

Practical-10

Aim: To implement minimum 5 functional modules of our project, & to design test cases for our project and perform testing.

Project Title: Payment Making System

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Modules Implemented: (In ascending order)

1. Registration Activity
2. Login Activity
3. Forgot Password Activity
4. Welcome Activity
5. Ticket Booking Activity (For Flight, Train & Bus)

1. Registration Activity:

First of all, when a user opens our application, he/she will be directed to the login page (Fig. 1.1), where user being a new one, can click on 'New User?' link to get registered in our database first. By clicking on it, he/she will be redirected to registration page (Fig. 1.2), where by entering all the necessary details (name, age, email, password), user can click on sign up button, after which a verification mail will be sent to the email entered by him/her. After clicking on the link for verification sent to user's email id, he/she will get verified and hence he/she will be able to login in our application. Process will be completed via Firebase database.

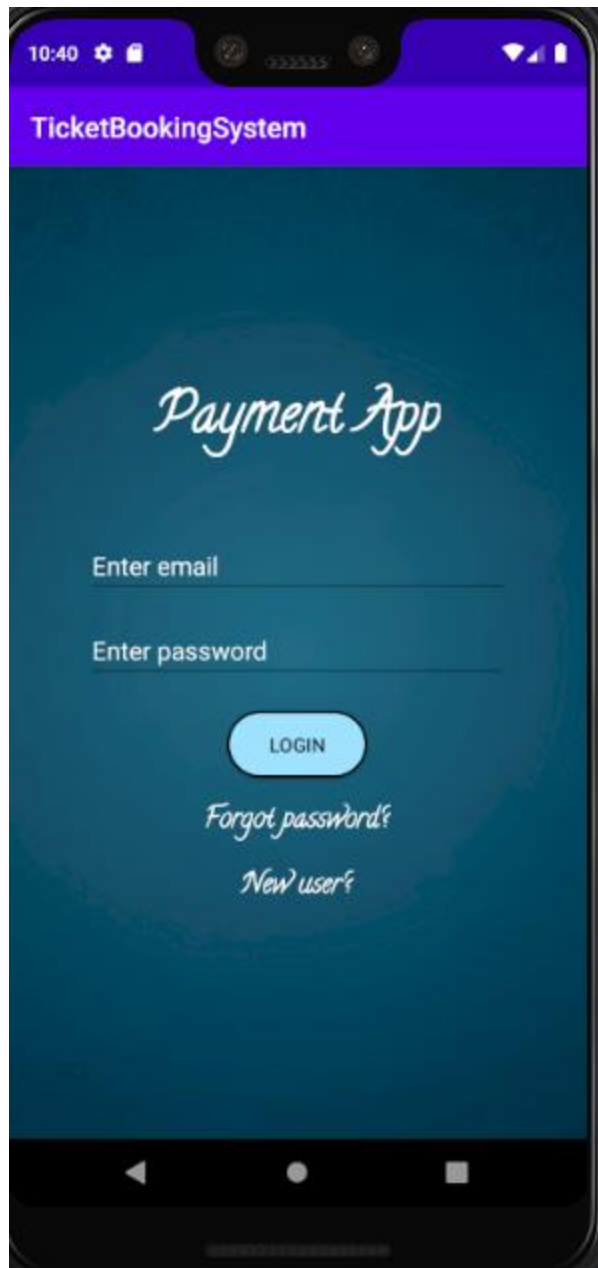


Fig. 1.1 Login Page



Fig. 1.2 Registration Page

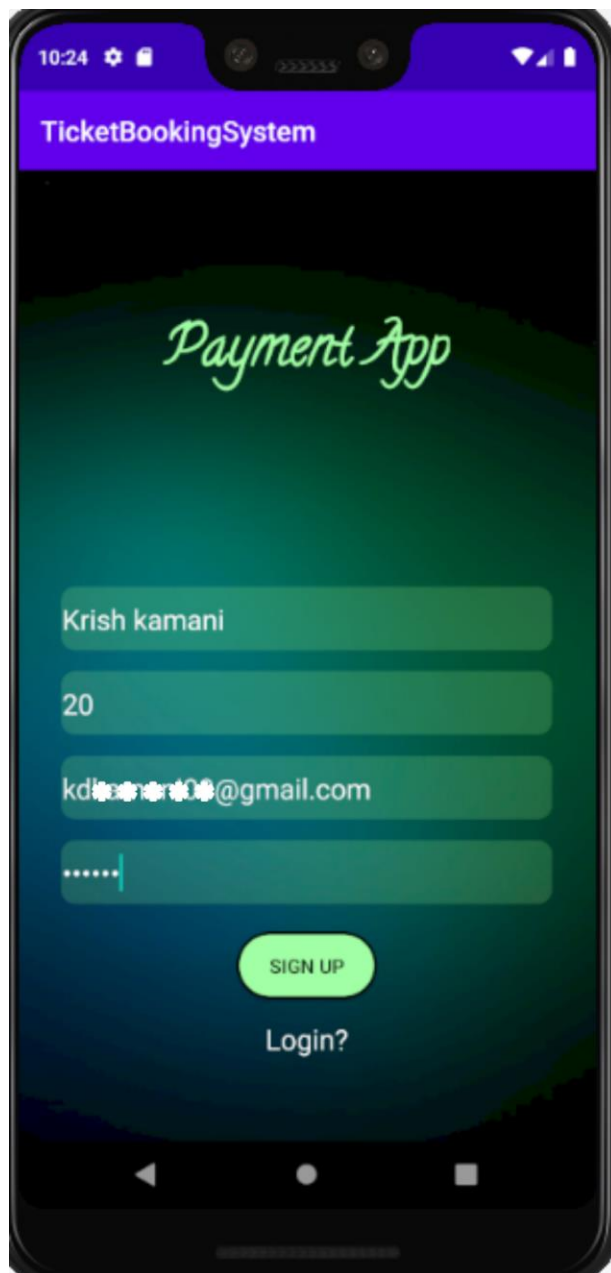


Fig. 1.3 Entering Necessary Details

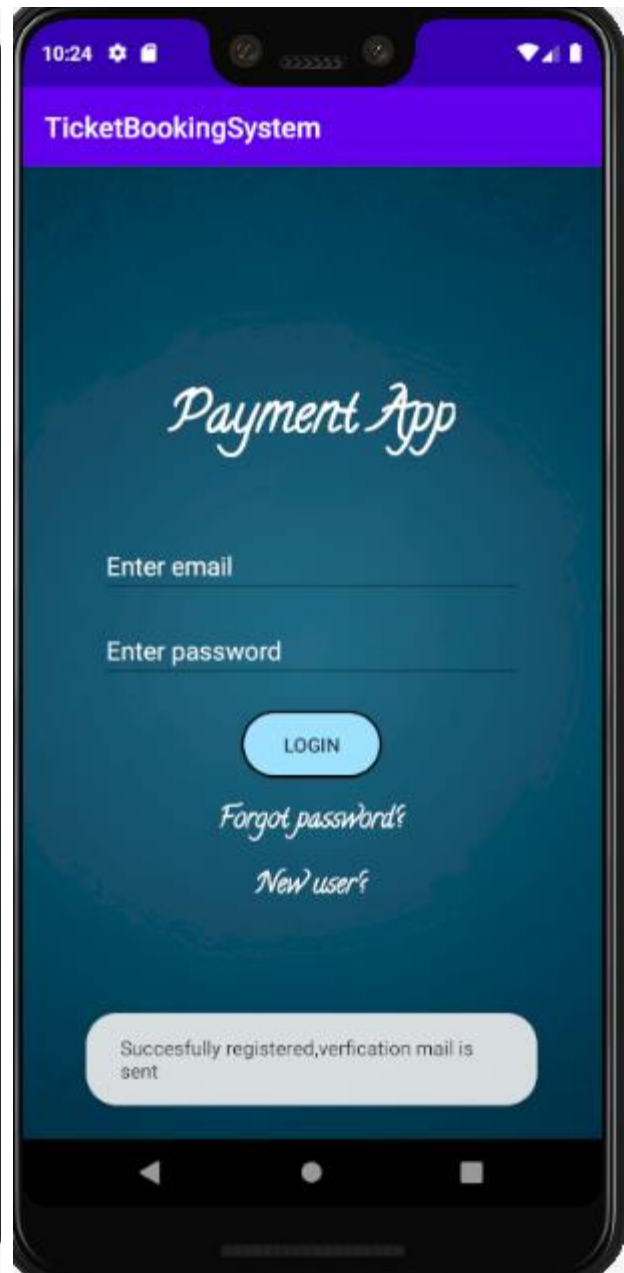


Fig. 1.4 Redirected to login activity, with a toast message

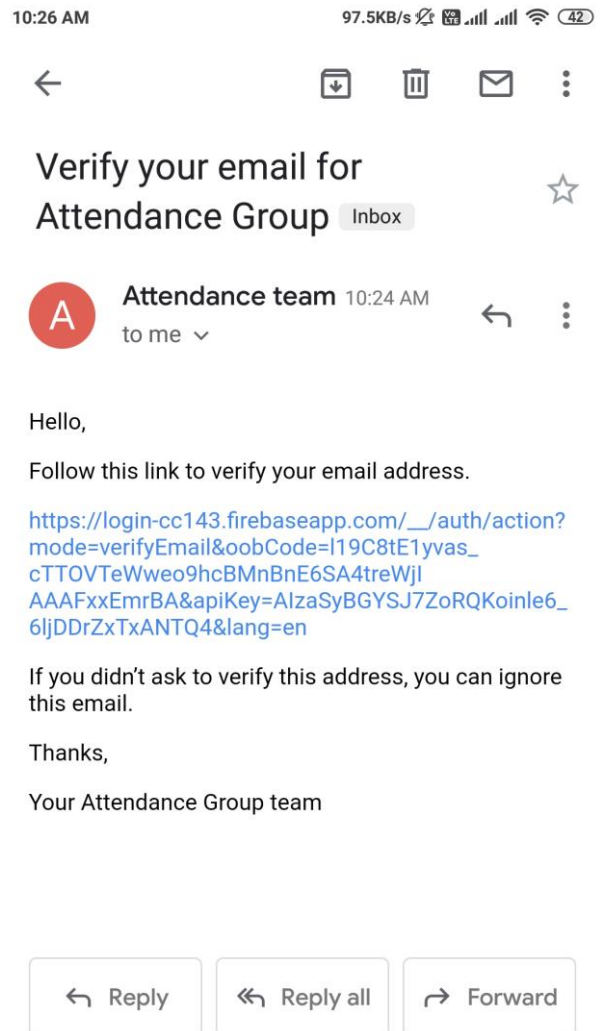
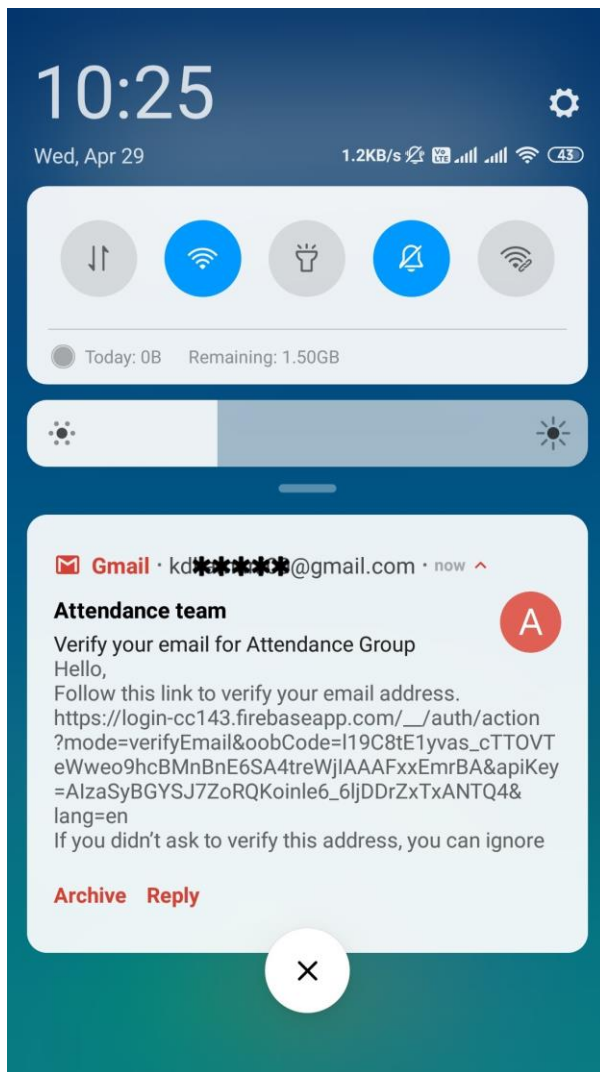


Fig. 1.5 User receiving email for verification

Test cases applied:

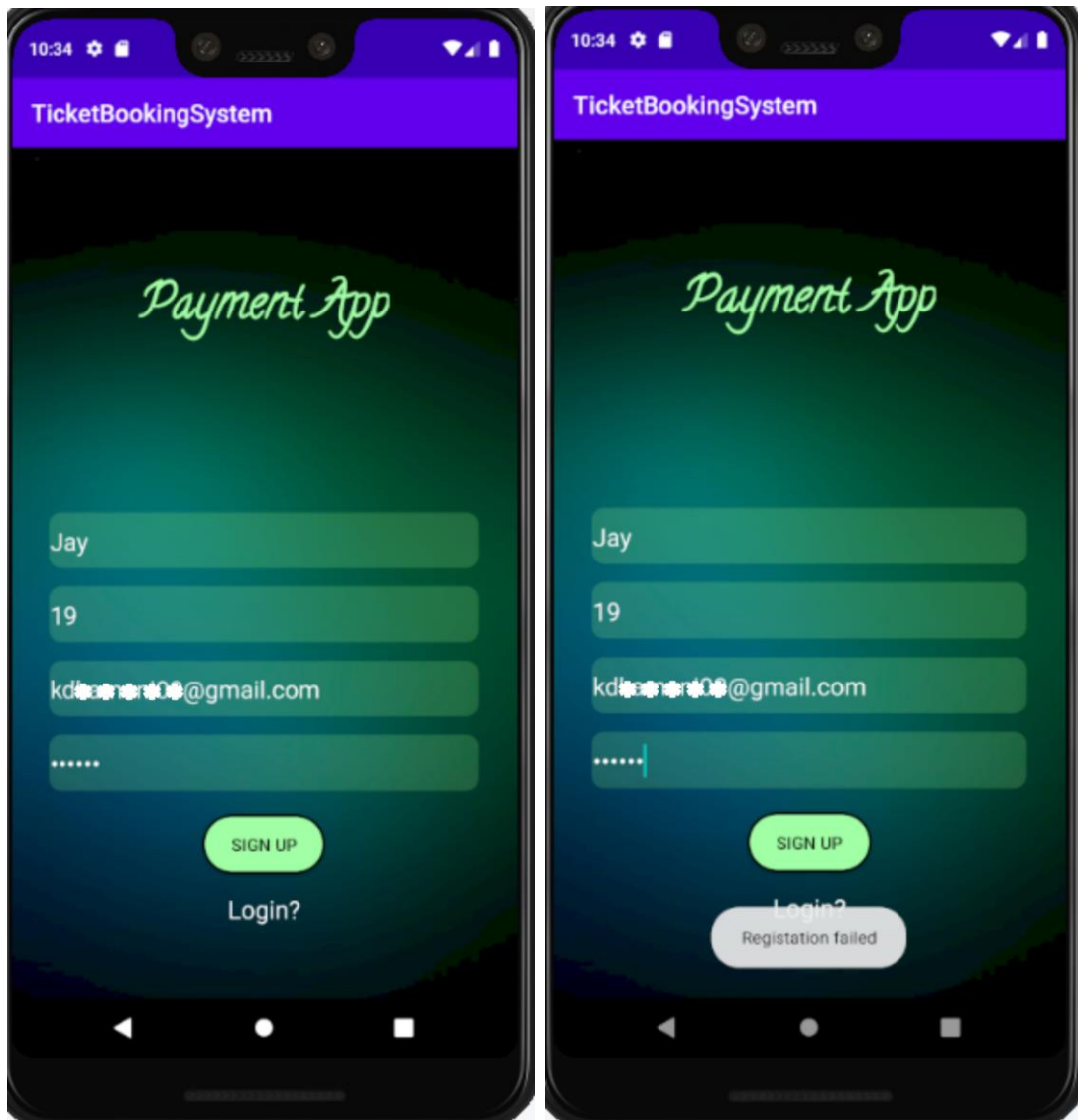


Fig. 1.7 A user entering already registered email and achieving failure

When an already registered email-id (i.e. saved in our database), is being entered by another user during registration, by clicking on sign-up, registration doesn't take place and toast message is displayed as "Registration failed".

2. Login Activity:

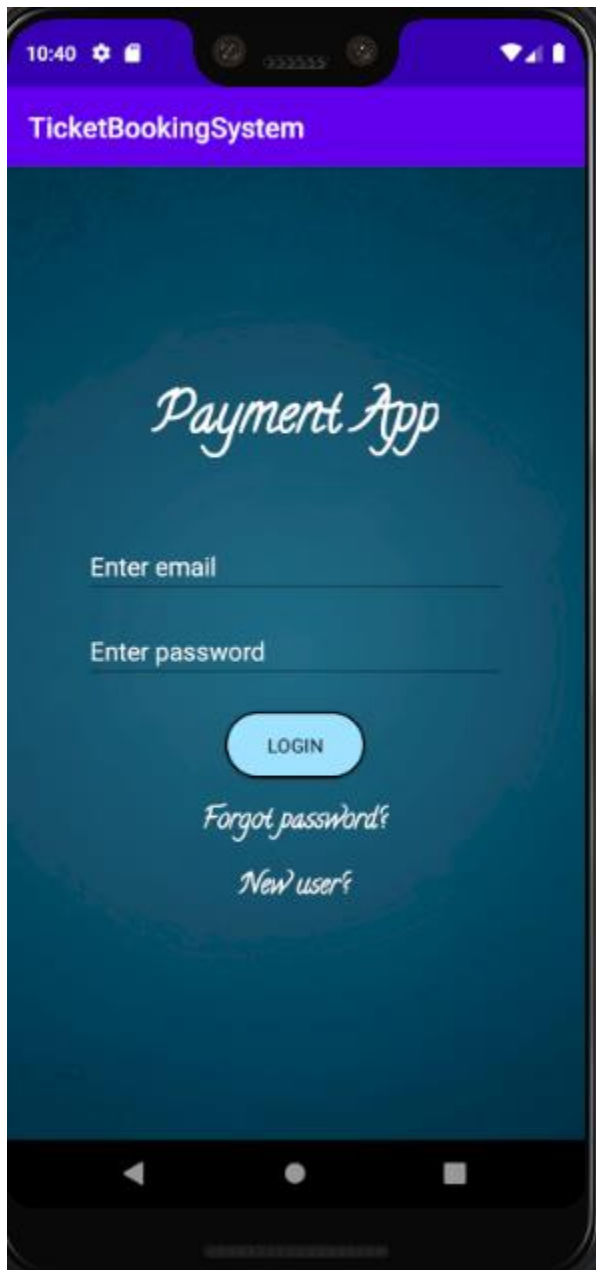


Fig. 2.1 Login Page

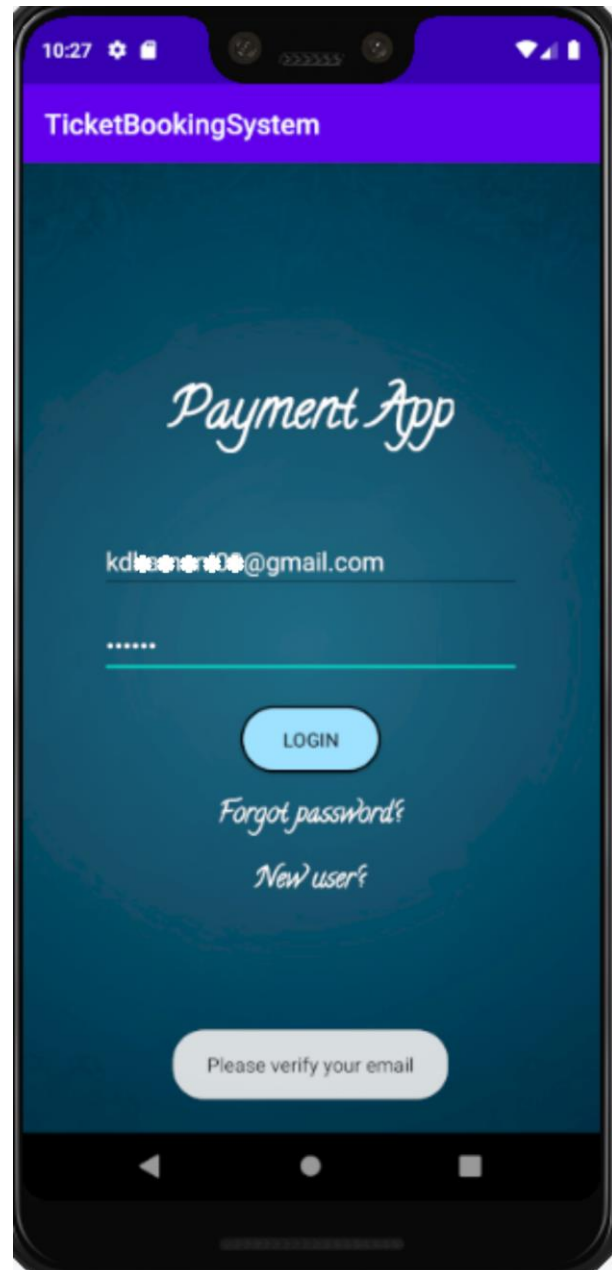


Fig. 2.2 Logging in with unverified email

When user gets registered himself/herself, he/she is then redirected to login page. Here, only after clicking on the verification link sent on the registered email id, the login process is successful, otherwise a toast message is displayed as 'Please

verify your email'. If he/she is verified, then after logging in, he/she will be redirected to the welcome activity, which will be discussed later.

Test Cases Applied:



Fig. 2.3 Email-id not valid

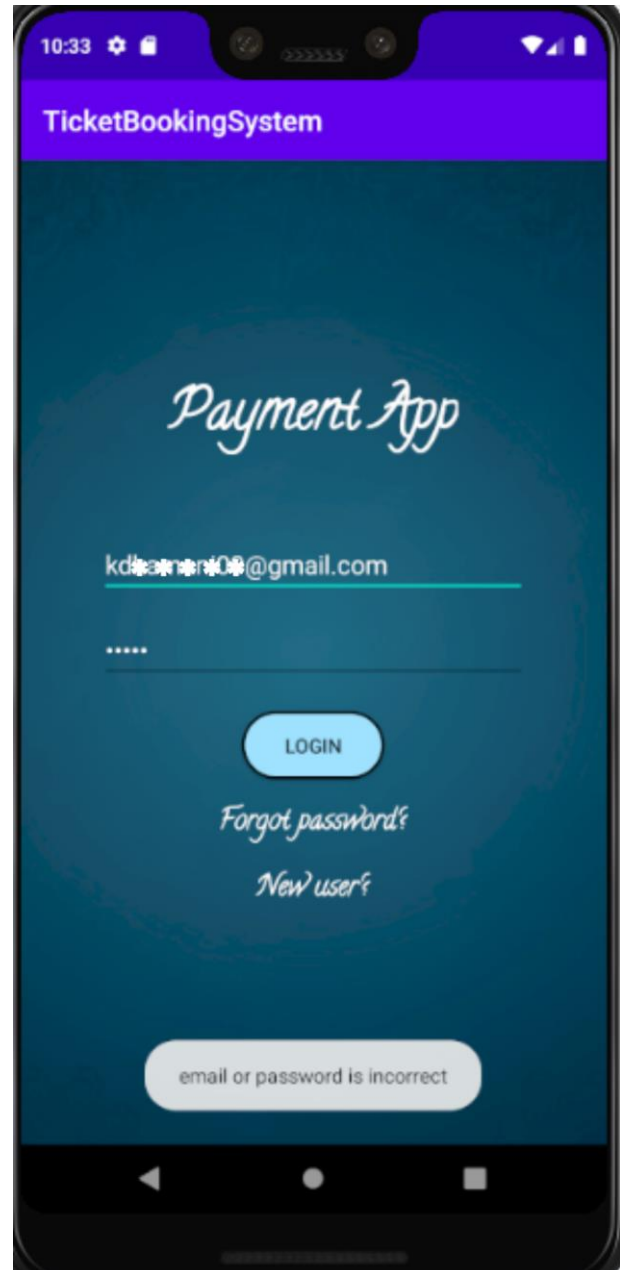


Fig. 2.4 Password incorrect

3. Forgot Password Activity:

If a user forgets his/her password for logging in to our system, he/she can click the link named 'Forgot Password?' below login button (Fig. 1.1) for resetting password of his/her account. After getting redirected to Forgot password page (Fig. 3.1), by typing a valid email-id, user will receive the reset password link, and can enter a new password by clicking on that link sent.



Fig. 3.1 Forgot Password Page

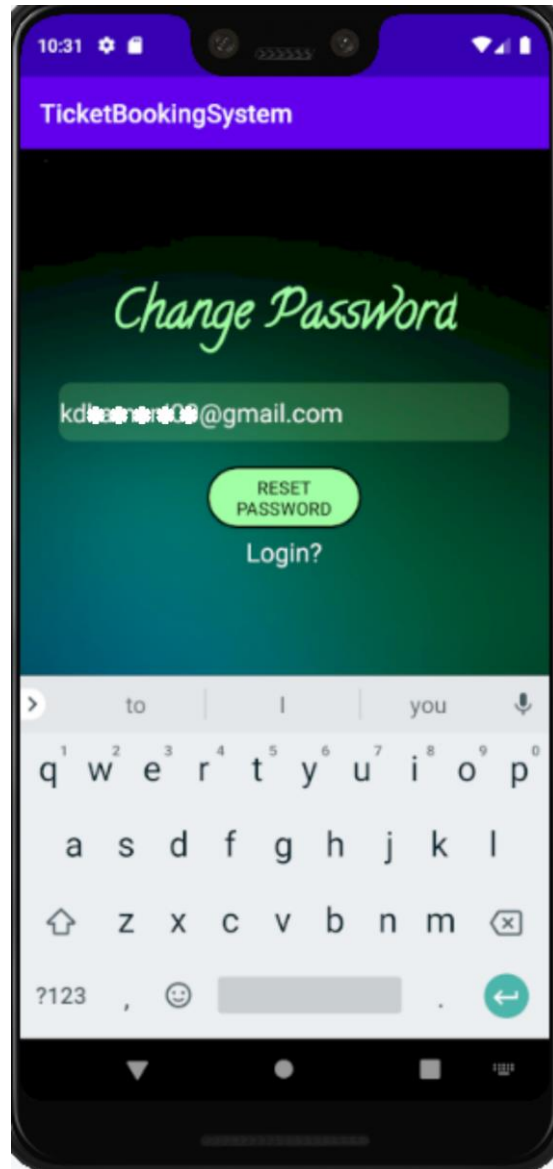


Fig. 3.2 User entering valid email-id for receiving reset password link

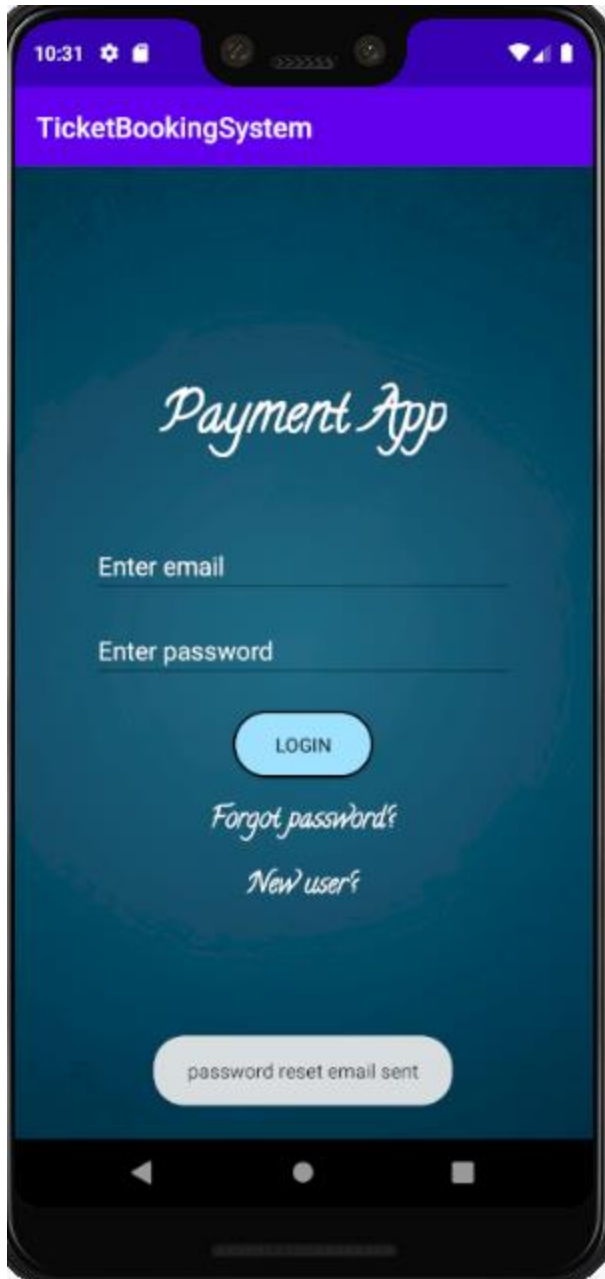


Fig. 3.3 User Redirected to Login Activity

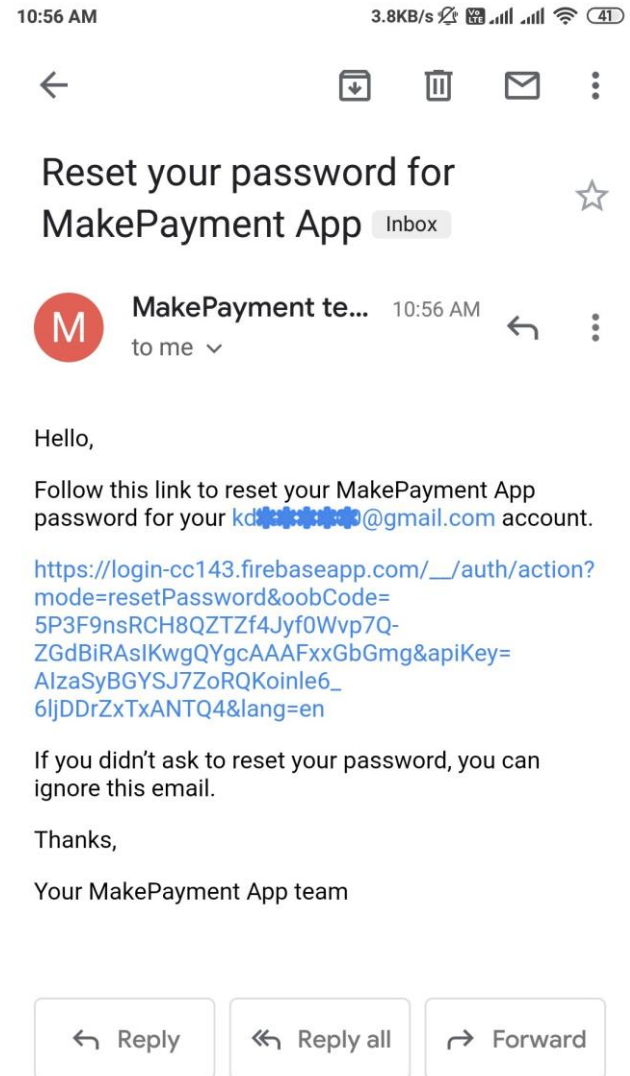


Fig. 3.4 User Receiving Email for reset password

Reset your password

for kd*****@gmail.com

New password



SAVE

Fig. 3.5 After clicking on link, this page opens.

Password changed

You can now sign in with your new password

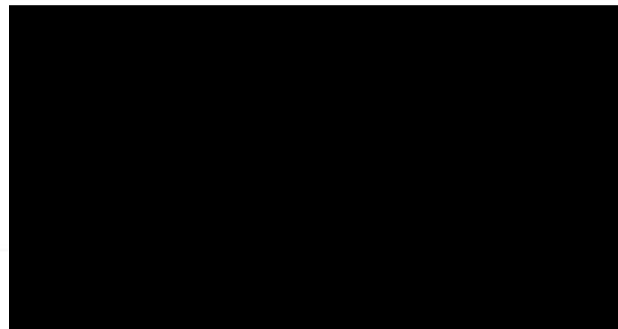


Fig. 3.6 After entering new password, user gets this message.

Test cases applied:



Fig. 3.7 User entering invalid email id

If user enters an invalid email id for getting reset password link, the following toast message gets displayed as 'Error in sending password reset link'.

4. Welcome Activity:

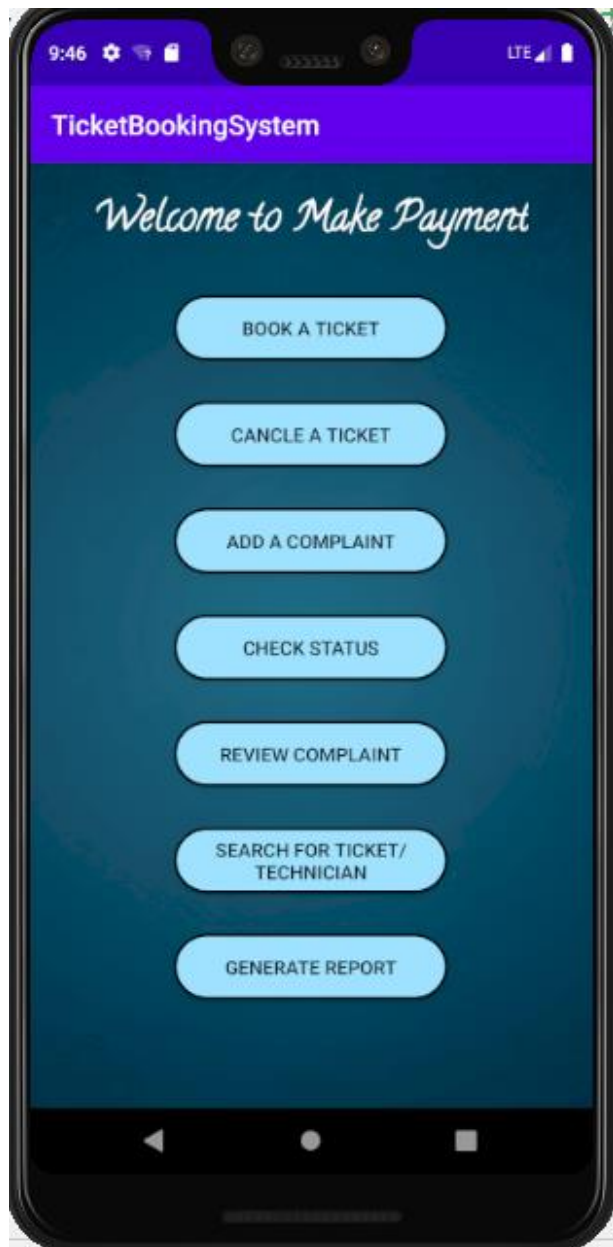


Fig. 4.1 Welcome Activity

After clicking on Login button in Login page (Fig. 1.1), if user is successfully verified and registered in our database, he/she will be redirected to the welcome activity. Now, here on clicking button named 'Book a ticket', user will be redirected to ticket booking page, which is discussed next.

5. Ticket Booking Activity:

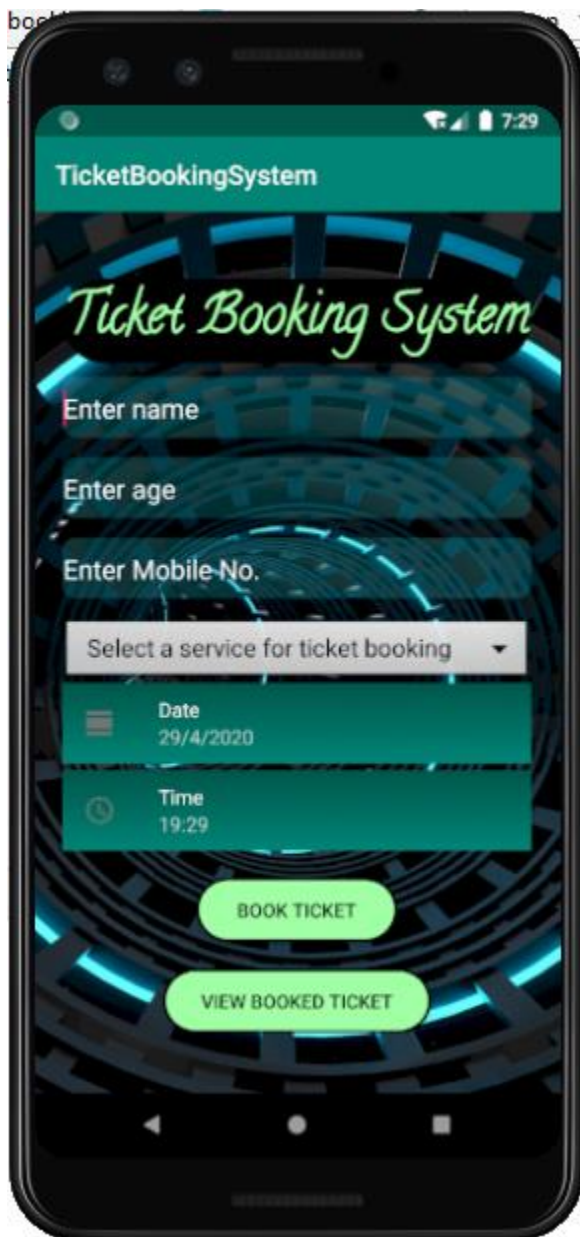


Fig. 5.1 Ticket Booking Activity



Fig. 5.2 User selecting ticket type

After user selects 'Book a ticket' button in welcome activity (Fig. 4.1), user is redirected to the ticket booking activity (Fig. 5.1). Here a user can book tickets for either of these: Flight, Train & Bus. He/she has to enter details like name, age & mobile number,

and then select ticket type from the dropdown menu indicating 'Select a service for ticket booking' (Fig. 5.2).



Fig. 5.3 Other 3 dropdown menus appear



Fig. 5.4 Dropdown to select bus type

After user selects any item from dropdown in Fig. 5.2, for example bus, 3 more dropdown menus will appear, for bus type (indication 'Select Bus Type'), place of departure (indication 'From which place') & place of arrival (indication 'To which place') respectively.

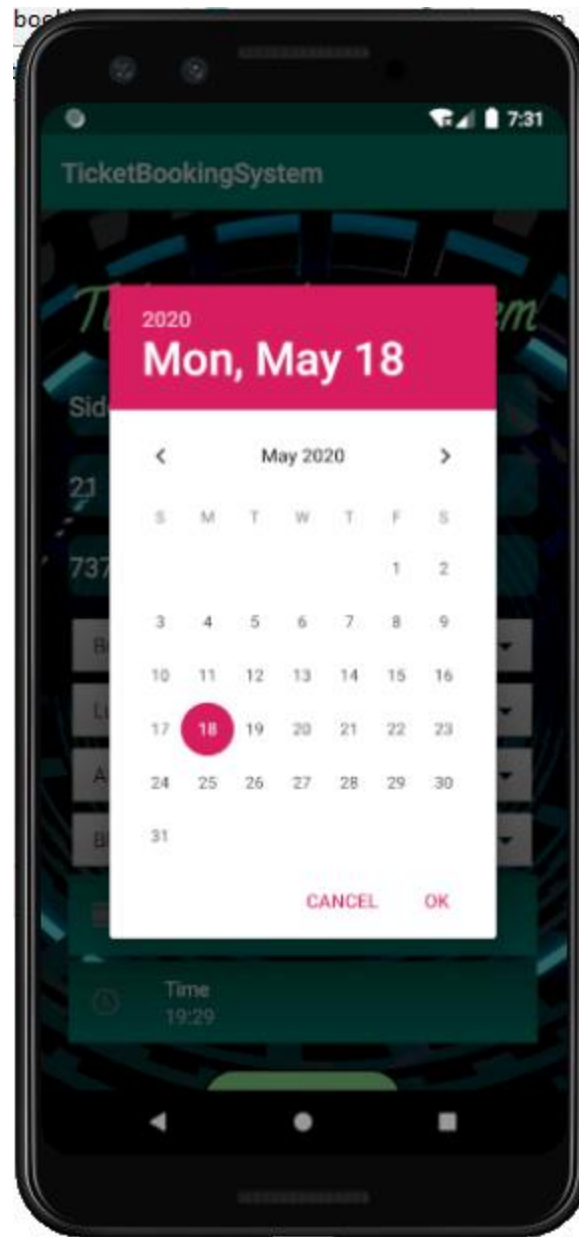
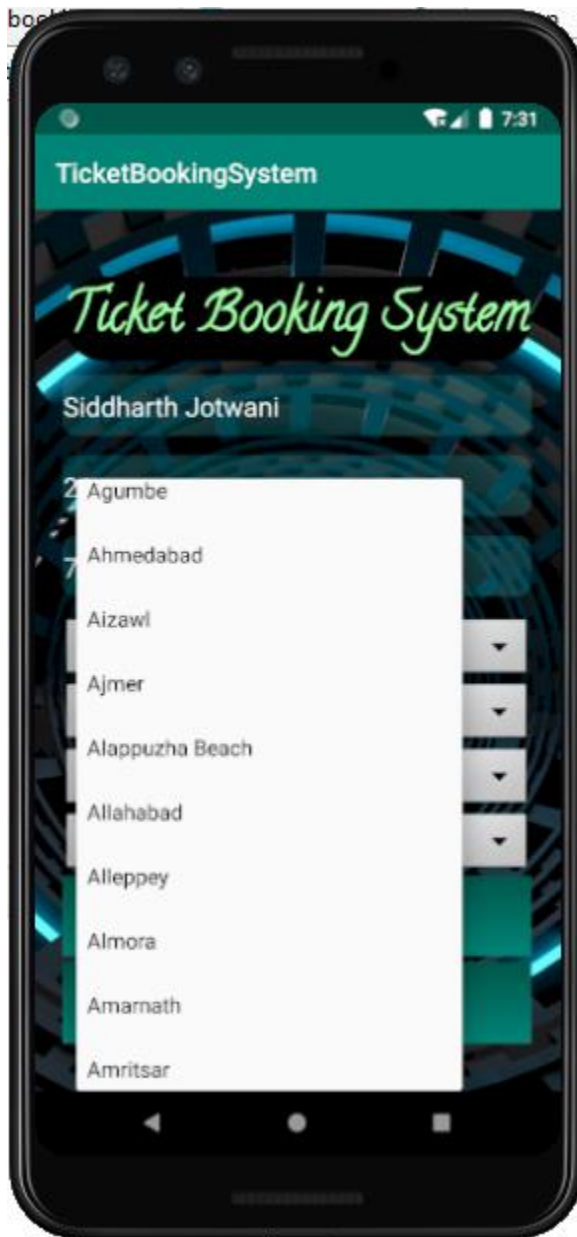


Fig. 5.5 Dropdown: City Selection (Arrive/Depart) Fig. 5.6 Date-Picker appears on Date Text-view click

And after selecting all inputs from dropdown lists, user has to select date and time for which the ticket has to be booked. On selecting date text-view, date-picker will appear (Fig. 5.6), and on selecting time text-view, time-picker will appear (Fig. 5.7).

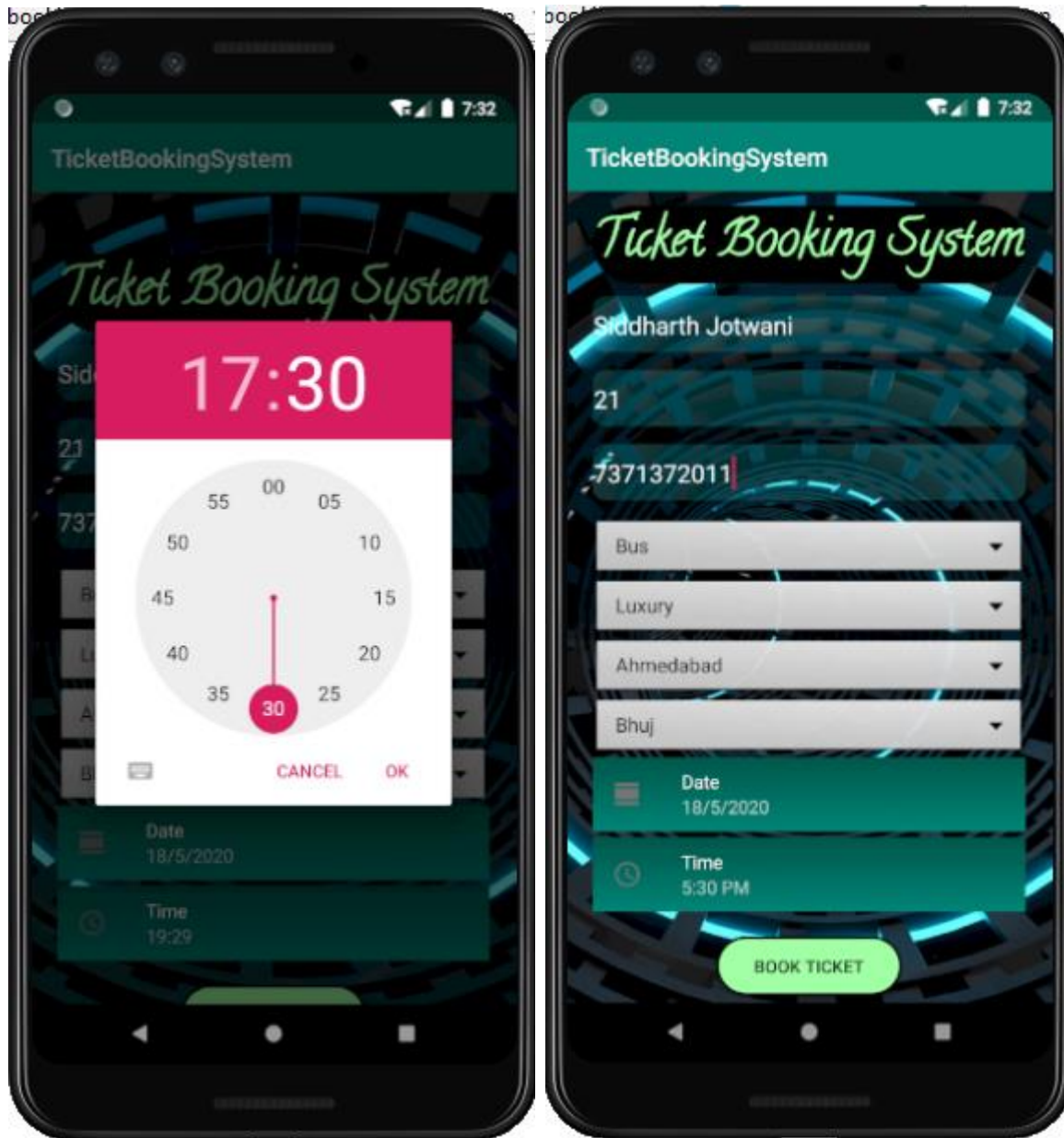


Fig. 5.7 Time-Picker comes on time text-view click

Fig. 5.8 All details entered by the user

After selecting everything, user has to click on button named 'Book Ticket', which will insert all the details of the ticket in our database, and at the same time, a notification will pop-up on user's screen indicating 'Your ticket has been booked, proceed with the payment details later...', and along-with this, a toast message will also appear, indicating 'Ticket Booked Successfully'. Also, the page will be refreshed with the default state of activity.

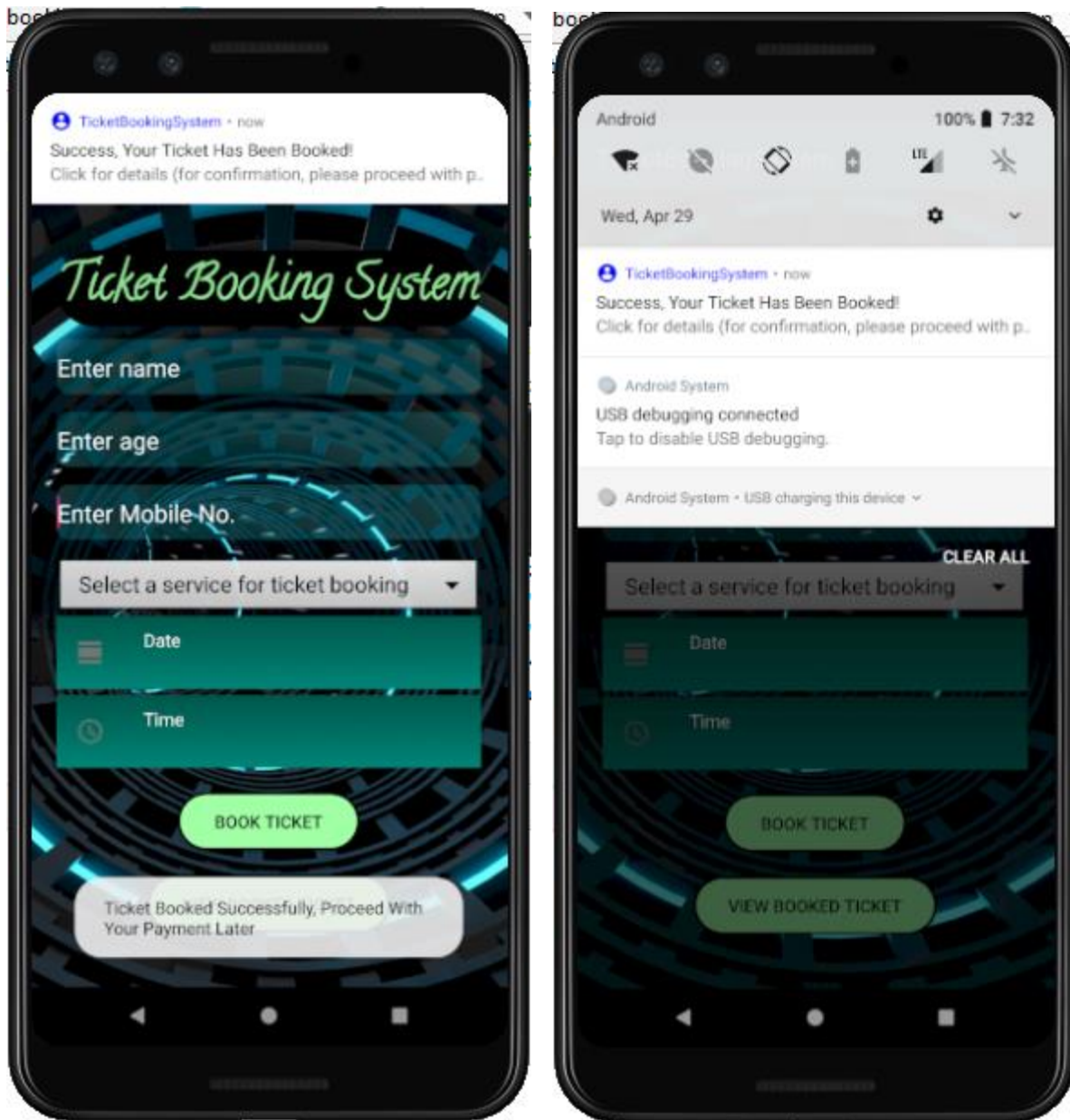


Fig. 5.9 On clicking Book Ticket, Notification and Toast message pop-up

On clicking on the notification popped-up (Fig. 5.9), user will be redirected to another activity (Fig. 5.10) showing all the details booked by that particular ticket being booked by him/her.



Fig. 5.10 Details of the ticket booked



Fig. 5.11 List of Booked Tickets

Now, if a user clicks on button named 'View Booked Tickets' (in Fig. 5.1), then the list of booked tickets appears as shown in Figure 5.11. On clicking on anyone item of the list, a dialogue box will appear (Fig. 5.12), asking for actions to be taken: delete, view details, or cancel (do nothing). If user clicks on Show details, details will be displayed of that particular ticket as in Fig. 5.10. On

clicking Delete, the record will be deleted, and page will be refreshed with remaining records (Fig. 5.13).

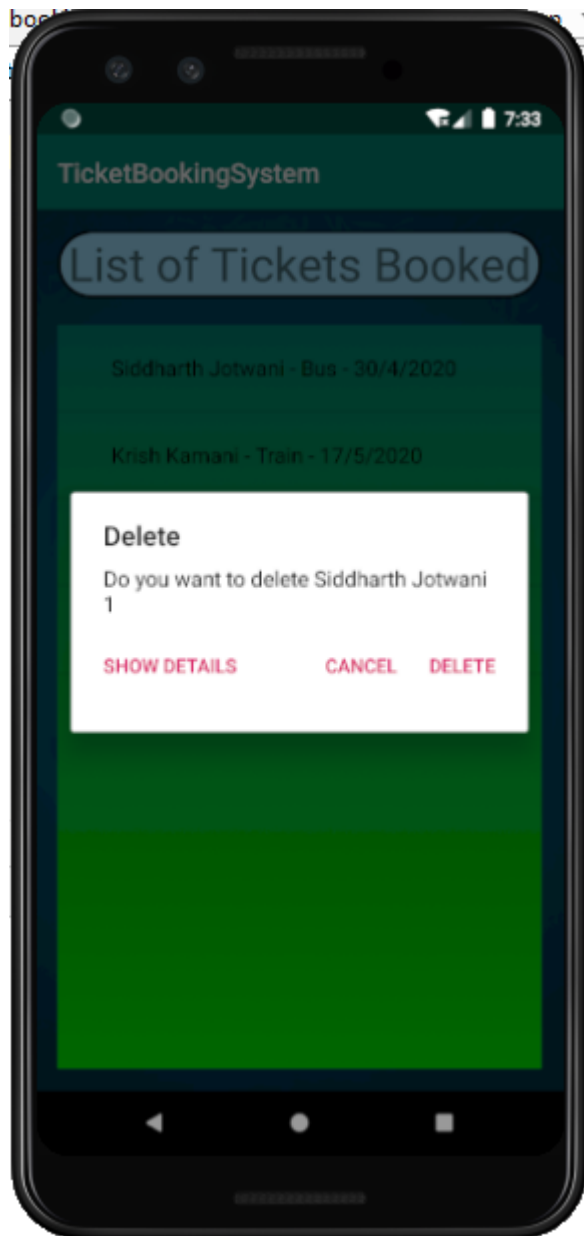


Fig. 5.12 Dialog box appears on clicking on anyone record

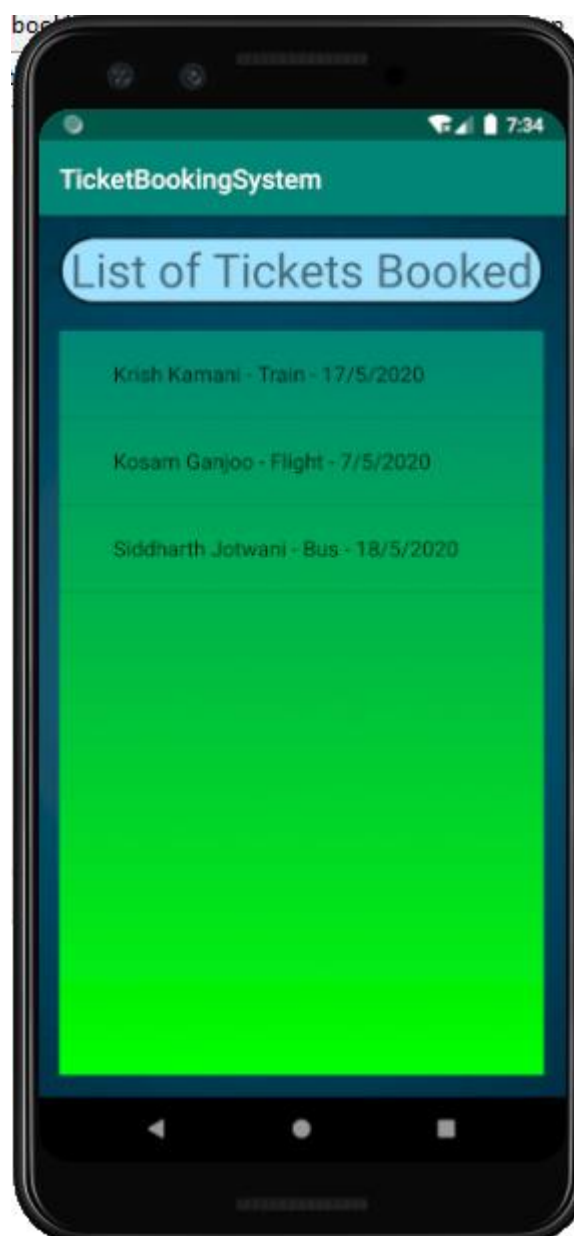


Fig. 5.13 Page refreshed after deletion of that record

Test cases applied:

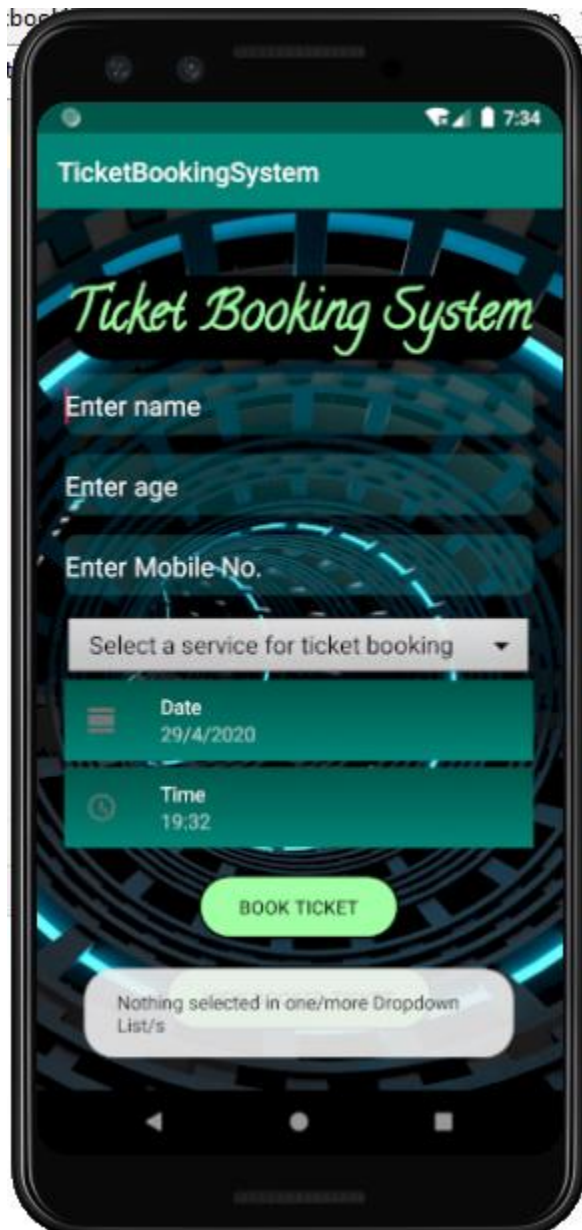


Fig. 5.14 If nothing selected in dropdown menu, following toast message will be displayed

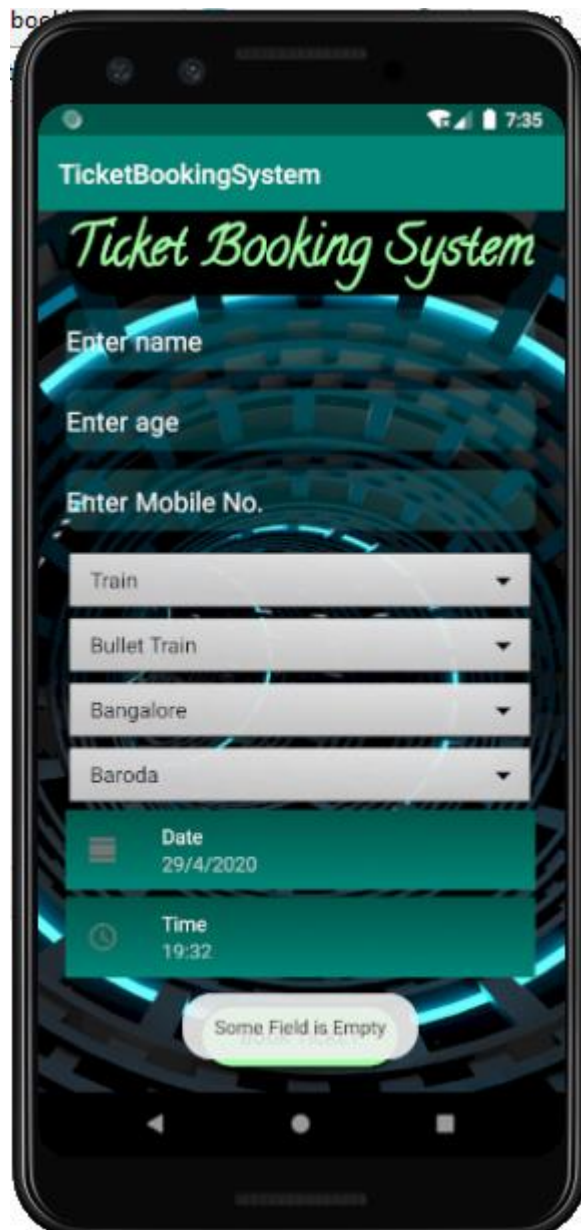


Fig. 5.15 If dropdown menus are filled, but if one/more text fields are empty, then following toast message will be displayed



Fig. 5.16 If Train selected in 1st dropdown menu, then next dropdown menu will display following options



Fig. 5.17 If Flight selected in 1st dropdown menu, then next dropdown menu will display following options

Conclusion:



Hence, we developed 5 following modules: Registration, Login, Forgot Password, Welcome Activity, and Ticket Booking System. Also, we discussed in detail working of each one of them, along with some test cases applied.