**5.Testing**

**5.1 Unit Testing**

**Android component**

**Login and Signup:**

1. **Login :**

For successful login -

Username/Email-ID: shreyas@gmail.com

Password: 123456

Result: Logged in. Redirected to dashboard of the app.

For unsuccessful login -

Username/Email-ID: abc def@gmail.com

Password: abcd12

Result: Login failed due to incorrect username or password.Shows a hint message that says, Enter a valid email address

**Sign Up -**

For successful sign-up -

Name: shreyas

Username: shreyas@gmail.com

Password: 12345

Result: Successful sign-up. Shows a page that says, “Authenticating” and then takes to dashboard of the app.

For unsuccessful sign-up -

Name: testing

Username: testing

Password: password

Result: Sign-up failed. Shows a hint message that says, “enter a valid email address”.

Name: ab

Username: ab@gmail.com

Password: password

Result: Sign-up failed. Shows a hint message that says, “at least 3 characters”.

Name : abcde

Username/Email-ID: abced@gmail.com

Password: sun

Result: Signup failed. Shows a hint message that says, between 4-10 alphanumeric characters.

**Planning A Trip :**

1. **Plan a new Trip**

i ) Enter place name -> click on correct place from autocomplete options -> add to list of places to visit -> there is an option to remove selected places also -> option to either ‘Get Route’ or ‘View Suggestions’

Selecting places to travel to :

-- if no place is entered

: a dialog box prompting user to enter destination appears when user click on either ‘Get Route’ or ‘View Suggestions ’

-- if user tries to enter same place twice

: a dialog box appears alerting the user that the selected place has already been added

Selection of Suggested Places :

> User may select any number of suggested places

-- if user selects any places they will be added to his list of places to visit

-- if user does not select any place then the list of places to visit is left unmodified

1. **Retrieve Saved Trip**

> If no saved trips :

-- a dialog box appears alerting the user that he/she had not saved any trips earlier

> If there are saved trips :

-- a window appears displaying to the user all the trips that he had saved

-- the user could select any one of the trips with the help of a radio button and the corresponding route is displayed

**ChatBot :**

**For Successful querying :**

Q1 ) Hey ! What type of place are you looking for ?

Input : Restaraunt

Output : valid input. Moves on to the next question

Q2) How far are you willing to Travel (in Kms)?

Input : 5 - 7

Output :valid input. Moves on to the next question

Q3) How much time can you spare(in Minutes) ?

Input : 35

Output :valid input. Loads map showing

**For Unsuccessful querying :**

Q1 ) Hey ! What type of place are you looking for ?

Input : Nandi hills

Output : Please enter the required

Q2) How far are you willing to Travel (in Kms)?

Input : 0

Output : Please enter non-zero value

Q2(a) How far are you willing to Travel (in Kms)?

Input : - 5

Output :

Q3) How much time can you spare(in Minutes) ?

Input : -25 Output :

**Web component**

**Login -**

Note: The results for the below are achieved after clicking on the “Sign In” or “Sign Up” (whichever is appropriate for the respective pages login or sign-up) buttons provided below the input fields.

**For successful login -**

Username/Email-ID: [abcd@gmail.com](mailto:abcd@gmail.com)

Password: abcabc

Result: Logged in. Redirected to abc.html

**For unsuccessful login -**

Username/Email-ID: [fail\_login@gmail.com](mailto:fail_login@gmail.com)

Password: this\_will\_fail

Result: Unsuccessful login. Shows a prompt that says, “Wrong Details ! !”.

The input fields are cleared.

Username/Email-ID: [lisa@gmiaal.com](mailto:lisa@gmiaal.com)

Password: sunflower

Result: Unsuccessful login. Shows a prompt that says, “Wrong Details ! !”.

The input fields are cleared

**Sign Up -**

**For successful sign-up -**

Name: admin

Username: admin

Email-ID: admin@admin.com

Password: password

Result: Successful sign-up. Shows a prompt that says, “Successfully registered. Please sign in here.”. (Note: “Sign in” is a hyperlink to the login page)

The input fields are cleared.

**For unsuccessful sign-up -**

Name: testing

Username: testing

Email-ID: emailid

Password: password

Result: Unsuccessful sign-up. Shows a prompt that says, “Please enter a valid email address.”.

Name: testing

Username: // is left blank

Email-ID: [email@gmail.com](mailto:email@gmail.com)

Password: password

Result: Unsuccessful sign-up. Shows a prompt that says, “Please provide a username.”.

Name: testing

Username: testing

Email-ID: [email@gmail.com](mailto:email@gmail.com)

Password: abc

Result: Unsuccessful sign-up. Shows a prompt that says, “Please enter a password which is at least 6 characters long.”.

Name: name123

Username: username123

Email-ID: [lisa@gmail.com](mailto:lisa@gmail.com)

Password: password

Result: Unsuccessful sign-up. Shows a prompt that says, “Sorry. The email-id ‘[lisa@gmail.com](mailto:lisa@gmail.com)’ is already taken.”.

**Maps:-**

For Incorrect Addresses

Enter a location: //is left blank

Add Address

Enter a location: //is left blank

Add Address

Result:A popup window appears that says directions service failed. Like one of the addresses is incorrect

Enter a location: //is left blank

Add Address

Enter a location:Hampi, Karnataka, India

Add Address

Result:A popup window appears that says directions service failed. Like one of the addresses is incorrect

Enter a location:hoompi //Invalid Address

Add Address

Enter a location:Hubli, Karnataka, India

Add Address

Result:A popup window appears that says directions service failed. Like one of the addresses is incorrect.

For Correct Addresses:-

Enter a location:Hampi, Karnataka, India

Add Address

Enter a location:Hubli, Karnataka, India

Add Address

Result:

For already taken trip name:-

Give your trip a name:trip1 //already taken by other user

Result: In place of check availability TripName Already exist please choose Other Trip Name appears

For available trip name:-

Give your trip a name:hello

Result: In place of check availability Available appears.

**5.2 Integration Testing**

**Web Component**

The home page is loaded.

<http://travelapp.freevar.com/complete/index.html>.

“GET MY WAY” is clicked.

We are redirected to Login Page.

<http://travelapp.freevar.com/complete/index.php>

Unsuccessful Login -

Username/Email-ID: [fail\_login@gmail.com](mailto:fail_login@gmail.com)

Password: this\_will\_fail

A prompt that says, “Wrong Details ! !”, is shown.

Valid login details need to be entered.

**OR**

The “Sign Up” hyperlink needs to be clicked to create a new user.

We are redirected to the sign-up page.

<http://travelapp.freevar.com/complete/sign-up.php>

User details are entered.

Unsuccessful sign-up -

Could be one of various faults -

1. Empty name field
2. Empty password field
3. Empty username field
4. Empty email-ID field
5. Username already taken
6. Email-ID already taken

A prompt with appropriate messages is shown and we are asked to fix the errors, if any.

Successful sign-up -

Name: admin

Username: admin

Email-ID: admin@admin.com

Password: password

A prompt is shown that says, “successfully registered login here”.

Clicking on the “login” hyperlink of the same prompt will redirect us to the login page.

Successful Login -

Username/Email-ID: admin

Password: password

User is sent to the plan a trip page after a successful login.

<http://travelapp.freevar.com/complete/abc.html>

User enters his places to visit one by one

If entered addresses are valid when clicked on optimize directions google maps with optimized route appears

Else if entered addresses are invalid popup appears saying directions service failed. Like one of the addresses is incorrect.

User gives his trip a unique name if name is not unique then TripName Already exist please choose Other Trip Name appears

User saves his trip by clicking on Save trip

**5.3 System Testing**

On the webpage -

User loads the home page.

<http://travelapp.freevar.com/complete/index.html>

He/She clicks on “GET MY WAY”.

The user is redirected to the login page.

<http://travelapp.freevar.com/complete/index.php>

The user logs in if he/she has valid login credentials.

Else he/she has to sign-up by clicking on “Sign Up” hyperlink - which would send the user to the sign-up page.

<http://travelapp.freevar.com/complete/sign-up.php>

The user registers after filling in fields for name, username, email and password. If any errors were found in the details while registering, the user is asked to fix the errors and re-submit the form.

The user successfully registers and logs in with his/her login details.

The user is sent to the plan a trip page where he/she can enter his/her required destination(s) to travel.

<http://travelapp.freevar.com/complete/abc.html>

If entered destinations are valid user can optimize directions and by giving a unique trip name user saves his trip