User Manual:

Considering the UI is text-based, to make it easier on the user one only needs to type in the option number for the options provided on screen to follow a flow. Empty input, i.e. newlines, usually restart the current flow except where specified.

On start up, the user is prompted to sign in, sign up , view reports or exit.
- Viewing reports allow user to view all report requested in the project requirements.
- Signing up goes through a user creation flow where all items are required and you have to restarting if the format is wrong or blank.

You can then sign in with the email and password provided. From there, the user can:
- Search and filter listings to make a booking
- View/cancel their own bookings on listings
- View their own listings to add/remove a listing, add/edit/delete availabilities, view/cancel bookings on a listing, view comments on a listing
- View comments on their profile
- View/add/delete their payment information
- Delete their account, which requires the user to type in their email and password
- Go back

System Limitations:
- Text based, which makes it difficult to communicate with the user in terms of getting valid or empty input, specially when filling forms, for example, when searching with some filters but not others.
- Also, visuals like a location map and availability calendars cannot be implemented.
- User security is not well developed.
- Credit information is mostly for show, theres no proper implementation of checks on valid info, nor on the validity of bookings based on whether a user has 'paid' for it or not.
- Validity of property listing cannot be checked, which is to say, how a host would prove they are allowed to rent out the location they list.

Improvements:

- Extract all ENUM variables from the database into their own tables with ids that are foreign keys in the original tables, for flexibility in modifying certain statuses in the database. This was done for amenities which was mentioned in the report, but elaborating on this further would be useful for adding more options.
- Increased security measures for user sign ins, specifically with password protection and security.
- Implementing card numbers checks. There are certain number tricks that can check a card before its even saved, for example, what type of card it is can be double checked using the first digit, which tells us if its Visa, Mastercard, etc.
- Developing admin/employee accounts to view reports and flag/prohibit commercial hosts, as well as make modifications to the system, for example, adding more amenities for users to choose.
- Storing certain deleted data, such as comments and ratings on a listing, even if the user who made the comment has deleted their account. This would let future users know about a listing, even if the user isn't there.
- Storing and notifying a user in some way when their booking has been canceled by the other person.
- Make it so that every time a new availability or booking is made, all availabilities for that listing are checked so that availabilities that are contiguous and identical in all but the start and end date can be merged and put in one row.