



FOUNDATION CODING

Transport

2017

27 November ~ 15 December

Tourism
New Zealand

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Intorduction



This project is entrust by Tourism New Zealand. The main cause of this entrust is to build a tool on their website. Which can help the traveler to plan their trip more easier and know what type of vehicle they can rent from the Tourism New Zealand Company.

Communication

The tool will be hidden beside the main home page, the user can click the button on the main page that will bring the tool on the home page. The tool style will be similar to the main page. It will display options that show the vehicle types, economic infomation and travel place. For the functionality, the user can input the numbers of people and days to filter the vehicles option which fit for them.

Timeline

Project: 27 November 2017 ~ 15 December 2017

Proto type: 15 December 2017

Agreement & Contract



The contracting parties

This contract is between

Tourism New Zealand

hereafter referred to as the “Client”.

and

Jesse Shiao

hereafter referred to as the “Contractor”

1) Who will actually do the work?

All work will be carried out by the Contractor, or by sub-contractors working to specifications determined by the Contractor.

2) What work will be done?

The contracted work for this contract is detailed in the previous section. Any work that is requested by the Client after this contract has been signed, will be subject to a separate contract.

3) What about the content?

Everything is supplied by the client, unless otherwise agreed. All images, text, data or other content supplied or used on this site must be either copyright-free, or owned by the client. When the supply of content is critical to the progress of the development of the site, this will be clearly indicated in the “Contracted Work”

section. Failure to supply content by the agreed dates may affect the deadline, or even the delivery of the site.

4) Site hosting

Much of the code needed for most web sites has already been written by the contractor, and tested on the Contractor's web servers. If the site is not hosted on servers operated by the Contractor, problems may arise which are due to the way the web server has been set up.

Final completion time is rarely affected by problems with other servers, but the Contractor reserves the right to extend this date if necessary. Additional charges may be incurred. The Contractor agrees to keep the Client informed of any such situation as it arises. Web site hosting will be covered by a separate agreement. Charges commence on publication.

5) Charges and Quotes

Unless otherwise agreed, the Contractor will provide an estimate of the potential cost, and/or hours for the job as understood at that time. The quote in the "Contracted Work section will be based on more research, and will incorporate changes agreed by negotiation. It will be either:

a) A fixed sum for an agreed task.

or

b) An hourly rate with an estimated number of hours required. In this case the Contractor will

charge only for the hours spent on the job, and will notify the Client when 80% or the agreed time has been spent. If further time is required, an estimate will be provided.

6) Payment

Unless otherwise agreed, a standard hourly rate of \$xx (ex GST) will be applied to all work agreed on and listed in the “Contracted Work” section of this document.

A 50% deposit, plus any additional one-off charges, for example, but not exclusively, URL registration fees, Fee for alternative hosting, additional software required etc, must be paid before any work is commenced. If the quote has been provided on an hourly basis, the initial invoice will be for half the estimated time. When that time has been reached, invoices will be sent weekly, unless otherwise arranged. Invoices are sent by email only, and terms, unless otherwise agreed, are payment in full in 7 days.

7) What is the process?

Where possible, all work will be carried on a development server on a sub domain of one of the Contractor's web. Search engines are repelled as much as possible at this stage to avoid any unfortunate caching of development code being cached by Google.

Once the site is working to the agreed specifications, and all design details have been resolved, the final sums are due. Upon payment

the site will be transferred to the Client's URL, and be published. There will be a period of 28 days from publication when the Client may request minor changes without further charges. Major changes or new functionality will be subject to a new agreement and contract.

8) Who owns the code?

The Contractor may write some of the scripts and develop part of the database as part of establishing the quote, but reserves the right to uplift the code and the database at any stage before this contract is signed.

When final payment has been made, the Client has the right to use all the code supplied by the Contractor forever, but the Client may not re-use the code, or allow it to be used, on any other web site without the prior agreement of the Contractor.

Contractor:

.....

Date:

Client:

.....

Date:



Internal

Research



TRIP PLANNER

LEAVING FROM
Origin

LOOKING FOR
Any category

DATE
Any Time

DURATION
1 week

PRICE FOR RETURN TRIP
Any price

SEARCH

Trip planner example

Moble app trip planer.



New Zealand tours travel plan tool.

Book a flight

From: Christchurch To: Airport or City

Return trip One-way trip Book a multistop trip

Leave on: Enter a date (e.g. mm/dd) Return on: Enter a date (e.g. mm/dd)

Adults: 1 Children: 0 Infants: 0

Book a child traveling alone

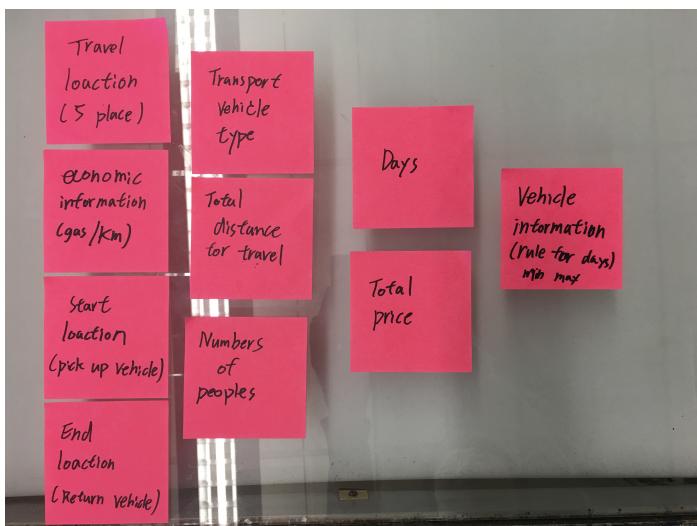
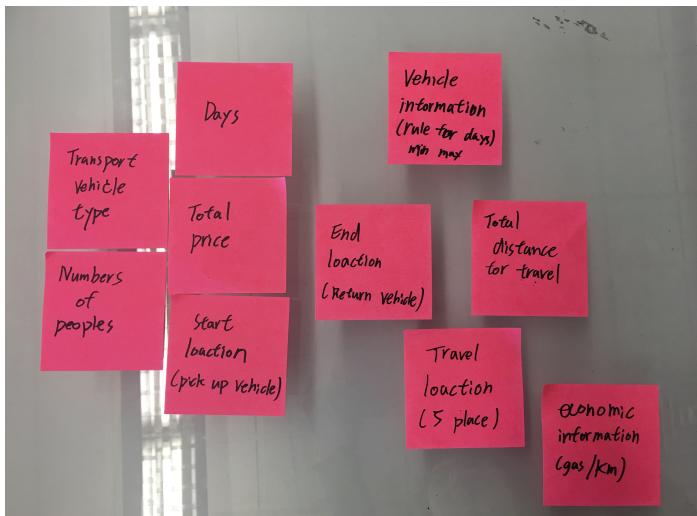
Service class: Economy - lowest Promo code: Optional

[Search](#)

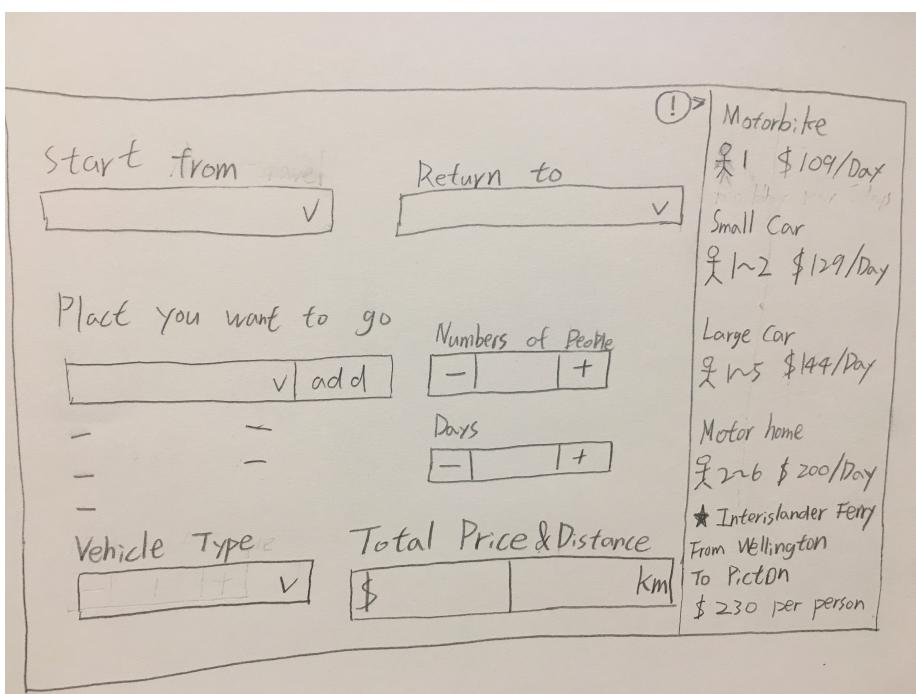
Air New Zealand trip planner booking tool.

Strategic Planning

Card Sorting



Wireframing



Conceptual Designs

Low Fidelity Prototyping

Start From	Return to	① >
<input type="text"/>	<input type="text"/>	
Place you want to go	Numbers of People	
<input type="text"/> v add	<input type="text"/> - 1 +	
-	Numbers of Day	
-	<input type="text"/> - 1 +	
Vehicle Type	Total Price & Distance	
<input type="text"/> v	<input type="text"/> \$ <input type="text"/> km	
* Interislander Ferry Wellington ↔ Picton \$230 per person		

Start From	Return to	② >
<input type="text"/> v	<input type="text"/> v	
Auckland	Christchurch	
Place you want to go	Numbers of People	
<input type="text"/> v add	<input type="text"/> - 2 +	
Wellington	Numbers of Day	
Rotorua	<input type="text"/> - 4 +	
Taupo		
Queens Town		
Total Price & Distance		
<input type="text"/> \$ <input type="text"/> km		
Vehicle Type	<input type="text"/> v	
	motorbike	
	Small car	
	Large Car	
	Motor Home	

Start From	Return to	③ >
<input type="text"/> Auckland v	<input type="text"/> Christchurch v	
Place you want to go	Numbers of People	
<input type="text"/> v add	<input type="text"/> - 2 +	
- Wellington	Numbers of Day	
- Queens town	<input type="text"/> - 4 +	
Vehicle Type	Total Price & Distance	
<input type="text"/> Small Car v	<input type="text"/> \$ 976 / 1702 km	

Feedback:

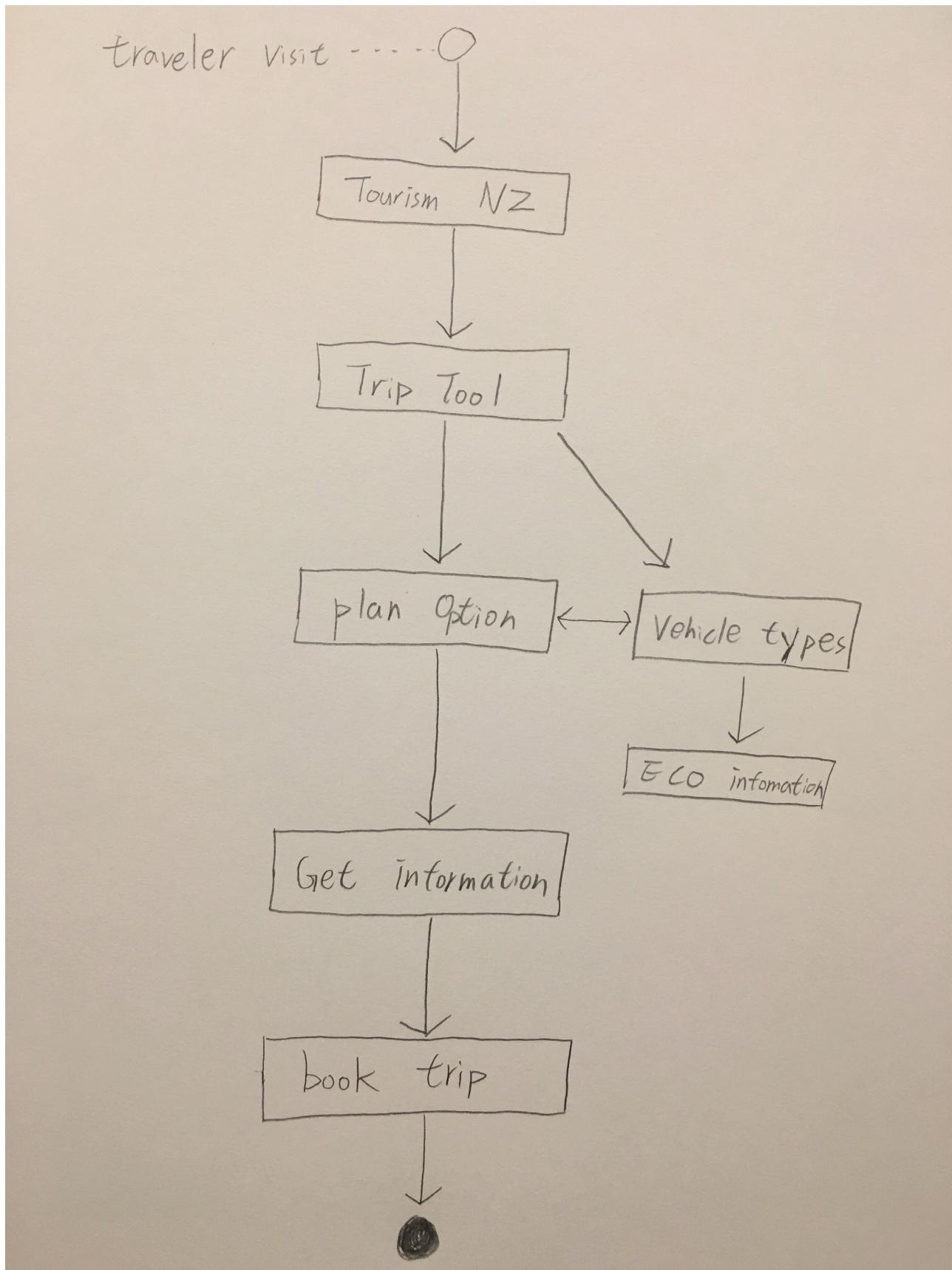
The output area is too small, bigger output can get the users attention.
 No vehicle picture display.
 The layout is not balanced.

Start From	Return To	④ >
Auckland ▼	Christchurch ▼	
Place You Want To Go ...	Numbers Of People	
<input type="text"/> ▼ Add	<input type="text"/> - 1 +	
-	Numbers Of Day	
-	<input type="text"/> - 2 +	
-		
Vehicle Type		
Small Car ▼		
Total Price	488 \$	
Travel Distance	1218 Km	
Motorbike 1 \$109 / Day <small>Fuel Costs 3.7L / 100km</small>		
Small Car 1~2 \$129 / Day <small>Fuel Costs 8.5L / 100km</small>		
Large Car 1~5 \$144 / Day <small>Fuel Costs 9.7L / 100km</small>		
Motor Home 2~6 \$200 / Day <small>Fuel Costs 17L / 100km</small>		
* Interislander Ferry Wellington ↔ Picton <small>\$230 per person with vehicle</small>		

Feedback:

Same color for all the page, use different color for the output area and change the information block background color.
 Add some note for the tool information and tool title.
 Can let the output show up at the bottom after the vehicle chosen.

Activity Diagram



Timetable

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	EM
					Time estimated	Time spent	Time (left)																				
1	Task (to Edit this file go to File > Make a Copy)				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	30	
2																											
3	Planning	5	5	0	3	2																					
4	Research	3	3	0	1	2																					
5	Kick-Off Meeting	2	2	1	1																						
6	Client Documentation	15	15	0	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
7	Conceptual Designs	3	3	0	2	1																					
8	Visual Design	3	3	0	2	1																					
9	Use-Case Diagram	2	2	0	1																						
10	UI Components Design	1	1	0	1																						
11	HTML/CSS Coding	30	30	0	4	3	3	3	5	1	1	2	1	2	2	2	3										
12	JavaScript Coding	20	20	0	1	2																					
13	JavaScript Debug	5	5	0	1																						
14	User Test 1	1	1	0	1																						
15	Modification 1	3	3	1	1																						
16	User Test 2	1	1	0	2																						
17	Modification 2	3	3	1	1																						
18	Final Product	3	3	0	3																						
33																											
34	TOTAL	100	100	3	3	4	3	3	3	3	3	1	5	4	6	3	5	4	3	3	3	10	9	10	6		
35	Daily burnout	12	5	4	5	4	5	4	5	4	5	4	4	5	4	4	4	4	4	4	4	4	5	0			
36	Total time left (from estimate)	100	95	91	86	82	77	73	68	64	59	55	51	46	42	38	34	29	25	21	17	12	12	12	12		
37	Total time left (from spent)	100	97	93	90	87	84	81	78	75	74	69	65	59	56	51	47	44	41	38	28	19	9	3			

Technical requirements

UXPin
Visual Studio Code

CodePen
GitHub



Appendices

Reflection

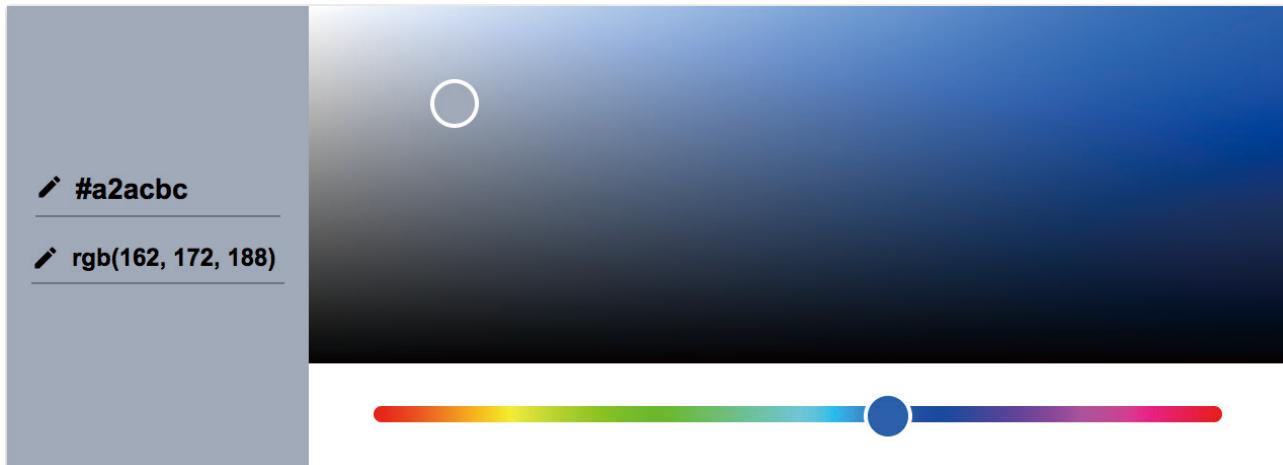


Visual Studio Code plugin

The screenshot shows the Visual Studio Code Marketplace interface. It displays four recommended plugins:

- Beautify 1.1.1** by HookyQR: "Beautify code in place for VS Code". It has 1.6M installs and a 4.5 star rating.
- jQuery Code Snippets 0.0.1** by Don Jayamanne: "Over 130 jQuery Code Snippets". It has 223K installs and a 4 star rating.
- Live Server 3.0.0** by Ritwick Dey: "Launch a development local Server with live reload feature for st...". It has 151K installs and a 5 star rating.
- vscode-jq 0.0.18** by andricDu: "jq plugin for Visual Studio Code". It has 2K installs and a 4 star rating.

Css color picker



Chrome DevTools

The screenshot shows the Chrome DevTools interface. The Network tab is active, displaying a call stack for a JavaScript file named "main-nav.js". The stack trace shows several functions being called, including "filterByDays", "filterByVehicle", and "getVehicleList". The right side of the screen shows the Sources tab, which is currently viewing the "main-nav.js" file. The code in the Sources tab includes comments explaining the logic for filtering vehicle lists based on days and numbers of people.