**CRYPTO AB-FM**

**PROJECT REQUIRMENTS:**

* Crypto exchange platfoam:
  + The website will serve as a cryptocurrency exchange platform.
  + Users should be able to buy and sell various cryptocurrencies.

**User-Facing features:**

Trading Platform:

* + - Enable users to place market and limit orders.
    - Provide real-time charts and trading history.

Wallet Integration:

* + - Allow users to connect their cryptocurrency wallets to the platform.
    - Display wallet balances and transaction history.
  + User Accounts:
    - Allow users to register, log in, and enable two-factor authentication.
    - Provide a dashboard for users to track their portfolio.
* Admin-Facing Features:
  + Currency Management:
    - Enable administrators to add, edit, and remove supported cryptocurrencies.
    - Manage trading pairs and their associated fees.
  + User Management:
    - Allow administrators to view user details, monitor user activity, and manage user accounts.
  + Security Monitoring:
    - Implement tools for monitoring and addressing security threats.
    - Admin alerts for unusual activities or suspicious transactions.
* General Functionalities:
  + API Integration:
    - Integrate with cryptocurrency market data APIs for real-time price updates.
    - Implement APIs for third-party services (wallets, payment processors).
  + Security Best Practices:
    - Implement secure coding practices to safeguard against common crypto-related vulnerabilities.
    - Regularly audit and update security protocols.
  + Scalability:
    - Design the platform to handle a large number of concurrent users and trading activities.
* IDENTIFY TECHNICAL CONSTRAINTS AND CONSIDERATION:

1. Blockchain Integration:
   * Decide on the blockchain(s) to support and integrate with for transactions.
2. Regulatory Compliance:
   * Understand and comply with cryptocurrency regulations in relevant jurisdictions.
3. Cold Storage Implementation:
   * Consider implementing cold storage for storing a significant portion of user funds securely.
4. Liquidity Management:
   * Implement strategies for maintaining sufficient liquidity in the exchange.

* Create User Stories:

1. Explore Cryptocurrencies
   * As a visitor, I want to explore a list of available cryptocurrencies and their key statistics.
2. User Story 2: Place a Trade
   * As a trader, I want to place a market or limit order on the platform.
3. User Story 3: Connect Wallet
   * As a user, I want to connect my cryptocurrency wallet to the platform for seamless transactions.
4. User Story 4: Register and Log In
   * As a user, I want to register for an account, log in, and enable two-factor authentication for security.
5. User Story 5: Administer Cryptocurrencies
   * As an administrator, I want to manage the list of supported cryptocurrencies and their trading pairs.
6. User Story 6: Monitor User Activity
   * As an admin, I want to view user details, monitor user activity, and manage user accounts.
7. User Story 7: Security Alerting
   * As an admin, I want to receive alerts for any unusual activities or suspicious transactions on the platform.
8. User Story 8: API Integration
   * As a developer, I want to integrate the platform with external APIs for real-time price updates and third-party services.
9. User Story 9: Regulatory Compliance
   * As a stakeholder, I want the platform to adhere to relevant cryptocurrency regulations in different jurisdictions.
10. User Story 10: Cold Storage Implementation
    * As a security officer, I want to implement cold storage solutions to securely store a significant portion of user funds.