Design Doc: Team 2003 Honda Civic

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Roles:

Noah - API Management

Jack - Database Management

Chloe - app.py and backend

Sebastian - frontend

Asher - Project Manager

Database Schema:

We will have one database: database.db. In this database.bd, there will be a few tables:

- users
  - username TEXT
  - password TEXT
  - userId INTEGER
  - email TEXT
  - addr1 TEXT
  - addr2 TEXT
  - addrCity TEXT
  - addrState TEXT
  - addrZip TEXT
  - nameF TEXT
  - nameL TEXT
  - phone TEXT
  -
- posts
  - owner TEXT
  - postId INTEGER
  - title TEXT
  - startingPrice INTEGER
  - date FLOAT
  - expires FLOAT
  - active INTEGER
  - imageLink TEXT

- - ○ description TEXT
  - ● bids
    - ○ bidder TEXT
    - ○ postId INTEGER
    - ○ bidId INTEGER
    - ○ price INTEGER
    - ○ date FLOAT
  - ● sales
    - ○ postId INTEGER
    - ○ bidId INTEGER
    - ○ saleId INTEGER
    - ○ date FLOAT

I will use the file utils/dbManager.py to interact with the database. There will be the following methods in this file:
- ● update_posts()
- ● new_post(owner, title, startingPrice, period)
- ● get_post(postId)
- ● get_posts(number)
- ● get_posts_by_username(username)
- ● new_bid(bidder, postId, price)
- ● get_bid(bidId)
- ● get_bids(postId)
- ● lowest_bid(postId)
- ● log_sale(postId, bidId)
- ● end_post(postId)
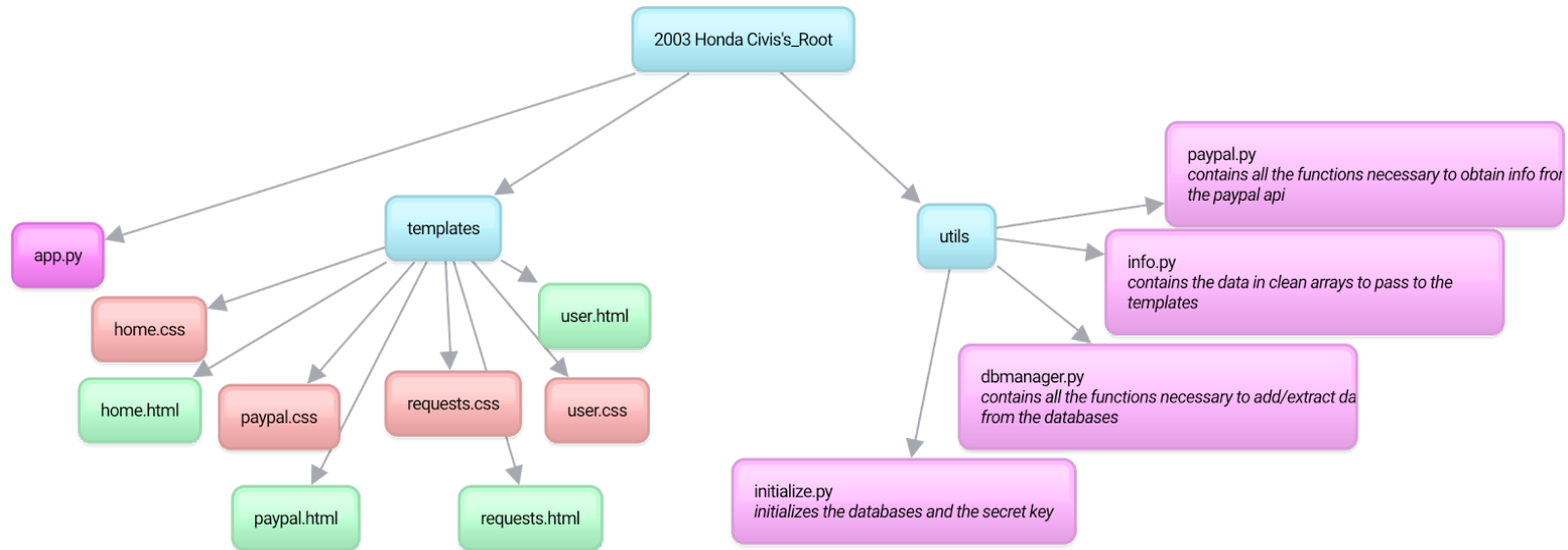
Site Map:
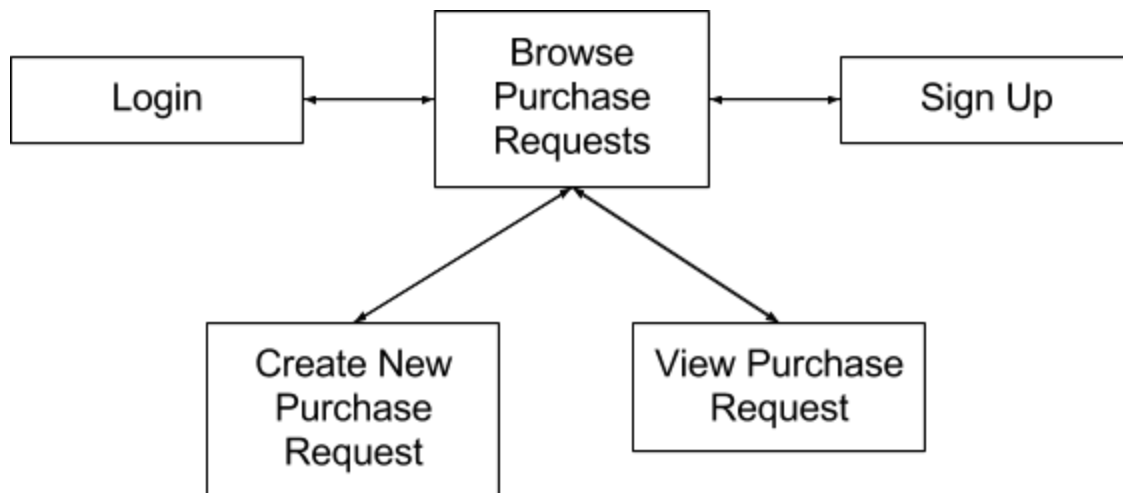
API Information:

APIs to be used: PayPal

PayPal: used to create an invoice from the seller to the buyer

      Functions: create invoice, check if invoice has been paid, create shipping label (extra feature)

API calls will be done with requests library

File Tree

Examples of potential routes:
- Home page: @app.route("/")
  - Includes a login and registration form
  - These forms will be where a user is redirected to if (s)he tries to buy/sell something without being logged in
- User account: @app.route("/user")
  - Shows all account information
    - Items bought
    - Items sold
    - Buy requests
    - Sees items you've saved (potential save for later option)
- Buy requests: @app.route("/requests")
  - Shows all posts of requests people have made and prices they're willing to pay
- Paypal: @app.route("/paypal")
  - Shows all relevant information about your paypal account
    - All your transactions
    - How much money is on your account