**Layout of The Crypto Trading Bot**

To develop a crypto bot the major functionality would be :

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| S.No | Functionality | Description |
| 1 | Architecture Design | The developer will design the architecture and system layout. It will include web designing, bot strategies like arbitrage. Algorithm design to accomplish dry run of the iteration to achieve the goal of earning profits |
| 2 | Web Interface Design | The developer will design a complete user interface with the detailed functionalities: 1. Sign-In/Sign-Up 2. Wallet Integration 3. Exchange Integration  4. Trade page  5. Portfolio  And all based on the requirements |
| 3 | Database Design | For managing the central database the developer will have to design the database architect |
| 3 | Smart contract Development | Flash Loan contract Arbitrage Smart contract Bot Smart contract |
| 4 | API Integration | All third party API integration  Integrate different exchanges like Uniswap, Shushiswap, Aave, etc to perform arbitrage. Fetch the prices based on the token pairs. Perform auto buy/sell triggers. Implementation of pricing model and comparing and storing the result in an efficient way. |
| 5 | Deployment | Deployment of smart contract on test-net first Once complete testing is done the developer will move onto the main net. **Note:** For main-net deployment, Ethereum will be supplied |
| 6 | Integration of Smart contract with Web3 | The developer will integrate smart contract using the available libraries and call the contract API based on the required functionality |
| 7 | Testing | The developer will perform manual testing on the bot |