

<b>DATE</b>	14 October 2013
<b>TIME</b>	3.45pm
<b>VENUE</b>	Green Transformation Lab
<b>ATTENDEE(S)</b>	Chua Pei Shan, Gwendolin Tan, Ng ZhenYuan, Lim Xin Yi, Shemin Ang Client: Mr Tan Pan Jin, Ms Tan Kar Way
<b>ABSENTEE(S)</b>	-

<b>AGENDA</b>	<ol style="list-style-type: none"> <li>1. Change in Requirements</li> <li>2. User Interface</li> </ol>
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Topics	Details
Discuss Project Scope with Client	<p>Suggestions</p> <ol style="list-style-type: none"> <li>1. Chart use D3 for interactive chart display.</li> <li>2. Web Framework – Angular JS</li> <li>3. User Interface – Twitter Bootstrap</li> <li>4. For the Project, there are three portion:                             <ul style="list-style-type: none"> <li>• Design Portion, Calculation Portion, Results Portion.</li> </ul> </li> <li>5. Open Source: Open Street Map</li> <li>6. Ocean Distance use: Dataloy.com                             <ul style="list-style-type: none"> <li>• Needs to be authenticated. (Use credentials)</li> </ul> </li> <li>7. Check if Google can give shortest distance between two points.                             <ul style="list-style-type: none"> <li>• Use calculation to calculate.</li> <li>• Use Radius of the globe.</li> </ul> </li> <li>8. Have a drop down list of countries when the user wants to relocate the country by typing. Create Google Service, specify which location at which country.</li> <li>9. Mongol DB:                             <ul style="list-style-type: none"> <li>• Non-relational (Non-normalize data)</li> <li>• Can have nested object.</li> <li>• Everything stored inside Mongol is like a JSON Object.</li> <li>• Manipulate large data.</li> </ul> </li> <li>10. Suggestion:                             <ul style="list-style-type: none"> <li>- Lane should contain pins only. Location information should not be in the Lane Table Database</li> <li>- Think if we want to use JSON or XML.</li> <li>- Store in relational format. Calculation can be stored in the transient database.</li> </ul> </li> </ol>

- Redundancy – make query a lot of faster.
- How much data to store.
- Types of aggregation.

#### 11. Scope Clarification:

- Change location, references are still there.
- Trade Lanes: Start from product, then specify volume. After that input the point to point, followed by typical transportation mode.
- Each product:
  - Consists of a mode, mode split into air, ocean and land (Just assume building to building – do not need to consider the transport from airport to DC (road portion))
  - Only the primary mode (Port to Port).
  - Each mode split into sub-mode.
- Marker/Pins can be anywhere to anywhere.
- Do not need to take into considerations about the dist between the DC to the port because compared to the ocean's distance, the land distance would be insignificant.

#### 12. Additional Scope

- Login and Logout
- Database
- Plotting Cost over years.
- Four Scenario of What-if (Good to Have – Should have at least 1 or 2) – X FACTOR!

##### a) Base Scenario

- Panel on the left is map, right is chart.
- Drop Pin
- Save the scenario as a base line.
- Move DC, Number should remain the same.
- Distance Changed, Calculate again.
- Save the scenario as another scenario.

\*\* Client is alright as long as there is Somewhere that can call out different scenario.

##### b) Consolidation and Deconsolidation. (One DC to Multiple DC)

- Adding and Deleting of Lanes.
- Click and select split (Ideal). Else we can do add / delete.
- MUST HAVE: Edit Mode, Add, Delete or Edit Lane. Add Pin and Delete Pin and Edit Pi (Change of Location)
- Write a Function to put all these together.

	<p>c) Location Change.  d) Transportation mode change.  e) Changes over a period of time.</p> <p>13. Herokuapp.com  - Platform where we can deploy.  - Hosting Platform</p> <p>14. Use GIT Hub instead of SVN.  15. Cloud used to develop the app.</p>
<p>User Interface</p>	<p>Profile Management Page  1. Probably change the numbers / constant only.  2. Fixed the rest of the formula.</p> <p>Form for Lane Details  1. Mode of Transportation – Percentage in Slider. FCL &amp; LCL and Cost per unit for each mode.</p> <p>Home Page (Adding Lane Details)  1. Change Submit to Analyse Button.  2. Scenario Name should be in front – can be at the product category. (2DC Scenario)</p> <p>Analysis Page – Single Scenario  1. Have a save button.  2. Do not need to highlight.  3. Key thing is the total.  Calculation: Extract Distance, Mode, Sub Mode, Volume and all the others.</p> <p>Edit Single Scenario  1. Go to the page with the all the pins (Skip the Product Category)  2. Prompt User to Scenario Management Page when he/she selects save on analysis page.</p> <p>Single Factor – Plot Scenario on one axis and the factor on another axis  Multiple Factor – X axis – CO2, Y axis – Time, each point is Scenario  Normalize Factor – Y axis - CO2/Time (Can choose between the factors), X axis – Scenario</p> <p>Specify that all these numbers are for one year only.</p>
<p>AOB</p>	<p>1. Have a fully integrated web service by Acceptance.  2. Implement a simple calculation.  3. Focus on functionality first instead of developing Login/Logout first.</p>

## Meeting Minutes 4 with Client | 2013

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	<ol style="list-style-type: none"><li>4. Map, Lanes and Simple Calculation (Time)</li><li>5. Customer Requirement Document should add in the calculation.</li><li>6. Add in which web service to use.</li><li>7. Angular JS and Node JS</li><li>8. Use SQL, recommend postgres</li></ol>
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S/N	Task	Member Responsible	Due Date
1	Write an email to Andrew to get the authentication for the dataloy	Pei Shan	14 Oct 2013 (Completed)

The meeting ended at 6.30pm. These minutes will be circulated and adopted if there are no amendments reported on the next three days.

Prepared by,  
Xin Yi

Vetted and edited by,  
Pei Shan