

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.db, there will be a few tables:

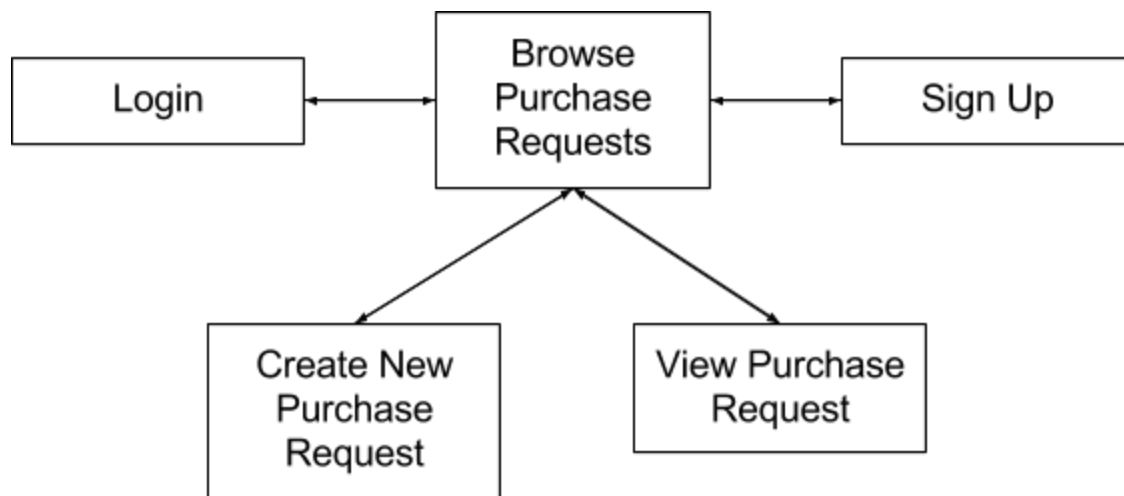
- users
 - username - TEXT
 - password - TEXT
 - userId - INTEGER
- posts
 - userId - INTEGER
 - postId - INTEGER
 - name - TEXT
 - startingPrice - INTEGER
 - expiration - date?
- bids
 - postId - INTEGER
 - bidId - INTEGER
 - userID - INTEGER
 - price - INTEGER
- sales
 - saleId - INTEGER
 - date - date?
 - price - INTEGER

I will use the file utils/dbManager.py to interact with the database. There will be the following methods in this file:

- login

- register
- post (post an item for to buy)
- bid
- logSale
- search
- Other Stuff that we need as we build the project

Site Map:



API Information:

APIs to be used: PayPal, Clarifai, Cloudinary

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)

Clarifai: used to tag pictures to allow users to find items better

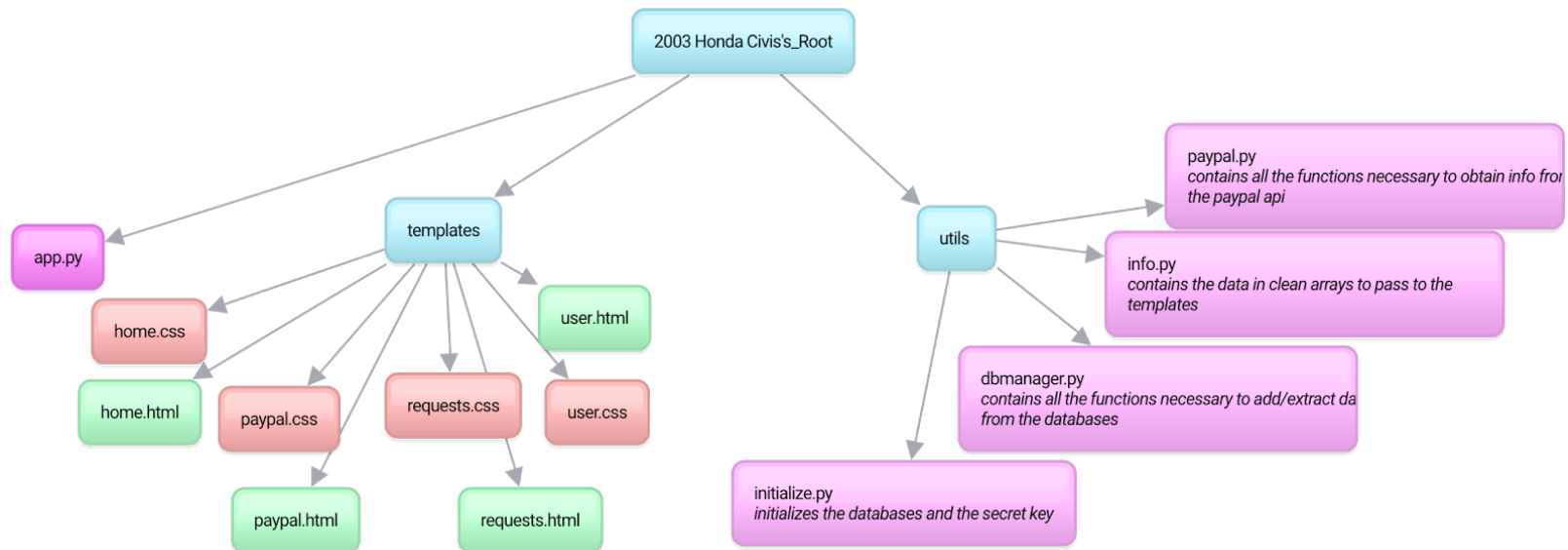
Functions: tag an image

Cloudinary: used to host photos

Functions: upload an image, retrieve an image

API calls will be done with requests library

File Tree:



created with www.bubbl.us

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