**Project Report – Binance Futures Order Bot**

**(Simulated)**

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# Objective

To build a CLI-based Binance Futures Trading Bot that supports various order types using simulated logic and logs — no real API or trading account required.

# Features Implemented

* Market Orders
* Limit Orders
* OCO (One-Cancels-the-Other)
* TWAP (Time-Weighted Average Price)
* Input Validation
* Structured Logging

# Example Log Entry

|  |
| --- |
| 2025-08-08 18:10:21 | MARKET ORDER | BTCUSDT | BUY | Qty: 0.1 | Order ID: MO-181021 2025-08-08 18:11:00 | LIMIT ORDER | BTCUSDT | SELL | Qty: 0.05 | Price: 28000 | Order  ID: LO-181100 2025-08-08 18:12:34 | OCO ORDER - TAKE PROFIT | BTCUSDT | SELL | Qty: 0.05 | TP Price:  29500 | Order ID: OCO-TP-181234 2025-08-08 18:12:34 | OCO ORDER - STOP LOSS | BTCUSDT | SELL | Qty: 0.05 | SL Price:  27500 | Order ID: OCO-SL-181234 |

# Challenges

* Access to Binance APIs restricted due to age
* Simulated the API response to mimic real trading behavior
* Used CLI and logs to demonstrate core functionality

# Outcome

A full trading bot simulation ready for evaluation and submission.

# Screenshots

* CLI running market, limit, OCO, and TWAP orders
* Sample of bot.log showing entries
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