



# Market-Making Platform



## Webmob Software Solutions

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Revolutionising Liquidity: Unveiling the Solution to Market Challenges



### About WEBMOB

Webmob has emerged as a service delivery pioneer in this dynamic fintech industry, serving a legion of laurelled clients in Europe and the Middle East. With AI/ML-powered, Cloud-native, and Blockchain in our stack, Webmob provides cutting-edge solutions to fulfill the customer's advanced and disruptive requirements.

Particularly for the FINTECH industry, Webmob offers unparalleled robust solutions in Trade Finance, Money Market, Fiduciary, Commercial Real Estate Loan Tokenization, and NFT Marketplaces on top Blockchains.

Webmob is, as of today, weaponed with a fully-equipped R&D lab, aka WikiDLT.com, and consulting certified professionals, especially to explore new possibilities for innovative Blockchain implementation.

### Overview

Our platform delivers comprehensive market-making solutions tailored to the needs of digital asset exchanges and token issuers. By leveraging cutting-edge technology and advanced trading algorithms, we ensure liquidity and efficiency in the cryptocurrency market.

Our solutions enhance digital asset exchanges' competitiveness by providing consistent liquidity. The platform supports centralised and decentralised exchanges, enabling smooth trade execution for users and maintaining healthy order book depth. Additionally, it offers real-time monitoring and analytics tools, allowing exchanges to optimise liquidity provision and adapt to changing market conditions.

Furthermore, token issuers benefit from ensuring liquidity throughout their lifecycle. This builds trust and credibility, attracts users, and fosters active trading communities. The platform even offers customisable liquidity provision strategies tailored to the specific needs of token issuers, ensuring that their tokens remain highly tradable and attractive to investors.

In summary, our platform plays a vital role in driving liquidity, trust, and profitability in the cryptocurrency market, supporting the growth and success of our clients businesses.



#### Business Needs

- Exchanges needed consistent liquidity for user attraction.
- Token issuers required ongoing liquidity for value maintenance.
- Investors sought assurance against slippage and price manipulation risks.
- Exchanges aimed for a competitive edge through superior liquidity.
- Investors pursued sustained profitability.

#### Our Solution

- Tailored liquidity service.
- Cutting-edge technology optimises liquidity provision.
- Continuous market monitoring and strategy adjustments.
- Coverage for centralised and decentralised exchanges and tokens.

#### Benefits

- Enhanced liquidity attracts users and preserves token value.
- Efficient market-making ensures a healthy market.
- Exchanges gain a competitive edge.
- Mitigates illiquidity risks, maintaining trust.
- Fosters growth and stability.

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## Solution

### Tailored Liquidity Services:

We provided personalised liquidity solutions designed specifically for the needs of digital asset exchanges and token issuers. This included creating custom liquidity provision strategies to address their unique requirements and challenges.

### Utilised Cutting-edge Trading

#### Technology:

Our platform harnesses state-of-the-art trading technology and sophisticated algorithms to optimise liquidity provision. By utilising advanced techniques, we minimised price fluctuations and kept books liquid to ensure a stable trading environment for our clients.

### Offered Full Coverage Support:

We supported central and decentralised exchanges, catering to the cryptocurrency market's diverse needs. Our liquidity solutions covered many tokens, ensuring our clients could access liquidity for all their trading pairs.

### Continuously Monitored and Adapted:

Our dedicated team continuously monitors market conditions and evaluates the performance of our liquidity strategies. We proactively adjust our approach to maintain optimal liquidity levels, ensuring a healthy market for participants.

### Deployed Scalable Infrastructure:

Our platform was built on a highly scalable infrastructure that easily accommodated our clients' growth and evolving needs. Whether handling increased volatility and volumes or even expanding into new markets, our infrastructure ensures reliability and seamless operation for our clients.



## Technology

### AWS (Amazon Web Services):

AWS provided cloud computing services for scalable and secure infrastructure deployment in our platform, ensuring reliability and flexibility.

### Python:

Python was used for gathering insights from data helpful in tuning trading algorithms and automated strategies.

### Java:

Java was employed for backend development - offering speed, robustness, platform independence, and scalability for complex trading infrastructure.

### C#:

C# was used as the backend for highly liquid trading venues to get an edge over the competition.

### ReactJS:

ReactJS was utilised for dynamic and responsive frontend components, offering modular and scalable UI development for enhanced user experience.



## Challenges

Earlier, the cryptocurrency market faced significant challenges in maintaining liquidity and efficiency. Exchanges struggled with inconsistent liquidity levels, leading to difficulties attracting and retaining users. Token issuers encountered hurdles in ensuring continuous liquidity for their tokens, which diminished investor confidence and hindered token adoption. Additionally, investors faced risks such as slippage and price manipulation due to inadequate liquidity in the market. Illiquid trading environments also posed challenges for executing trades efficiently, impacting overall market stability.

These challenges hindered the growth and sustainability of the cryptocurrency ecosystem, limiting its potential for broader adoption and mainstream acceptance. Recognising the urgent need for a solution, our platform was developed to address these challenges and provide efficient market-making services tailored to the needs of exchanges, token issuers, and investors, thereby fostering liquidity, trust, and growth in the cryptocurrency market.



## QA Process

Our QA process involves a systematic approach encompassing various stages to thoroughly assess the platform's functionality, security, and user experience.

### 01 Test Planning:

We defined the scope of testing, identified objectives, allocated resources, and developed a comprehensive test plan outlining our approach, timelines, and deliverables.

### 02 Requirement Analysis:

We reviewed the requirements documentation to understand the platform's expected behaviour and ensured our team accurately captured all functional and non-functional requirements.

### 03 Test Environment Setup:

We established testing environments mirroring the production environment, installed the necessary software, configured databases, and ensured the availability of test data representing various marketplace scenarios.

### 04 Test Case Design:

We developed detailed test scenarios and cases covering functional workflows, boundary conditions, error handling, and exception scenarios, prioritising based on criticality and risk.

### 05 Functional Testing:

We executed test cases to verify the functionality of different modules and features, including various workflows, integration with external systems, and compliance with regulatory standards.

### 06 User Interface Testing:

We evaluated the user interface for usability, accessibility, and responsiveness, ensuring consistency in design elements, layouts, and navigation across different screens.

### 07 Security Testing:

We performed security assessments, testing authentication and authorisation mechanisms, data encryption, and secure communication protocols, and conducted penetration testing to assess resilience to security breaches.



### 08 Regression Testing:

We re-ran previously executed test cases to ensure new changes did not introduce any regressions, automating regression test cases where feasible and validating backward compatibility.

### 09 Integration Testing:

We tested data exchange mechanisms and validated data consistency and integrity across integrated systems, including file uploads, API calls, and message queues.

### 10 Documentation and Reporting:

We maintained a detailed documentation of test cases, results, and defects, generated test reports summarising test coverage and provided stakeholders with regular updates on testing progress and identified issues.

### 11 User Acceptance Testing (UAT):

We collaborated with end-users and stakeholders to conduct UAT, obtaining feedback on the platform's functionality, usability, and performance, ensuring alignment with user expectations.



## Security Testing of the Platform:

### 1. API Testing:

**Objective:** Evaluate the functionality, reliability, security, and performance of APIs used in the platform.

**Tools:**

- **Postman:** Automated testing tool for API automation testing, enabling comprehensive testing of API endpoints and payloads.
- **SoapUI:** Another automated testing tool suitable for API testing, providing features for functional testing, load testing, and security testing.

### 2. Penetration Testing (PenTesting):

**Objective:** Identify and exploit vulnerabilities in the platform to assess its security posture.

**Tools:**

- **Burp Suite:** A comprehensive toolkit for web application security testing, including manual and automated vulnerability scanning, request interception, and exploitation of security flaws.
- **Metasploit:** A penetration testing framework offering various exploits and payloads for testing network and application security.

### 3. Patch Testing:

**Objective:** Verify the effectiveness of security patches applied to the platform.

**Process:**

- Testing patches on a sandbox or staging environment ensures they do not introduce regressions or new vulnerabilities.
- Automated and manually tested critical functionalities affected by the patch to ensure they operated as expected.

### 4. Third-Party Testing:

**Objective:** Gain independent verification and validation of the platform's security measures.

**Process:**

- Engaging external security firms or independent security researchers to conduct thorough security assessments, including penetration testing, code review, and vulnerability scanning.
- Utilising bug bounty programs to incentivise external security researchers to discover and responsibly disclose security vulnerabilities in the platform.

### 5. Source Code Testing:

**Objective:** Evaluate the security of the platform's source



code to identify and remediate vulnerabilities and ensure robust protection against potential threats.

**Process:**

- The source code testing process for the platform begins with configuring and integrating tools like SonarQube and Checkmarx into the development environment.

**Tools:**

- **SonarQube:** Analyzes the platform's source code for bugs, vulnerabilities, and code smells, providing insights into code quality and security.
- **Checkmarx:** A static application security testing (SAST) tool that identifies security vulnerabilities in the source code, helping developers remediate potential issues before deployment.

### 6. Network Testing

**Objective:** The primary objective of network testing is to assess the security and resilience of the platform's network infrastructure, ensuring protection against potential threats and vulnerabilities.

**Process:**

- Network testing begins by examining the network infrastructure's configuration and setup to identify any potential weaknesses or misconfigurations.
- Comprehensive scans are conducted using specialised tools to analyse server ports, configurations, versions, and subdomains within the network.

**Tools:**

- **Nessus:** A powerful scanning tool utilised for comprehensive network scans, providing detailed insights into potential security risks and vulnerabilities within the network infrastructure.
- **Nmap:** Another widely used scanning tool that enables thorough examination of network configurations and identifies potential security loopholes and weaknesses.

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### Development Phase

- 01 **Requirement Gathering**  
Requirements were gathered through meetings and discussions to understand the platform's functional and non-functional aspects.
- 02 **System Design**  
Based on the gathered requirements, system architecture and design were finalised. It included defining the database schema, application modules, and integrations with external systems.
- 03 **Coding**  
Our developers wrote code according to the design specifications using programming languages & frameworks suitable for the platform's requirements.
- 04 **Quality Assurance**  
Our QA engineers conducted comprehensive platform testing, including source code, functional, security, and performance testing, that helped us identify & resolve any defects or issues.
- 05 **Review & Integration**  
The platform has undergone thorough code reviews to ensure its stability and performance. Our team addressed any feedback or issues identified during testing and made necessary integrations.



### Deployment Phase

- 01 **Preparation**  
The necessary infrastructure and environments were set up, including development, staging and production.
- 02 **Deployment Planning:**  
We have created a pitch-perfect deployment plan outlining the steps and procedures for deploying the platform to the production environment.
- 03 **Release Management:**  
Our team deployed the platform to the product environment following the deployment plan. It involved deploying code, configuring servers, and ensuring all dependencies were met.
- 04 **Monitoring and Optimisation**  
After deployment, our team continuously monitored the platform for performance, security & stability. We promptly addressed any issues or anomalies and made necessary changes.
- 05 **Post-Deployment Review**  
We conducted a post-deployment review to assess the deployment process's success and gather user feedback. Additionally, our team documented any lessons learned for future deployments.



## Project Methodology

Our team adhered to an Agile methodology during this project, fostering efficient and iterative development. We structured our workflow around sprints, each lasting two weeks, allowing us to focus on specific features and functionalities. Regular feedback sessions with the client, occurring after every sprint, were integral to our process. It ensured our work aligned with the client's evolving requirements and expectations.

Name	Price	24h %	7d %	Market Cap	Volume	Market Cap	Volume
Bitcoin BTC	\$46,869.65	-0.69%	+3.02%	\$881,308,384,824	\$14,345,278,988	\$14,345,278,988	\$14,345,278,988
Ethereum ETH	\$3,942.38	-1.88%	+3.02%	\$484,676,847,345	\$1,278,945,398	\$1,278,945,398	\$1,278,945,398
Binance Coin BNB	\$532.75	-0.48%	+4.52%	\$88,477,265,359	\$1,244,540,271	\$1,244,540,271	\$1,244,540,271
Tether USDT	\$1.00	-0.02%	-0.02%	\$78,295,398,867	\$7,545,779,918	\$7,545,779,918	\$7,545,779,918
Solana SOL	\$179.52	-1.16%	-4.41%	\$54,888,968,547	\$1,891,844,127	\$1,891,844,127	\$1,891,844,127
Cardano ADA	\$1.26	-0.86%	+1.81%	\$42,945,588,462	\$1,278,945,398	\$1,278,945,398	\$1,278,945,398
USD Coin USDC	\$1.00	-0.07%	-0.08%	\$41,945,807,072	\$1,278,945,398	\$1,278,945,398	\$1,278,945,398

Additionally, we employed project management tools such as Trello and Jira to streamline collaboration and task management, facilitating transparent communication and real-time progress tracking. These practices enabled us to maintain a dynamic and responsive development approach, ultimately delivering a high-quality solution that effectively met the client's needs.

## Timeline

- 01 Total months: **4 months**
- 02 No. of Resources: **2 Resources**
- 03 Experience of Resources: **Full Stack: 4+ Years**  
**DevOps: 5+ Years**