Air-Home Documentation

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1. <u>Overview</u>

- This site is designed to allow users convenience in booking temporary housing or creating listings to rent out their homes. A user can make an account to perform functions such as creating and editing their own listings, searching for any listings to reserve, and performing changes to the reservations they have currently.

2. <u>How to run</u>

```
To run you need python or python3
In a terminal install pip using the command:
        "python get-pip.py"  or  "python3 get-pip.py"
once installed use the command:
        "pip install Flask" or "pip3 install Flask"
In a terminal run it by using:
         "python index.py"   or   "python3 index.py"
it will output this:
        * Serving Flask app 'index'
        * Debug mode: on
        WARNING: This is a development server. Do not use it in a production deployment. Use a
        production WSGI server instead.
        * Running on http://127.0.0.1:5000
        Press CTRL+C to quit
        * Restarting with stat
        * Debugger is active!
        * Debugger PIN: 425-279-667

copy the link it gives you, in the example above it is "http://127.0.0.1:5000"
copy and paste into a browser
to STOP the process press Ctrl+C in the terminal
```

FILE and FOLDER PURPOSES:
   Folders:

Htmlcov: contains anything relevant to view the coverage report in a browser
  Static: stores any images that are referenced in the html parts of the program
  Templates: stores all html files
Files:
"Each file has comments at the top on how to run them"
  Index.py: used to start the application so it can be viewed in a browser
  Init_db.py: used to manage the SQL tables in users.db
  Test_app.py: used to preform coverage test

Databases:
Users.db: contains the tables that the application uses

3. <u>Functional Requirements</u>

- Homepage: Serves as an introduction to the site

- Login page: Allows users to either log in to the site with their account using the proper credentials or creating a new one

- Search Listings page: Allows users to look through existing properties to reserve

- Create Listings page: Enables users to create their own listings to rent out their own properties for housing.

- Payment page: Lets users pay for the listings they currently have reserved and set the dates for when and how long they're staying.

4. <u>Non-Functional Requirements</u>

- Security: User's credentials ensured to be secure through encryption

- Scalability: Available for use in various regions

- Sustainability: It should be up and available 98% of the time

- Utility: Fast response time to user input

- Maintainability: Have helpful error messages

1. <u>Requirements Model</u>

```
                                                        about()──▶  About Us                              create()────▶  Create

  ○
  |
 ─┼─   ──Website──▶  Homepage   ─login()─  Login Page  ──user()──▶  User   ──booking()──▶  booking
 / \
 --                                                      search()──▶  Search                              cart()──────▶  cart

                                                                                                          edit()──────▶  edit
```