

Automated Crypto Trading Bot for MetaTrader 5

FAST NUCES



Meet the team



Mr. Amir Imam
Project Supervisor



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QA Analyst



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Web Developer



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Full Stack Developer

Project Vision & Mission

Vision: To empower retail traders by providing a secure, user-friendly, and reliable tool for automating cryptocurrency trading on the MetaTrader 5 (MT5) platform, enabling them to capitalize on market opportunities without constant manual oversight.

Mission: To develop a web-based application that seamlessly integrates with MT5, offering robust bot configuration, real-time market data, and transparent trade management. We aim to bridge the gap between sophisticated algorithmic trading and the everyday crypto investor who prefers the established environment of broker-mediated MT5 execution.

Scope

In-Scope: User Authentication, MT5 Integration, Bot Control (Start/Stop/Configure), Real-Time Crypto Market Data, Trade History Display, Curated News Feed.

Out-of-Scope: Support for non-crypto assets (Forex, stocks), native mobile applications (web-first approach), advanced strategy creation (e.g., custom coding), and direct exchange integration (MT5 only).

Key stakeholders

Product Owner

**Development
Team**

**Quality
Assurance (QA)**

User Personas

The Novice Trader

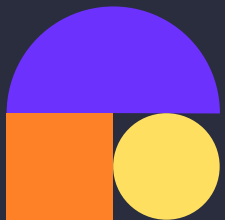
A user new to automated trading. They need a straightforward interface to set up and run a Bot with minimal complexity. They rely on the provided news and market data to learn and make informed decisions.

The Experienced Trader

A user with a good understanding of trading strategies. They require a robust platform to configure detailed Bot parameters and monitor trades in real-time. They value security and reliability above all.

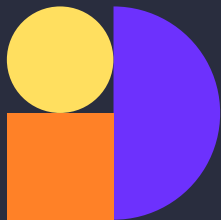
Key Features

Our platform is built around five core pillars to ensure a comprehensive user experience



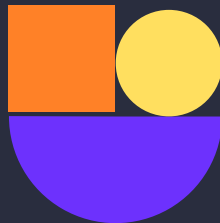
Secure User & Account Management

Secure user registration and login. Encrypted storage of user credentials and MT5 account details. Ability to connect and manage one MT5 account per user.



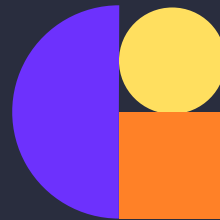
Intuitive Bot Control & Configuration

Simple "Start" and "Stop" functionality for the trading bot. Easy configuration of key trading parameters: Lot Size, Stop Loss (SL), Take Profit (TP).



Real-Time Market Data

Live price feeds for a wide range of crypto symbols. Customizable watchlist for users to monitor their preferred assets.



Comprehensive Trade History & Curated Crypto News Feed

Live price feeds for a wide range of crypto symbols. Customizable watchlist for users to monitor their preferred assets.

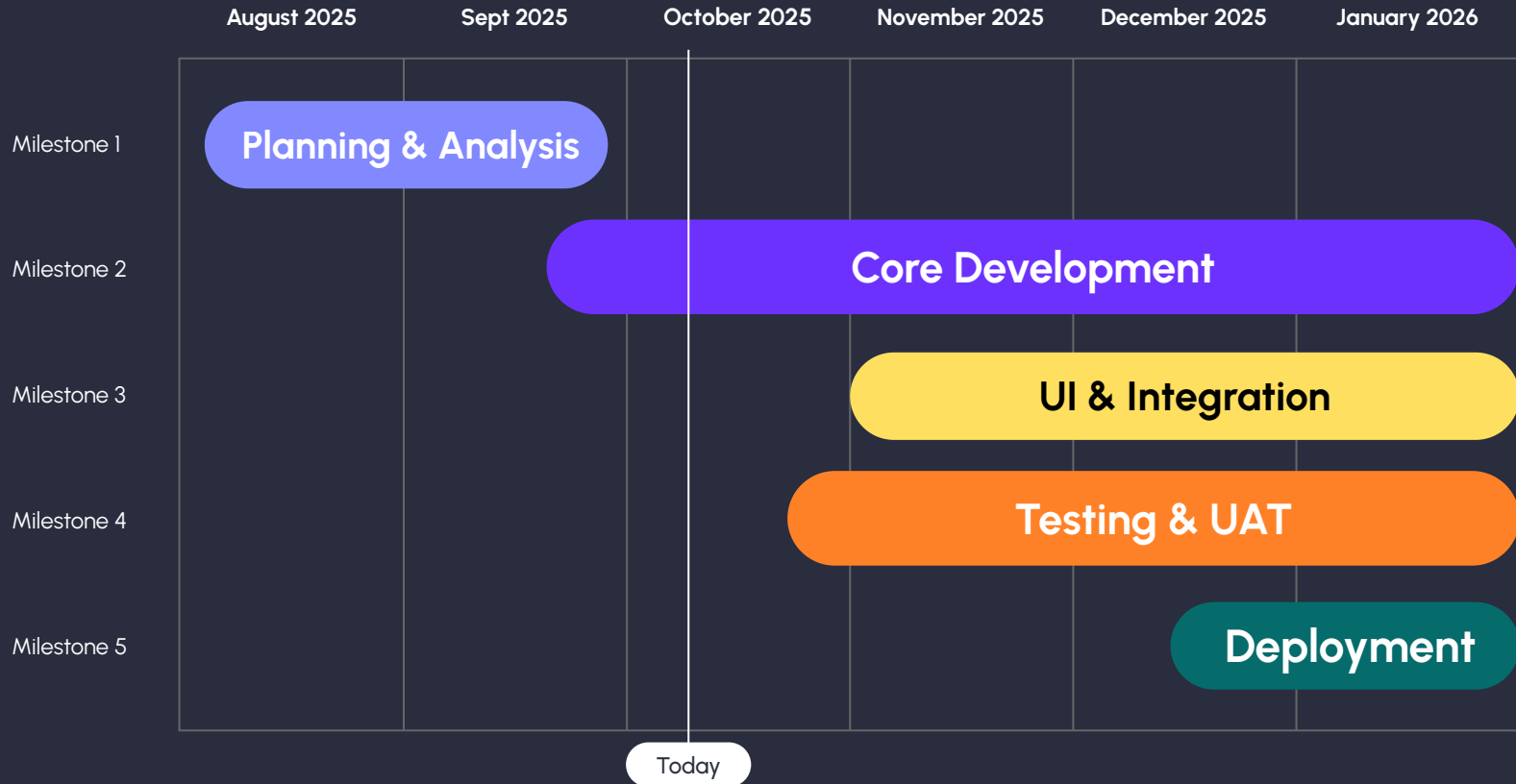
Comprehensive trade history showing all bot-executed trades, open positions, and profit/loss details.

Milestones & Timeline

Milestones

Key Milestones	Key Activities	Timeline	Phase
Project Kick-off & Architecture Sign-off	Requirements Gathering, Architecture Design, Database Schema	Sep 2025	1. Planning & Analysis
Backend Functionality Complete	User Management, MT5 API Integration, Backend Logic	Oct – Nov 2025	2. Core Development
Frontend Integrated with Backend	Frontend UI Development (Dashboard, Bot Control), API Integration	Nov – Dec 2025	3. UI & Integration
UAT Sign-off	Unit Testing, System Testing, User Acceptance Testing (UAT)	Dec 2025	4. Testing & UAT
MVP Launch	Production Setup & Initial Deployment	Early 2026	5. Deployment

Project Timeline – Key Milestones



Market Research & Competitive Landscape

The automated crypto trading market is diverse. Our product is strategically positioned to serve a niche that prefers the security and feature set of traditional brokerage accounts via MT5.

Aspect	Our MT5 Bot	Cloud (3Commas)	Self-Hosted (HaasOnline)	Copy-Trading (Zignaly)
Platform	MetaTrader 5 (Broker-based)	Crypto Exchanges (API)	Crypto Exchanges (API)	Crypto Exchanges (API)
Users	MT5 retail traders	All trader levels	Tech-savvy traders	Copy/social investors
Advantage	Broker-native, MT5 ecosystem, Crypto CFDs	Easy, reliable, multi-exchange	Custom, private, local control	Simple, social trading
Hosting	MT5 + Web app (self-hosted)	Cloud	Local/VPS	Cloud
Skill	Low–Medium	Low	High	Low
Edge	Bridges MT5 power with web UI for crypto	General automation	Custom scripting	Passive/social focus

Success Metrics

Success Metrics



Performance

The application's APIs maintain an average response time of **<500ms** under a simulated load of 100 concurrent users.



Availability

The trading bot and all associated services achieve **99.5% uptime** during active trading hours over the first three months post-launch.



Adoption

Achieve a target of **1,000 active users** within the first six months of operation



Availability

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**Any
questions?
Ask away!**



Thank you