# DrivePie, Tourism New Zealand

Foundation Coding Documentation Write Up











# **Proposal**

#### Overview

Tourism New Zealand and the production company that brought the remake of 'Goodbye Pork Pie' are collaborating to promote New Zealand's tourism industry as well as the movie remake. They have a new campaign that promotes road tripping across New Zealand.

#### **Desired Product**

The desired product that would aid the campaign is a single page web application that allows users to input information and it will validate the information and provide meaningful feedback if validation has failed or passed.

# Requirements

- To be a single web application.
- Using the destinations featured in the movie, 'Goodbye Pork Pie'.
- Each step is clear and understandable.
- The application should be responsive to at least Tablet and Desktop view.
- No errors to be present within the app.

#### **Due Date**

14th December 2017, 3:30pm.

# **View Final Application here:**

https://fpwl.github.io/DrivePie\_Application/



# **Library & Plugins**

#### **Foundation Libraries**

#### **JavaScript Library**

jQuery was used for this application project to allow the use of jQuery plugins and for efficiency and optimisation during development as it allowed the use of shorthand code.

# **Bootstrap UI Library**

Bootstrap was added to minimum development time for UI components. The Bootstrap components which were mainly used were the buttons and modals.

# **Third Party/Plugins**

# MapBox JavaScript API

## https://www.mapbox.com/mapbox.js/plugins/

The MapBox API was used to display the map and markers to the user for a visual interpretation of the user's chosen route.

#### **Font Awesome**

## http://fontawesome.io/

Font Awesome is a library that provides scalable and customisable vector icons. Although Bootstrap has its own icon library I decided to use Font Awesome because there were more variation and the icon aesthetic was more compatible with my UI design.

#### **Tooltipster**

#### http://iamceege.github.io/tooltipster/

Tooltipster is a flexible and extensible jQuery plugin for modern tooltips. This plugin was mainly used for validation purposes. Tool tip messages were shown when conditionals were not meet.



# **Production Tools & Software**

#### **Tools Used**

## GitHub Desktop App

I used the GitHub app for efficiency and ease of use when committing work to my repository.

#### Asana

Asana helped with planning out the tasks in a more visual way. It was helpful especially during the beginning of the project to get planning and initial tasks under way.

#### Visual Studio Code

Visual Studio Code was the code editor used throughout the project. It was used as it was the preferred editor as well as it allowed the terminal to be used within the code editor.

# Gulp

Initially gulp-sass was only used to convert Sass files to CSS. Further into the project more gulp tasks were added to validate the Sass and JavaScript files

# Functionality & UI

The UI design has been designed in accordance to the user flow set at the beginning of the project. The JavaScript has been code and logically ordered in sections to aid readability. Comment have been added throughout the code to further aid the readability of code.



## **Validation**

To ensure the correct information has been gathered and displayed according to the user flow validation was an important part of the development process.

Each question contains an arrow button representing a next button, when clicked the button will validate the current question. If the information is not correct a tooltip will pop up to alert the user.

#### **Question One**

A selection must be selected to proceed to next question, if the user did not choose a type of trip a tool tip will pop up to notify the user.



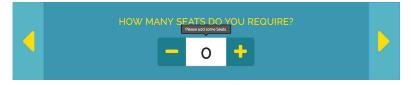
#### **Customise Location Route Question**

In the customise route section, the select boxes respond to each too other. When a location option from one select is chosen the location option will be disabled in the other select. If one or both selections do not have a location value a tool tip will appear to notify the user.



#### **Question Two**

At least one seat must be added to proceed to next question, if no seat has been added a tool tip will pop up to notify the user.

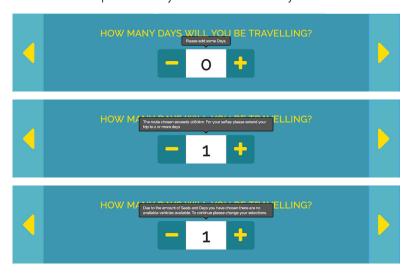


#### **Question Three**

To proceed to the next question a certain amount of days must be entered depending on the number of seats chosen and length of the route chosen. A tool tip will pop up to notify the user when their selection does not meet the conditions.

A tool tip will pop up when a trip that exceeds 1080km and the trip length is less than two days because driving over 1080km in one day is not recommended.

When there are no vehicles available with user's selection another tool tip will notify the user to modify their selection.



# **User Testing and Feedback**

User testing was conducted after the initial website was completed. The purpose for conducting the user testing session was gather feedback and find bugs that may have been missed during development. Majority of the feedback were to do with the UI therefore changes were not made for every feedback.

One of the bugs that occurred during test was nothing happened when there were no vehicles available with the selection the user had chosen. This was fixed by adding When there are no vehicles available with user's selection another tool tip will notify the user to modify their selection.

# **Deadlines**

# Pre Development Stage Tasks

Due Date: Nov 23rd

Task: Planning project tasks and initial set up

Result: Achieved.

Due Date: Nov 24th

Task: Research ideas and designs

Result: Delayed. Could not decide on a UI idea and overall idea.

Task Completed (25th Nov)

Due Date: Nov 25<sup>th</sup>

Task: Colour and font research.

Result: Achieved.

Due Date: Nov 25<sup>th</sup>

Task: Establishing a User Flow Result: Achieved. Early (24th Nov)

Due Date: Nov 26<sup>th</sup>

Task: Sketches of App concepts

Result: Delayed. Creating a UI design that was aesthetically pleasing and fits the

user flow took longer than expected. Task Completed (28th Nov)

Due Date: Nov 27th

Task: Research plugins and ways to implemented plugins

Result: Delayed. Due to delayed UI design progress researching plugins was

delayed. Task Completed (28th Nov)

Due Date: Nov 28th

Task: High-fi Wireframes

Result: Achieved. This was task completed at the same time as sketches as it was

more efficient to move to this task right after the design concept stage.

Due Date: Nov 29th

Task: Setting up files and Defining variables and Mixins

Result: Delayed. Wanted to finalise and ensure all planning was completed before

moving to HTML and CSS development. Task Completed (30th Nov)

# **Development Stage Tasks**

Due Date: Dec 6th

Task: HTML and CSS Development Result: Achieved. Early (3rd Dec)

Due Date: Dec 7th

Task: Break down JavaScript process into tasks and steps to achieve

Result: Achieved. Early (3rd Dec)

Due Date: Dec 7<sup>th</sup>

Task: Define some JavaScript Rules
Result: Achieved. Early (4th Dec)

Due Date: Dec 8th

Task: Define some JavaScript Rules

Result: Achieved. Early (4th Dec) note: There were more pseudocode written

during development stage as certain task were more complex to figure out.

Due Date: Dec 12th

Task: JavaScript Development

Result: Achieved. Early (9th Dec) note: ) Although the initial application was

completed there were minor bugs that require fixing after user testing, also

refactoring of the code was done to condense the code.

Due Date: Dec 13th

Task: Write/Polish documentation

Result: Achieved.

Due Date: Dec 14th

Task: Final check-up and fixes. Hand-in

Result: Achieved.

# **Project Overview and Reflection**

Overall I believe the application has turned out well, it is simple and is easy to use. If I had more time I would make a few improvements to enhance the functionality and aesthetic of the application. Too improve the visual aspects I would want to add more visual material, like images of the locations. For the functionality and user experience I would like to add an option to add way points between start and end locations but also able to show the actual route on the map instead of just showing markers. Another improvement would to make the application responsive in all devices rather than just tablet and desktop.