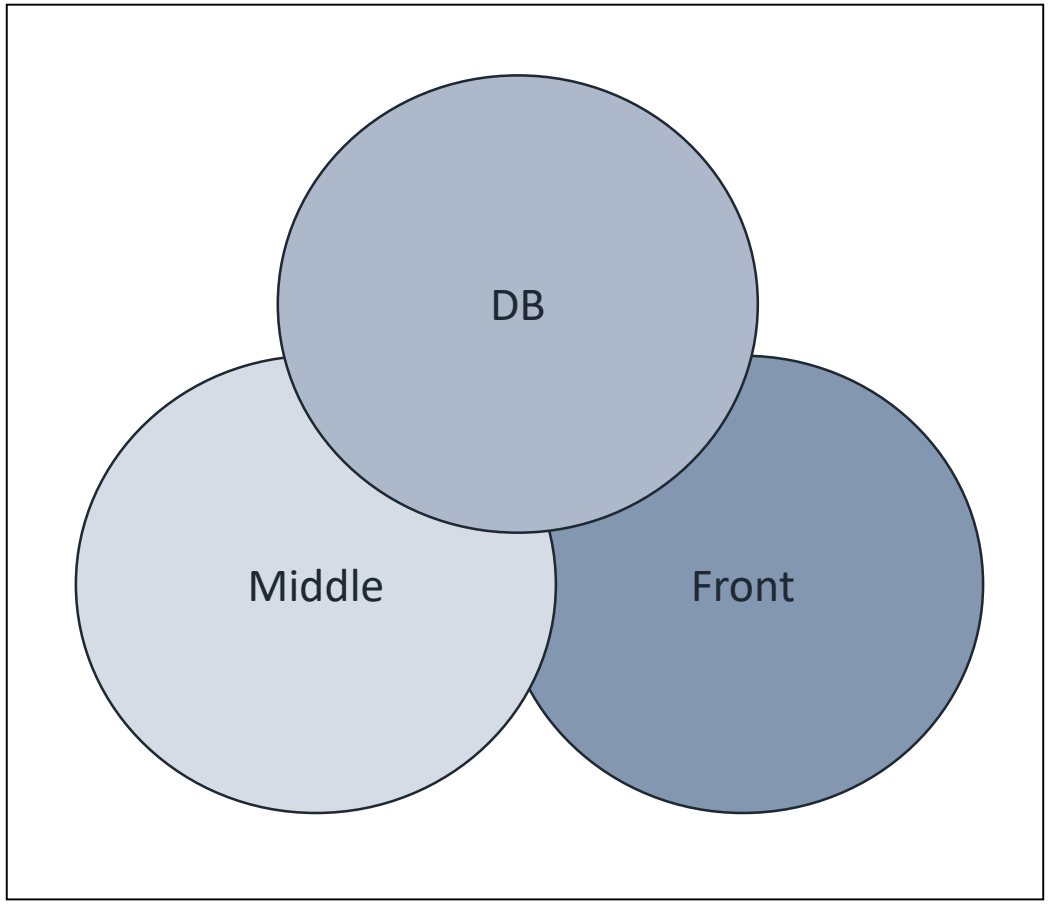
- Снижение вероятности ошибки

- Увеличение трудозатрат

ОДНОСЛОЙНОЕ ПРИЛОЖЕНИЕ



ОДНОСЛОЙНОЕ ПРИЛОЖЕНИЕ



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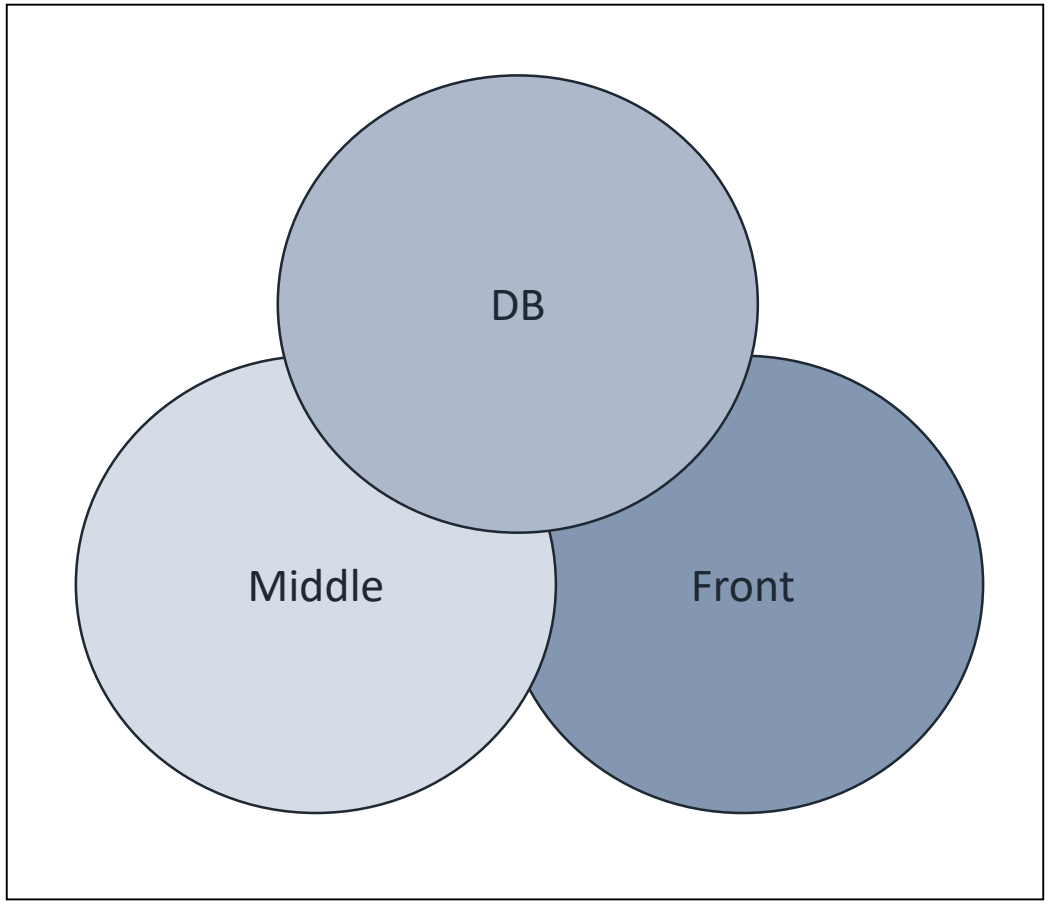
- Быстрая разработка

ОДНОСЛОЙНОЕ ПРИЛОЖЕНИЕ



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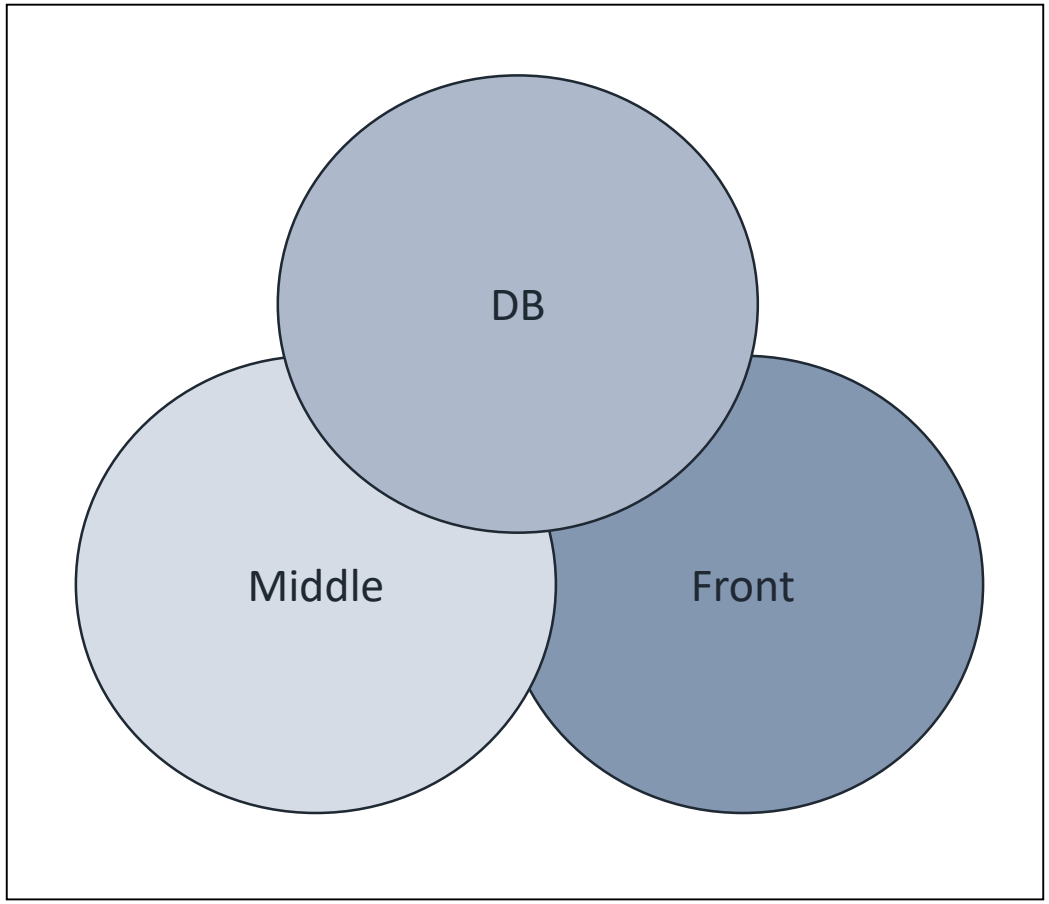
- Быстрая разработка

–

- Размытие логики (спагетти)

ОДНОСЛОЙНОЕ ПРИЛОЖЕНИЕ



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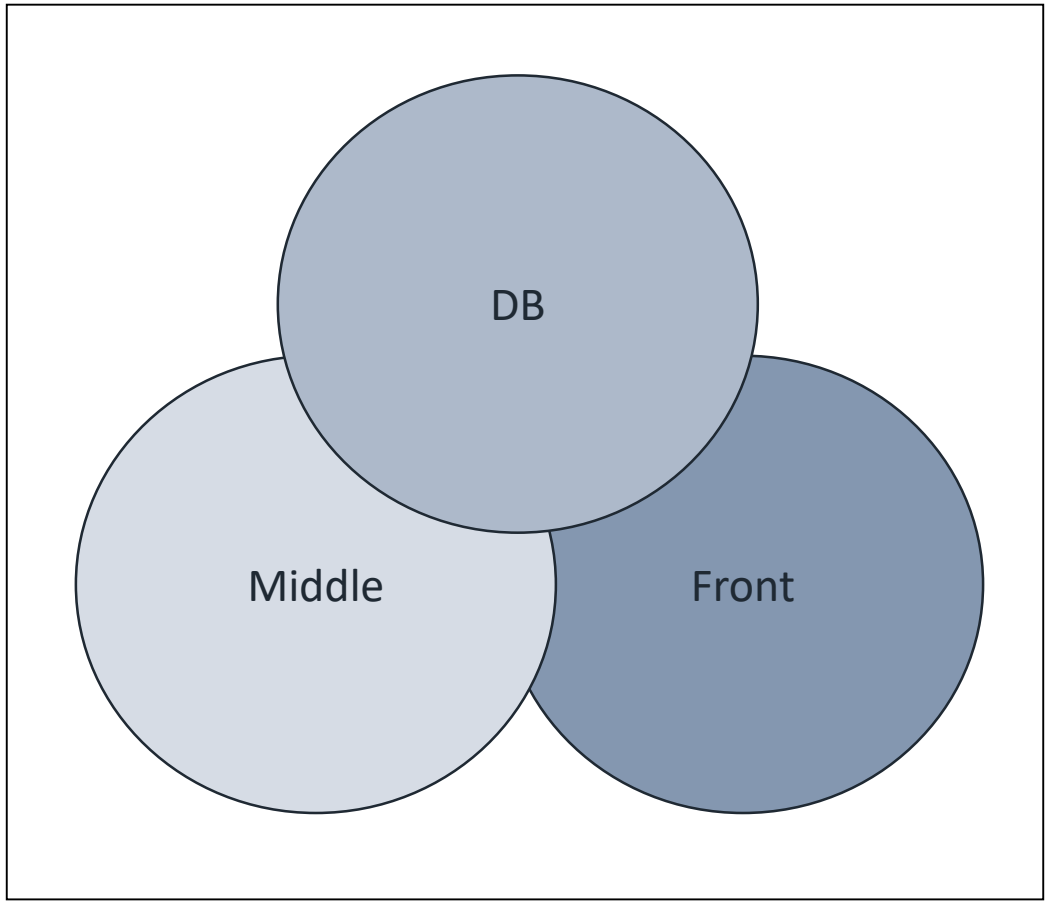
- Быстрая разработка

–

- Размытие логики (спагетти)
- Отсутствие масштабируемости

ОДНОСЛОЙНОЕ ПРИЛОЖЕНИЕ



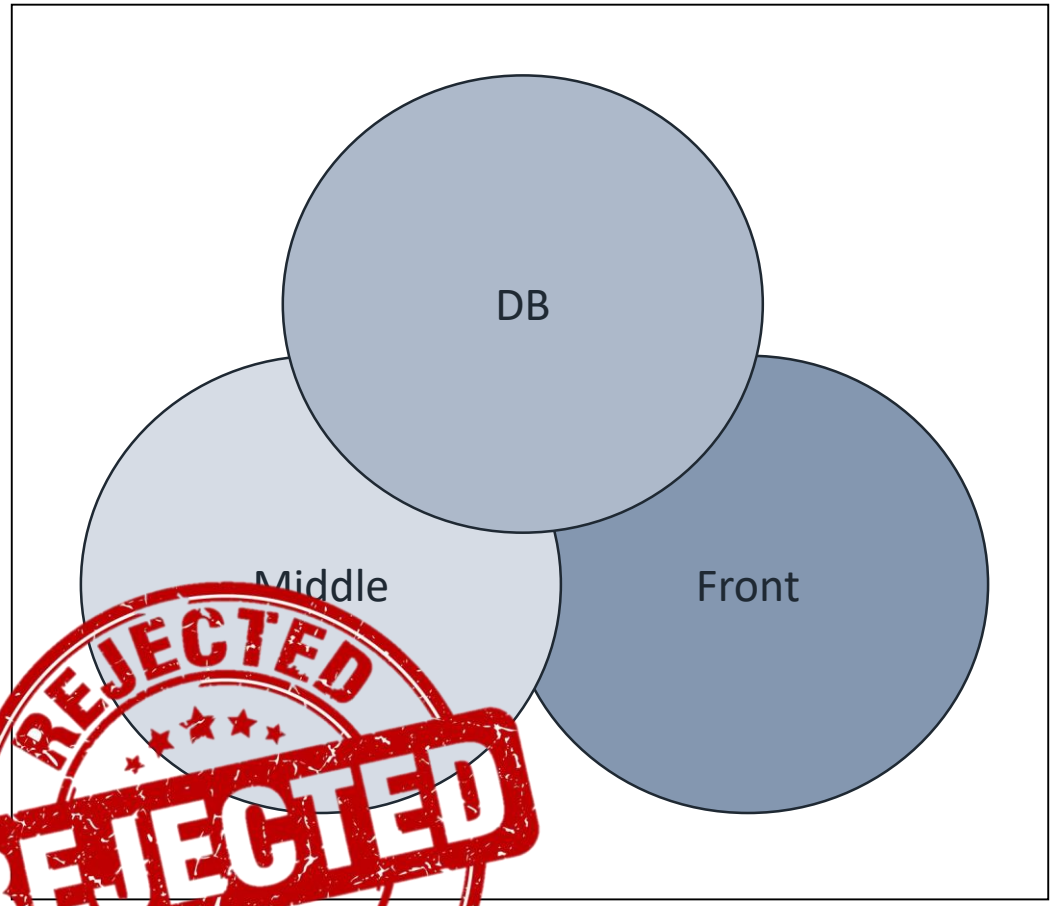
+

- Быстрая разработка

–

- Размытие логики (спагетти)
- Отсутствие масштабируемости
- Отсутствие отказоустойчивости

ОДНОСЛОЙНОЕ ПРИЛОЖЕНИЕ



+

- Быстрая разработка

–

- Размытие логики (спагетти)
- Отсутствие масштабируемости
- Отсутствие отказоустойчивости

STYLECOP

+

- Единообразие

STYLECOP

- Единообразие
- Читаемость

- Единообразие
- Читаемость
- Снижение входного порога

STYLECOP

+

- Единообразие
- Читаемость
- Снижение входного порога

–

- Заставляет писать как принято

STYLECOP

+

- Единообразие
- Читаемость
- Снижение входного порога

–

- Заставляет писать как принято
- А как же оригинальность?

STYLECOP

+

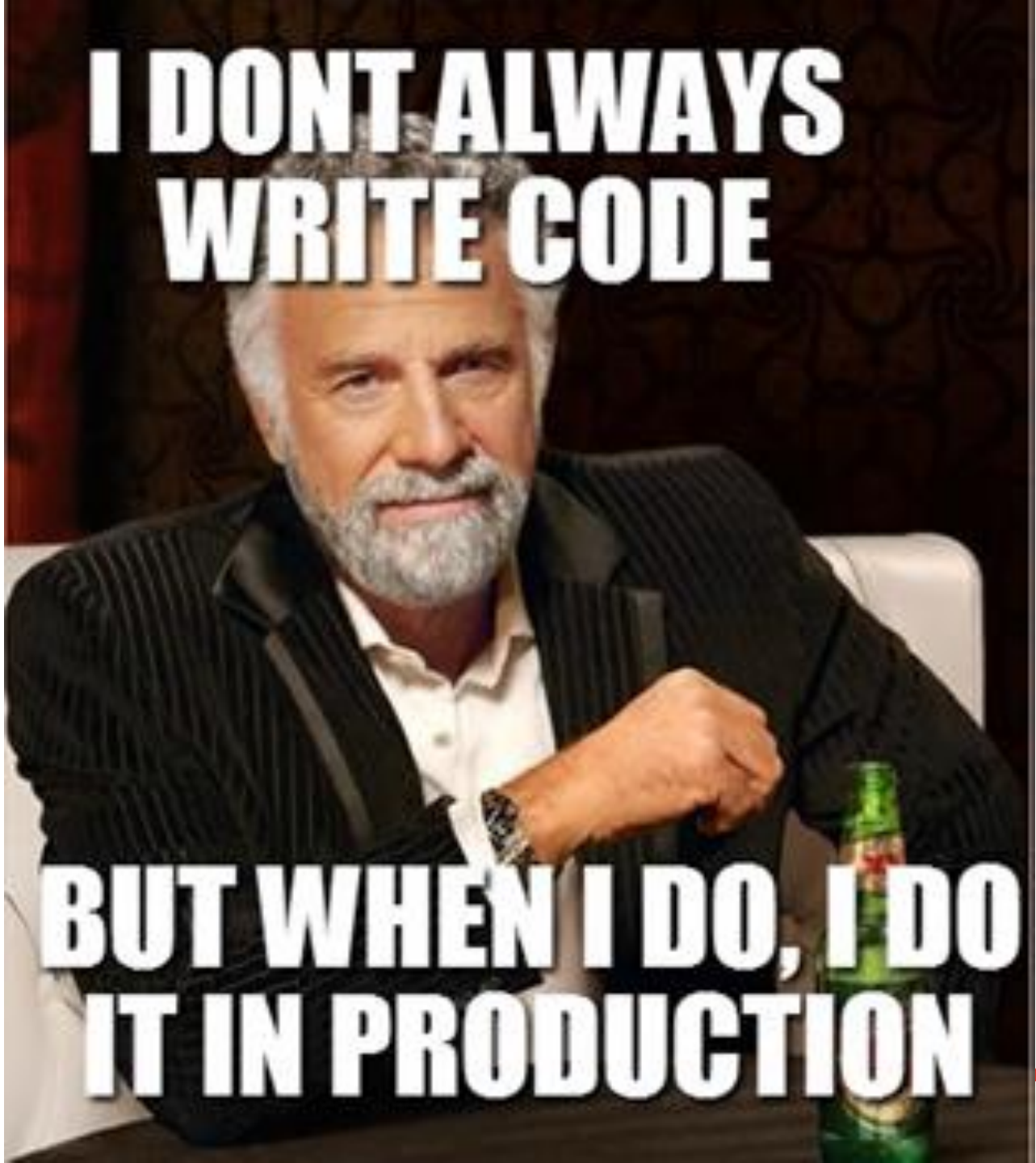
- Единообразие
- Читаемость
- Снижение входного порога

–

- Заставляет писать как принято
- А как же оригинальность?

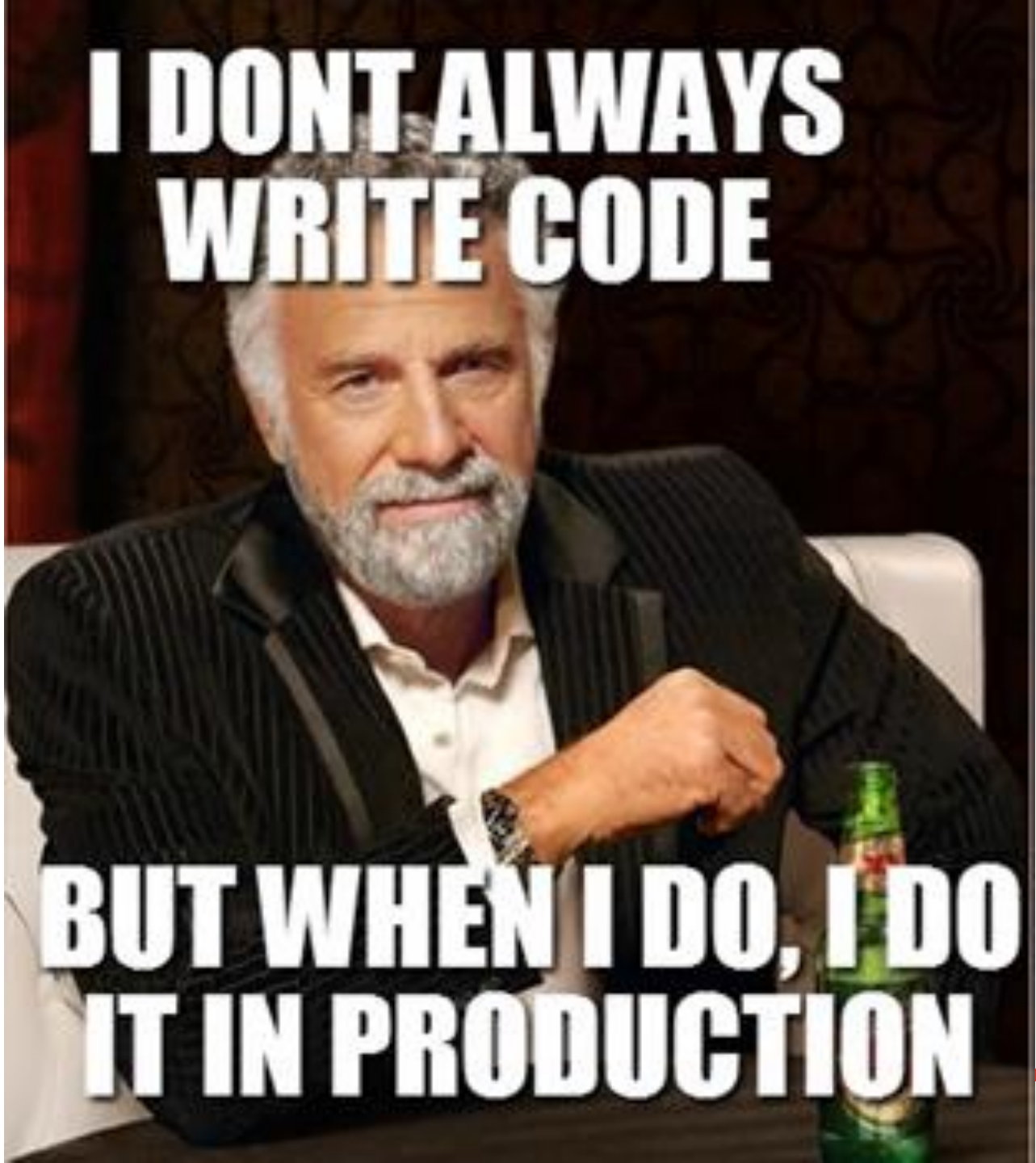
TIME TO MARKET == 0

- Разрабатывай прямо на бою
- Лучшие тестировщики – конечные пользователи
- Ночи и выходные на работе



TIME TO MARKET == 0

- Разрабатывай прямо на бою
- Лучшие тестировщики – конечные пользователи
- Ночи и выходные на работе



ПРОВЕРКИ НА УЯЗВИМОСТИ КОДА

ПРОВЕРКИ НА УЯЗВИМОСТИ КОДА

- Снижение рисков

ПРОВЕРКИ НА УЯЗВИМОСТИ КОДА

- Снижение рисков
- Безопасность

ПРОВЕРКИ НА УЯЗВИМОСТИ КОДА

- Снижение рисков
- Безопасность
- Помогает избежать распространённых ошибок

ПРОВЕРКИ НА УЯЗВИМОСТИ КОДА

+

- Снижение рисков
- Безопасность
- Помогает избежать распространённых ошибок

–

- Сложно создавать проверки

ПРОВЕРКИ НА УЯЗВИМОСТИ КОДА

+

- Снижение рисков
- Безопасность
- Помогает избежать распространённых ошибок

–

- Сложно создавать проверки
- Увеличение трудозатрат

ПРОВЕРКИ НА УЯЗВИМОСТИ КОДА

+

- Снижение рисков
- Безопасность
- Помогает избежать распространённых ошибок

—

- Сложно создавать проверки
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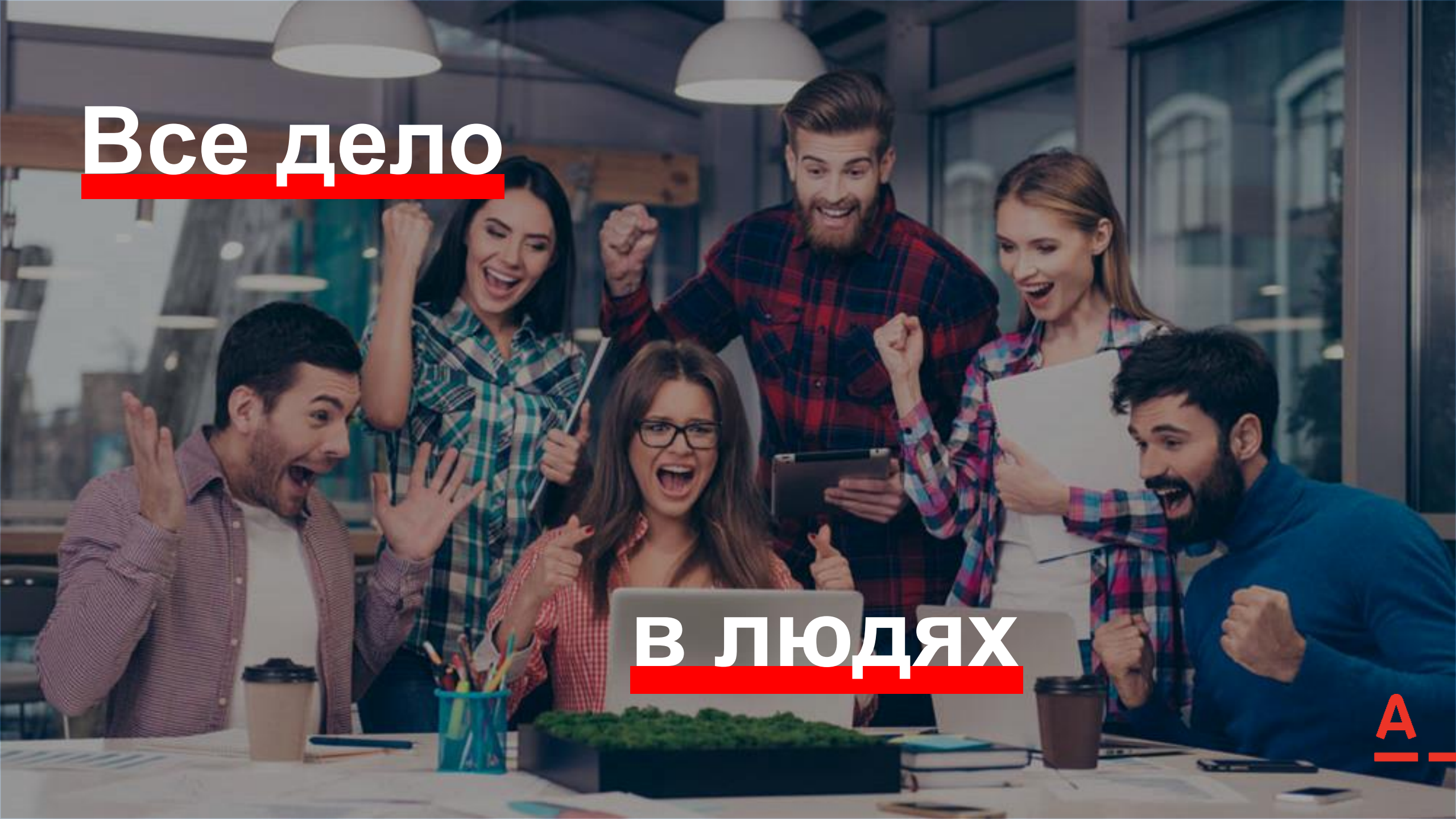
Все дело
в людях

СПАСИБО