

Design Description Documentation

Documentation for any major design choices and their explanation.

Back End

- Usage of Request classes
 - Holds information sent from the front end that would not usually correspond with a model class
 - For example, for logging in, only a username and a password would be sent to the backend for processing - So a request object is used instead of an actual model object
 - The only important difference between the two object types is that request objects are not Springboot entities, and so does not and will not interact with any repositories whatsoever
 - They are specifically used to just hold the values from the front end, where the controller and/or service classes will handle the processing of that information
- Usage of CustomException classes
 - Although all are similar in name, they help to provide a custom exception to use
 - Mostly used in enforcing business and database rules by throwing an exception before it can affect the database
 - As these exceptions are coupled with an error message, it also allows for the controllers to output a detailed message for use in the front end in terms of further processing or displaying to the end-user.

Front End

- Use of hooks in the front end
 - It was decided that hooks was easier to code with and more easily structured so the majority of the front end code going forward will be done utilising react hooks
- Redux is used to store the states and to make async actions
 - Although we could have made api calls from the actual page itself, it was decided that redux should make the async actions and api calls as most of the data passed from the backend will be stored by Redux
- Made significant improvement to the design of the User Dashboard main page by incorporating the use of card components as to depict services offered, in which the user can click on the service and it would take the user to the booking page, (subject to change) as there are user stories based on a different approach rather.
- Designed and implemented a sidebar feature (Navigation bar) on the header bar, which would to be further advanced in terms of features going forward, where it would have a link to a dashboard of the users bookings