

ENG1003  
Assignment 2

# Test Plan



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Trip Planning

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# 1.0 Project Background

The app is on behalf of Monash for their exchange students who want to travel internationally on exchange programs to partner universities once the COVID pandemic is over. It is intended to help the economy recover by providing students with a user friendly helpful tool to help them plan international trips.

The app is needed to help students plan trips around the city they are based in and their destination city. Students are able to plan connecting routes in their trip if they want, and view a summary of their trip before scheduling it. The students are also able to cancel and view upcoming trips, and if they choose to create an account, able to view previous trips. A user can choose to not have an account and still create a trip, where they will be considered a guest user although the trip cannot be saved for later viewing.

Students are also able to view all possible routes within a chosen country before planning their trip to gain an understanding of the possibilities open to them. The app is designed to allow a user to plan a trip within the country using domestic routes with ease.

## 2.0 Test Plan

### 2.1 Document Purpose

This document outlines the testing procedure and test cases of the ENG1003 Assignment 2 Project.

## 3.0 Login Page and Account Creation Page

The login page allows the user to login into the application while providing the user various options which include to continue as a guest and create an account if the user does not have an account.

### **Acceptance Criteria:**

1. Once the user prefers to login into the app and when they click the login button on the side panel, they will be directed to the login page.
  - a. There must be 2 text input boxes for the email id, password.
  - b. Once a user clicks the login button, they will be directed to the homepage.
  - c. The local storage needs to get updated on the status of the account.
2. Once the user prefers to create an account to login into the app and when they click the login button on the side panel, they will be directed to the login page and when they click create account, they will be directed to the account creation page.
  - a. There must be 4 text input boxes for the name, email id, password and confirm password.
  - b. Upon clicking the create account button, they will be directed to the homepage.
  - c. The account that was created needs to get stored and updated into the local storage where the login button in the side panel needs to change to a logout button.

### 3.1 System/Integration Tests

Test Number	Reason	Input	Expected Output	Actual Output	Test Passed?
1	Ability to create an account	New class instance-Account	Account created popup shown	Popup shown	Test Passed
2	To check the matching of user email id and password.	Incorrect password is entered	Error popup with invalid email id and password message	Popup shown	Test Passed
3	To access the other pages of the app via the drawer links	Onclick-hamburger menu item	Relocation to relevant page link	Relocation to relevant page link	Test Passed

### 3.2 Unit Tests

Test Number	Reason	Input	Expected Output	Actual Output	Test Passed?
1	To ensure that the account creation page can be accessed	Onclick the account creation page	User directed to account creation page	User directed to account creation page	Test Passed
2	To ensure that the user account is logged in and logged out	Onclick the login button	Login button in the side panel changes to logout button when user logged into the application	Login button in the side panel changes to logout button when user logged into the application	Test Passed

## 4.0 Homepage and Plan Trip Page

The homepage allows the user to view all the routes on the map and plan a trip by using the 4 dropdown input sections on the page which requires the user to select the country, date and airport and route. Once the user clicks on the finish trip button in the trip summary popup, they will be directed to the scheduled trips page.

**Acceptance Criteria:**

1. In the homepage, the user should be able to click the markers and routes lines on the map to see the details of the trip.
  - a. The details must include the departure location, arrival location and flight number in the popup on the map.
  - b. When the user clicks on the markers and the route lines, they need to be shown a popup containing the trip details with an add route button to add multiple routes.
  - c. Once the user has chosen all the inputs and click on the summary button, they will be shown a popup containing the details of the trip with confirm trip button.
  - d. Once the user created and confirmed a trip, it needs to update the local storage.

## 4.1 System/Integration Tests

Test Number	Reason	Input	Expected Output	Actual Output	Test Passed?
1	Ability to create a trip	Onclick plan trip	Popup shown with trip details	Popup shown with trip details	Test Passed
2	To display the markers and popups	User chosen the trip details	Markers and popups on the map	Markers and popups on the map	Test Passed
3	To display the dropdown for the country, date, airports and routes	Onclick the dropdown in the page	Shows all the list of data in the dropdown	Shows all the list of data in the dropdown	Test Passed

## 4.2 Unit Tests

Test Number	Reason	Input	Expected Output	Actual Output	Test Passed?
1	To ensure the trip details data is stored in the local storage	Onclick the summary button	User directed to plan trip page and the trip details data is stored in the local storage	User directed to plan trip page and the trip details data is stored in the local storage	Test Passed

2	To ensure the application can access the API data	Onclick the dropdown sections in the homepage and plan trip page	Dropdown shows all the data of the countries, dates airports and routes	Dropdown shows all the data of the countries, dates airports and routes	Test Passed
3	Ability to access the plan trip page	Onclick the plan trip button	User directed to the plan trip page	User directed to the plan trip page	Test Passed

## 5.0 Scheduled Trips Page

The scheduled trips page allows the application user to view their future trips and access their details, as well as cancel the trips if they desire. The Scheduled Trips page contains a scrollable table list of trips with a header and drawer that allow access to the rest of the app.

### Acceptance Criteria:

1. Once the user logs in, there will be a small panel in the top left corner with the heading 'Upcoming/Scheduled Trips'.
  - a. Below that, the departure and arrival airport, and date, of any upcoming trips is shown.
  - b. Upon tapping the respective trip(s), the full details of that leg will be displayed (departure airport, trip number, arrival airport).

## 5.1 System/Integration Tests

Test Number	Reason	Input	Expected Output	Actual Output	Test Passed?
1	Creating a new Trip instance will add the trip to the Scheduled Trips	New class instance- Trip	Trip added to Scheduled Trips Page	Nothing	Test Failed
2	Once the current date has passed, a scheduled trip should be moved to Previous Trips page	Current date is past any trips in Scheduled Trip's date	Trip is removed from Scheduled Trips, added to Previous Trips	Error	Test Failed

3	To access the other pages of the app via the drawer links	Onclick-hamburger menu item	Relocation to relevant page link	Relocation to relevant page link	Test Passed
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## 5.2 Unit Tests

Test Number	Reason	Input	Expected Output	Actual Output	Test Passed?
1	To ensure that scheduled trip details can be seen	Onclick-table row element	Trip Summary popup appearance	Nothing	Test Failed
2	To ensure that the scheduled trip can be cancelled	Onclick-confirm cancel button	Return to scheduled trip, with trip removed from the table	Error	Test Failed
3	To ensure that the cancel popup is reached when the cancel button is clicked	Onclick-cancel button	Cancel popup appearance	Cancel popup appearance	Test Passed

## 6.0 Previous Trips Page

The previous trips page allows the application user to view their past trips and access their details. The previous trips page contains a scrollable table list of trips with a header and drawer that allow access to the rest of the app.

### Acceptance Criteria:

1. Once the user logs in, there will be a small panel in the top left corner with the heading 'Previous Trips'.
  - a. Below that, the departure and arrival airport, and date, of any upcoming trips is shown.
  - c. Upon tapping the respective trip(s), the full details of that leg will be displayed (departure airport, trip number, arrival airport).

## 6.1 System/Integration Tests

Test Number	Reason	Input	Expected Output	Actual Output	Test Passed?
1	Creating a new Trip instance will add the trip to the previous trips	New class instance- Trip	Trip added to Previous Trips Page	Nothing	Test Failed
2	Once the current date has passed, a scheduled trips should be moved to previous trips page	Current date is past any trips in Schedule Trip's date	Trip is removed from Scheduled Trips, added to Previous Trips	Error	Test Failed
3	To access the other pages of the app via the drawer links	Onclick-hamburger menu item	Relocation to relevant page link	Relocation to relevant page link	Test Passed

## 6.2 Unit Tests

Test Number	Reason	Input	Expected Output	Actual Output	Test Passed?
1	To ensure that previous trips details can be seen	Onclick-table row element	Trip Summary popup appearance	Nothing	Test Failed
2	To ensure that the previous trips can be cancelled	Onclick-confirm cancel button	Return to scheduled trip, with trip removed from the table	Error	Test Failed

## 7.0 Test Result Summary

Numerous tests have failed the implementation phase due to a lack of input of trip class instances. Work has been undertaken to rectify errors although retesting success has not been achieved. Currently all buttons and relocations are working, however the ability to move trips between pages is the largest task to still complete.