

Mar 24/25 Mobile application update

ParkingEaze Mobile

Grading for this milestone:

/1 Completed: Survey regarding substantial completion of this term

/1 Participated: Online session

/2 Login activity

/2 Data visualization activity

/2 Action control activity

/1 Modified Code Files in Appendix

/1 Link to Complete Code in Repository

Login Activity

The activity that requires the user to login with the username and the password but before that when the user click on the homescreen icon, it will be followed by splash screen.

Splash screen

When the user clicks on the homescreen of the application, the splash screen will appear for the duration of 3 seconds followed by a login screen that will ask user to login.



Figure 1 login screen view of the application



Figure 2 splash screen view of the application

Then comes the login screen where the user will have ability to enter the username and the password in order to login the application. It also has the option to register which will let the user for registration if the user is not registered yet.

Action Control Activity

After the user is logged in the mobile application, the location for the parking the vehicle are to be chosen from three options which are Humber Parking1, Humber Parking2 and Humber Parking3(Figure 3). The dialog box is displayed which shows these choices to user. When the user clicks on one of the options then a new screen appears which asks the user to choose an empty parking spot(Figure4). The slot turns green to red (Figure5)after the user booked it and therefore the spot to park the vehicle has been booked by the customer through the android application. Also, when the user opens the mobile application, it displays a runtime permission asking the user to provide the location access to the android application.



Figure 3 ;user asked to choose the parking location

Data visualization activity

The user enters the date, time and for how long the vehicle is to be parked. There are 6 slots for the user to choose from. Once the slot is reserved, it turns red from green.



Figure 4 the parking slots are shown which are empty

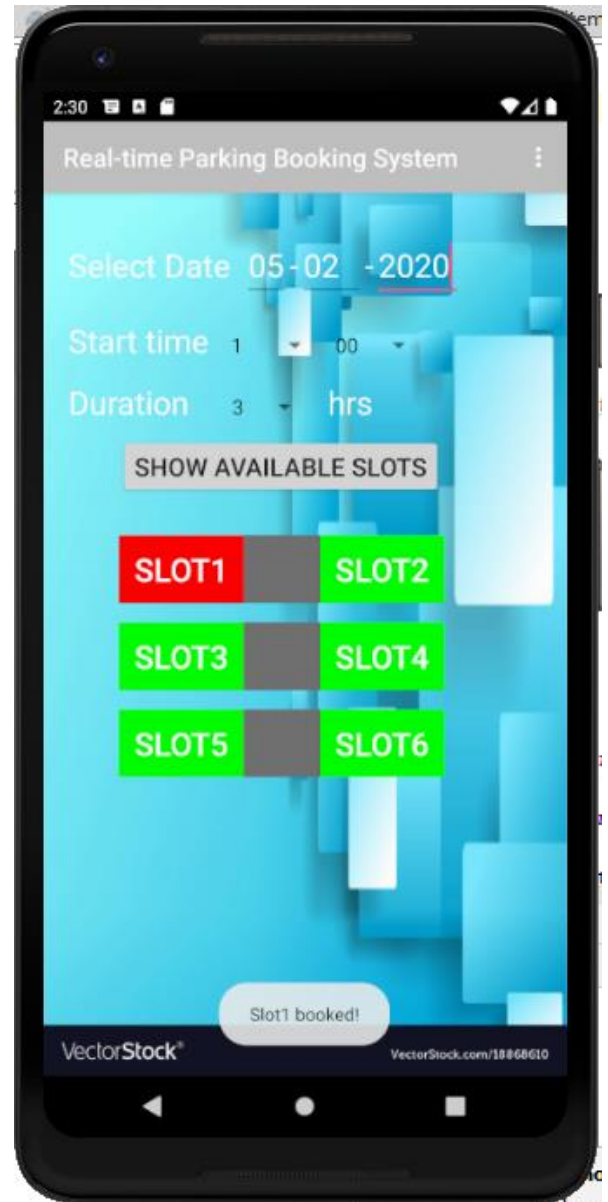


Figure 5 the user booked the parking slot which turns red

It displays a 'slot1booked' message for around two or three seconds such as when slot1 is booked at the bottom of the screen. This is shown using the toast activity in android studio.

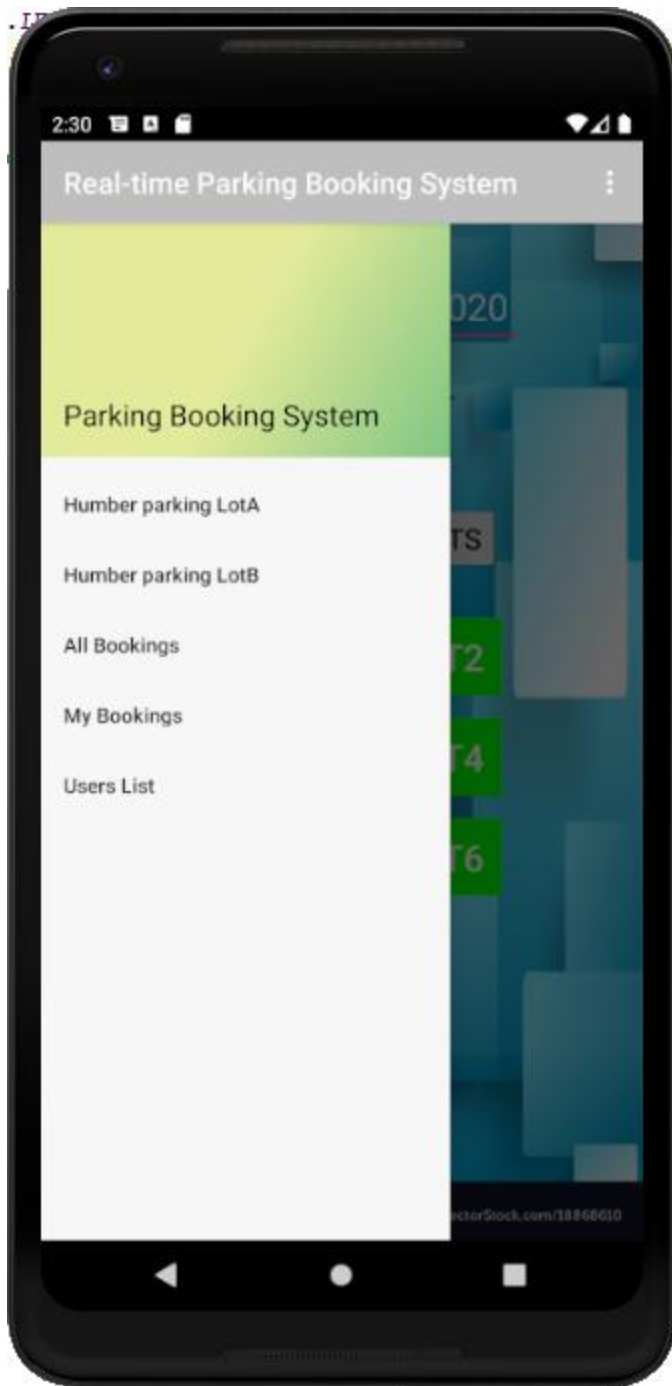


Figure 1 the navigation drawer layout has been implemented

The above figure shows the navigation drawer layout feature used to display options for the user to choose from.

[Link to complete code files in repository.](#)

<https://github.com/NavkiranKaur/ParkingEaze/tree/master/code%20files>

