Project Roadmap

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The application roadmap is broken down into 5 phases.

- Phase 1: Basic Functionality, UX and UI
- Phase 2: Liquidity Pool Provider Functionality
- Phase 3: Performance
- Phase 4: Holistic DeFi Platform
- Phase 5: Cost/Benefit Analysis of AMM/Order Book model.
- Phase 6: User Engagement and Monetization (TBC)

Phase 1 (Basic Functionality, UX and UI)
- Resolution of contract logic errors for certain pairs
  - Highest priority, certain pairs through the uniswap-python package do not allow for price comparisons to get target token amount (may need to use web3 package instead)
- Error Handling for insufficient funds in wallet.
  - Currently Application crashes on error. Easy to fix.
- Security Plan
  - Need to assess what security measures will need to be implemented. For example, eventually a database will be required for the application as a result, additional measures such as SQL injection protection will need to be incorporated into the plan.
- Dynamic forms to calculate token conversions, price impact and more, rather than the information only being visible in the confirmation page (will utilize the javascript onblur event)
- Improvements to calculating price impact
  - Currently price impact estimates are inaccurate, this is a high priority.
- USDT support (currently not working) and displaying currency conversion rates to give users an idea of fiat values for their swaps.
- Metamask integration
- Improved UI and Rebrand application
  - Application will need to be rebranded as it will eventually serve as a holistic DeFi platform rather than a simple token swap DEX. This will include major upgrades to the UI which will be in line with the new brand direction.

Phase 2 (Liquidity Pool Functionality)
- Portal for liquidity providers to add liquidity to the Uniswap pools.
  - UI will allow for investors to compare benefits from different pools.
- Wallet Management page to show existing tokens and balances.
- Check and show user liquidity in the pool when swapping, prevent orders being placed greater than available liquidity. Further breakdown of price impact to be provided to user aswell.
- Advanced gas pricing strategies made available to user as well as the ability to set parameters such as max slippage. Essentially giving more control over transaction costs to the user.

Phase 3 (Performance)

- Implementation of other layer 2 strategies (such as Loopring), with a built-in optimization algorithm to identify the best performing for a swap by optimizing for lowest gas fee (with the option for manual override)
- Allows us to capitalize on advancements in different layer 2 strategies

Phase 4 (Holistic DeFi Platform)

Facilities to be made for the following features.

- Yield farming
- Taxation reporting or api for crypto tax software (such as koinly.io integration)
- Staking
- Portfolio dashboard (showing returns across different facilities)
- Investigation of ICO support
  - Need to investigate what facilities can be made available to users to assist in ICOs and if there are other strategies for us to monetize this.
- Investigation of additional features in DeFi space
  - Like investigating ICO support, we will look to identify other areas in the DeFi space that we can provide value in, as well as monetize.
- Fiat currency support
  - Support fiat deposits, withdrawals, and swaps.

Phase 5 (Investigation of AMM/Order Book model)
- Investigation and Cost/benefit analysis of switching to an order book model or hybrid AMM-order book model (such as Onomy Protocol).

Phase 6 (User Engagement and Monetization) (TBC)
- The goal of this phase is to look at ways to boost user engagement through the design of the application, focusing engagement on streams that will provide a benefit to the business. This is mostly a conceptual phase at this point, however one example would be a recommendation model that customises the users dashboard.