

Platform

For backend server and the database, we will use the CS UGrad Oracle installation and JDBC.

For front-end, we will use basic HTML and CSS for the web pages. We may try to use React or Angular as front-end framework.

Functionality

1. A student can log in the platform.
2. A student can switch views between host and traveler.
3. A student can deactivate his or her account.
4. A student can register as a host.
5. A student can register as a traveler.
6. A student can update his or her personal information.
7. A host can post postings for renting his or her place.
8. A host can edit his or her existing postings.
9. A host can delete his or her postings.
10. A host can review a traveler.
11. A host can change his reviews.
12. A traveler can view all the postings.
13. A traveler can filter by date.
14. A traveler can search some postings by posting id.
15. A traveler and a host can sign a contract.
16. A traveler can review a residence that he or she has lived.
17. Staff can log in as an administrator.
18. Staff can set a host to be checked.
19. Staff can view all contracts.
20. Staff can delete postings with inappropriate information .

Data

For data collection, we will generate a set of mock data for testing and display purpose. Also we will make sure that the data size is reasonable considering scalability. We will also generate a series of data for testing some edge cases. We will generate data to make sure all functionalities can be successfully tested.

We have included the design schema inside the folder, and our data will be set based on the schema. We will make sure that each table in the schema has corresponding entries filled in with generated data.

Division of Labour

Jiayi Bao: Front-end implementation and test. Implement Layout for postings and residences details. Implement Log In, register, review functions. Implement view of staff and functions such as changing verification status of host, deleting posts.

Sheng Di: Front-end implementation and data generation. Will be in charge of the two views of traveler and host, the page of administrator and implement the search, edit panels.

Ziyang Jin: Back-end implementation and API design. Set up connection between front-end and back-end. Design how each components communicate with each other.

Zi Wen Li: Back-end implementation and database connection. Implement the logic layer that bridges presentation to database. Query optimization and feature modularization.

Feedback

Some suggestions on how to improve the efficiency and performance.

Some feedbacks on functionalities of the platform