

1. Version

Version Code	Date	Author	Description
v0.1	2025年5月7日	@Danny Chen	<ul style="list-style-type: none">Draft
v0.2	2025 年 6 月 25 日	@Kunyu an Li	<ul style="list-style-type: none">Supplement the feature list and user flowSupplement Demo Trading Integration

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2. Basic Information

Business Requirement Document	<link>
Launch Platform	BTSE
Target Release	
Jira Ticket	
Figma	
Document Status	DRAFT
Business Owner	
Product Manager	
Project Manager	

Product Designer	
Data Analyst	

3. Problems to solve

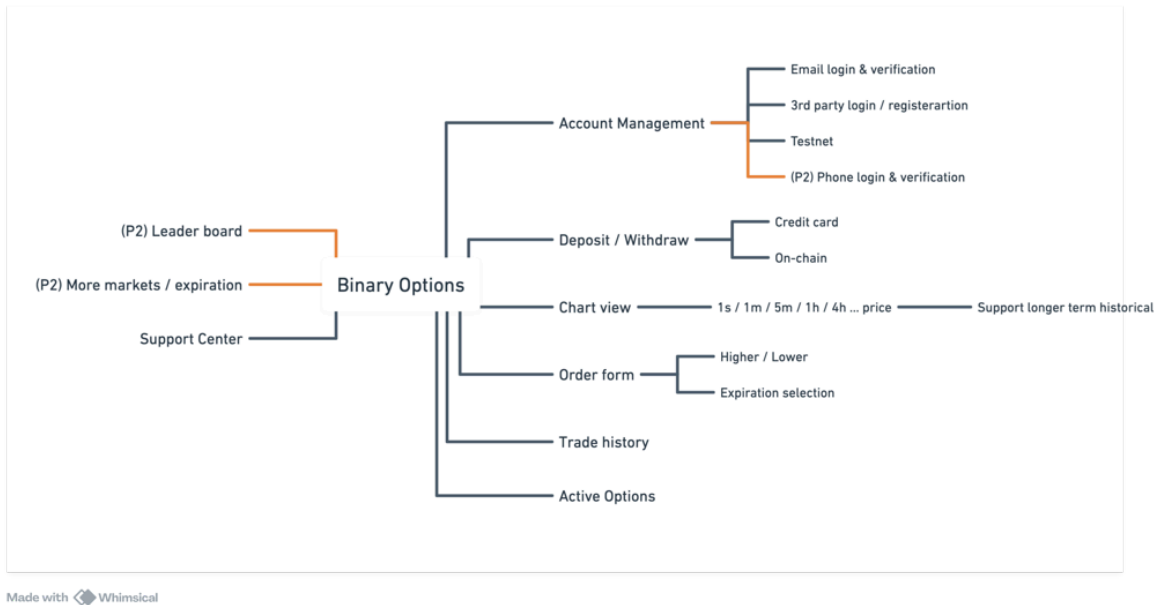
4. How can we address these concern?

1.

5. Success Metrics (Optional)

Success Criteria	Key Metrics	Data Specification	Data Report

6. Feature map / Scope



6.1 User Access & Onboarding Module

Feature	Requirement Description	Priority	Acceptance Criteria
Risk Disclosure	Force users to read and confirm risk disclaimer before first use	High	One-time mandatory acceptance with AML terms and investment warnings
Daily Betting Limits	Configurable betting limits per user account	High	Default: \$100,000/day, \$1,000,000/week, \$4,000,000/month (configurable)

6.2 Trading Interface Module

Feature	Requirement Description	Priority	Acceptance Criteria
Asset Selection	Support for multiple trading pairs (MVP: BTC/USDT only)	High	Future support for ETH/USDT, current focus on BTC/USDT
Round Duration	Multiple time options (MVP: 5 minutes only)	High	Future: 15 min/1 hr options, current: 5-minute rounds
Real-time Price Chart	Display live BTC/USDT price with Real-time Price Chart	High	6-hour historical chart with zoom, 1-second intervals
Price Feed Source	Multi-exchange weighted average pricing	High	BTSE + Binance + OKX + Coinbase weighted average with <1 second latency
Round Status Display	Show current round status with visual indicators	High	Clear LIVE/NEXT distinction with countdown timer
Countdown Timer	Visual timer with lock warning	High	Red warning when <30 seconds remain, auto-disable betting
Demo/Live Toggle Switch	Mode selection mechanism between real/play money	High	Switch located at top-right of trading interface. Toggles mode in real-time with confirmation prompt and UI refresh.

6.3 Betting System Module

Feature	Requirement Description	Priority	Acceptance Criteria
Direction Selection	Binary UP (call) / DOWN (put) betting options	High	Clear button interface with visual confirmation
Bet Amount Rules	Configurable min/max betting amounts	High	Min: \$10 USDT, Max: \$10,000 USDT per round
Amount Input Interface	Manual entry plus quick selection shortcuts	High	Quick buttons: 25%/50%/75%/100% of balance + manual input
Balance Validation	Real-time balance checking before bet acceptance	High	Prevent betting with insufficient funds
Bet Confirmation	Show expected payout and require final confirmation	High	Display potential winnings and reward multiplier before placement




Virtual Balance Management	Simulated currency system for demo trading	High	Demo account starts with \$10,000 virtual balance. Updated after each bet. Reset button available in profile settings.
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6.4 Information Display Module

Feature	Requirement Description	Priority	Acceptance Criteria
Pool Dashboard	Live betting pool information display	Medium	Show total prize pool, UP/DOWN ratio, current reward multiplier
Balance Display	Real-time user balance updates	High	Real-time updates: Real balance for live mode, virtual balance for demo mode. Clear "Live"/"Demo" mode indicator next to balance.
Current Bets Display	Show user's active bets for current round	High	Display amount, direction, and potential payout

6.5 Settlement System Module

Feature	Requirement Description	Priority	Acceptance Criteria
Price Locking	Automatic price lock when round begins	High	Precise timestamp and price recording at round start
Auto-Settlement	Automatic result calculation after round expiry	High	Trigger within 3 seconds of round end
Settlement Logic	Price comparison for win/loss determination	High	UP wins if end > lock price, DOWN wins if end < lock price, Draw returns bet
Payout Distribution	Instant transfer to user accounts with fee deduction	High	Calculate: $(\text{Bet} \times \text{Multiplier}) \times (1 - 3\% \text{ fee})$
Result Display	Auto-display outcome notification	High	Clear win/loss notification with payout amount
Payout Distribution	Funds transfer mechanism	High	Live mode: Winnings = $(\text{Bet} \times \text{Multiplier}) \times 97\%$ with real record. Demo mode: Virtual balance update only, no real transactions.

Result Display	Visual outcome notification system	High	Color-coded indicators + "SIMULATED" tag for demo transactions. (e.g. Green  for wins, gray  for losses, yellow  for draws. "SIMULATED TRADE" label for demo results.)
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6.6 User Interface Components

Page/Component	Critical Elements	Priority
Main Trading Screen	Five-section layout: <ol style="list-style-type: none"> Header (Asset/Time selector + Live/Demo toggle) Central (Chart + Price panel) Status area (Countdown + Prize pool) Control area (UP/DOWN buttons + Amount input) Footer (Current bets + Account balance with mode indicator) 	High
History Page	Personal bet history, public round results, PNL statistics	Medium
Profile/Settings	Sections: <ul style="list-style-type: none"> Bet limits Risk preferences Virtual account management (Balance reset) 	Medium

6.7 Risk Management Module

Feature	Requirement Description	Priority	Acceptance Criteria
Price Feed Monitoring	Exchange price validation	High	Halt rounds if price delay >1 second from BTSE
Bet Limitation Enforcement	Maximum betting limits per user per round	High	Enforce \$10,000 maximum per round per user

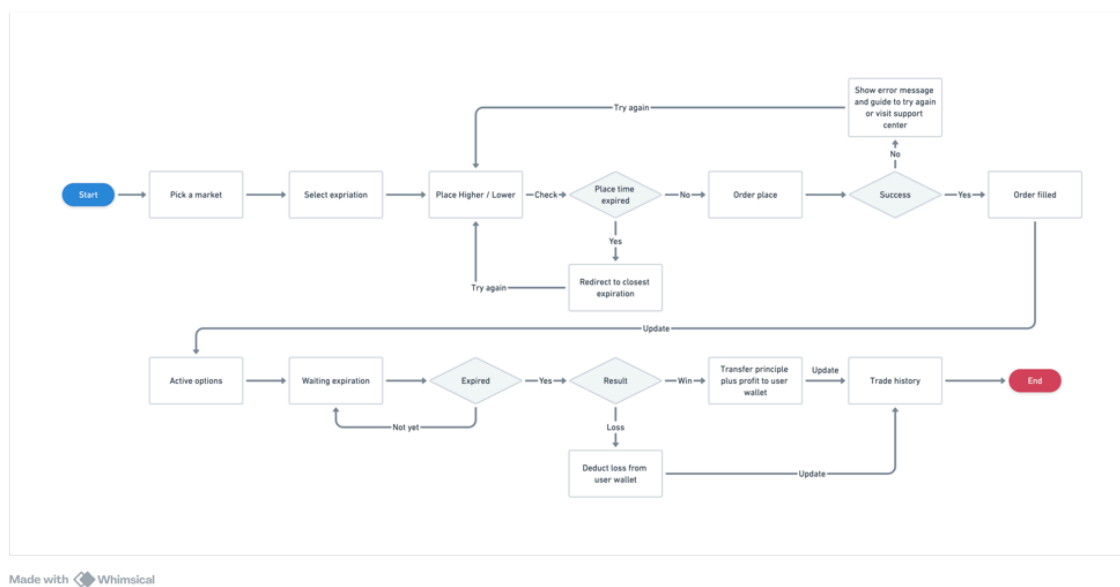
6.8 Business Rules & Monetization

Rule Category	Description	Implementation
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Platform Revenue	3% fee deducted from winning payouts only	Automatic calculation in settlement system
Minimum Requirements	\$10 USDT minimum bet, 18+ age requirement	Frontend and backend validation
Round Management	Fixed 5-minute rounds	Automated timer system
Demo Trading Rules	Virtual economy framework	<ul style="list-style-type: none"> \$10,000 initial virtual balance Virtual balance reset option Demo data never enters financial systems

7. Requirements

7.1 Main User Flow



Phase	User Actions	System Feedback
Preparation	1. Agree to AML terms 2. View tutorial tips	<ul style="list-style-type: none"> Unlocks feature access Displays initial reward multiplier
Betting	1. Select UP/DOWN 2. Input amount (≥ 10 USDT) 3. Confirm payment	<ul style="list-style-type: none"> Shows estimated returns in real-time Deducts balance from account
Waiting	Observe real-time price fluctuations	<ul style="list-style-type: none"> Live price updates dynamically Modifications/cancellations disabled
Settlement	No action (automatic)	<ul style="list-style-type: none"> Results pop up after 5 minutes

		<ul style="list-style-type: none"> • "Collect Prize" button shown to winners
Conclusion	1. Instantly claim prize OR 2. Claim via history page	<ul style="list-style-type: none"> • Prize instantly credited to spot account • PNL dashboard updated

Key Terms Clarification:


- **AML Terms:** Anti-Money Laundering regulations
- **Reward Multiplier:** Reward coefficient (e.g., bet 100 → win180 if 1.8x)
- **Locked Price:** Asset price at round start
- **Settlement Price:** Asset price at round end
- **PNL:** Profit and Loss statistics (historical performance)

7.2 BTSE Web

	Requirement	User Story	Notes
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8. Future Plan (Optional)

9. References

- Mockup:  [Figma](#) password: bo888
- Competitors:
 - <https://iqoption.com/traderoom>
 - <https://rollbit.com/trading/BTC>