

ENG1003
SEMESTER 2 2020
ASSIGNMENT 2
TEST PLAN

Team 133

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Project Information

Project Background

Monash University requires for a web application to be designed that will allow users to plan domestic flights within a country of their choice. The application interface should be user friendly and have information readily available. Monash University requires for a web application to be created as students would like to be able to plan trips in order to visit the country they are in. Also, due to the current COVID-19 pandemic, international borders are mostly closed however, most governments have started to allow for domestic travel to take place again to help maintain the economy. Therefore, a web application that helps students plan domestic flights has been proposed.

Document Purpose

The web application development process follows a waterfall-agile methodology hybrid that can be split into six phases: the requirements phase, design phase, prototyping phase, implementation phase, verification phase, and handover (i.e. presentation of web application to client). This document is a part of the verification phase which details the test plan for the view all routes page of the web application. It shows the method of software testing that is used and the results of the tests. This allows us to identify and correct any errors or bugs in the selected feature for the test.

Specification of Feature

Description of Feature

The view all routes page allows users whether they are logged in or not to view all possible domestic flight routes within a selected country of choice. The user selects the country from a datalist and after an onchange event, a map of the country is displayed with all the flight routes shown. The routes are displayed using straight lines of different colours and the airports are marked using markers.

Acceptance Criteria

- Ensure that all domestic flight routes within the country is displayed on map
- All available airports in chosen country is marked with a marker
- Have a drop down list to show which country is available.
- Check if the country inputted by the user is valid.
 - If valid, display a map of the country with all domestic flight routes.
 - Else, display an error message.

Unit Testing

Test Number	Reason for Test	Input	Expected Output	Actual Output	Test Passed?
1	To ensure that user enters a country that exists	Malaysia	Please input a valid country!	Please input a valid country!	Test Passed
2	To ensure that the map shows all available routes based on the country they input	Malaysia	All available airplane routes within the country	All available airplane routes within the country	Test Passed
3	To check if there is a datalist when entering the country input	Mala	Datalist with country names consisting of "Mala"	Guatemala, Malawi, Malaysia	Test Passed
4	To check if user can zoom in the map	Gesture: Pinch Outwards	The map is zoomed in	The map is zoomed in	Test Passed
5	To check if user can zoom out the map	Gesture: Pinch Inwards	The map is zoomed out	The map is zoomed out	Test Passed
6	To check if user can move to the right of the map	Gesture: Swipe to the left	Map is moved to the right	Map is moved to the right	Test Passed
7	To check if user can move to the left of the map	Gesture: Swipe to the right	Map is moved to the left	Map is moved to the left	Test Passed
8	To check if user can move to the top of the map	Gesture: Swipe to the bottom	Map is moved to the top	Map is moved to the top	Test Passed
9	To check if user can move to the bottom of the map	Gesture: Swipe to the top	Map is moved to the bottom	Map is moved to the bottom	Test Passed
10	To ensure all airport names and location in selected country are shown with a popup and marker	Australia	All airport names and location of airports shown in pop up	All airport names and location of airports shown in pop up	Test Passed
11	To notify user that the country selected has no	Singapore	Alert message of	Alert message of	Test Passed

	domestic flights		"This country has no available flight route data. Please try another country."	"This country has no available flight route data. Please try another country."	
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Test Result Summary

Overall, the View All Routes page passes all of the unit tests that have been performed. The feature works as intended and no unwanted side effects occur. Therefore, the View All Routes page meets the acceptance criteria and is therefore finalised.