**Table of Content**

**Introduction** pg.2

**Project Background** pg.2

**Project Aim** pg.2

**Project Objective** pg.2

**Project Scope** pg.3

**Work Breakdown** pg.3

**Gantt Chart** pg.4

**Development Software/Hardware** pg.4

**Demo Environment Software/Hardware** pg.4

**Methodology Diagram** pg.4

**Methodology Justification** pg.5

**Risk Management** pg.5

**Reference List** pg.5

**Project title: Food Truck Tracker**

**Project type: Web based solution**

**Members:**

1. Lee Chee Hao B1403018
2. Low Boon Kiat B1402859

**Introduction**

Nowadays, food trucks have become a norm in our everyday live. More and more food trucks are sprouting out in busy working areas and school areas like mushrooms and the food truck business is getting better by the day as busy workers and students rather buy foods from food trucks on the go rather than going to diners as the food sold by food trucks are normally cheaper than those sold by diners. By using our website - Food Truck Tracker(FTT), customers are able to immediately get the location of all the registered food truck in the surrounding area.

**Project Background**

As it is hard to keep track of the location of your favourite food truck nowadays as most of them don’t really have an official website and some of them don’t even have a facebook page that provides any information about the food truck, so what we are doing is to create a website that provides all the information about the food trucks on Food Truck Tracker and customers would be able to check out those info anywhere and anytime as long as they are linked to the web.

**Project Aim**

The aim of the project is to overcome the problem that most students and busy office workers have in busy town areas - knowing if their favourite food truck is available to  them right now. Users are able to instantly know if their favourite food truck is operating near them today or if they have to opt for other options.

**Project Objective**

The objective of the project is let user to register and login to our website to check the food truck location. So there are few objective of the project:

* To create a website that allows users locate any food trucks in their area.
* Maintain the website so that the website is always smooth and doesn’t crash.
* Save user’s time as they can decide what they want to eat by looking up the menu of the food truck before they arrive.
* Lets users to check if the food truck they would like to dine from today is open or closed.

**Project Scope**

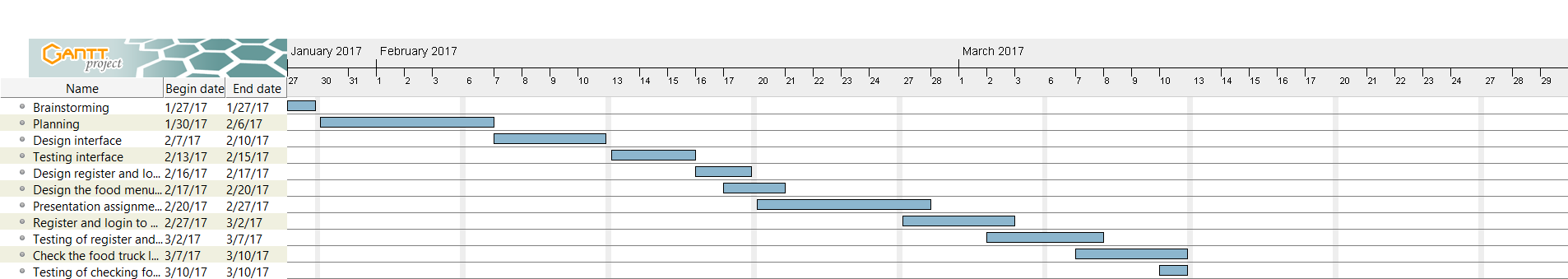
The scope of the project is let user to register and login to our website to check the food truck location. So here are the scopes of the project:

* Allow user to register and login to our website.
* Allow user to check the food truck’s current location.
* Allow user to know what food truck are nearby them.
* Allow user to view a food truck’s menu.

**Work Breakdown**

|  |  |  |
| --- | --- | --- |
| Activity | Milestones/Deliverables | Date |
| Brainstorming | Finalized the project title | 27/01/17 |
| List all the requirement | Preparing the proposal | 30/01/17 |
| Iteration 1 | | |
| Design the interface | Design FTT(Food Truck Tracker)interface | 08/02/17 |
| Test the interface | FTT interface should be display | 13/02/17 |
| Design the register and login page | Register and login page can be display | 15/02/17 |
| Design the food menu page for each food truck | Food menu can be display | 18/02/17 |
| Preparing presentation for assignment 2 | Presentation for assignment 2 | 20/02/17 |
| Iteration 1 end , iteration 2 begins | | |
| Able to register and login to their account | User can register and login | 25/02/17 |
| Testing of register and login account | Account can be register and login | 02/03/17 |
| Able to check the food truck’s location | User can check the food truck’s location they want | 07/03/17 |
| Testing of checking food truck location | Food truck location can be track by website | 10/03/17 |
| Iteration 2 end | | |

**Gantt chart**



**Development Software/Hardware**

|  |  |  |
| --- | --- | --- |
| Software name | Software version | Purpose |
| Wordpress | 4.7.2 | To create website layout and build out the functionalities of the website. |
| XAMPP | 1.8.3 | To act as a server to store all the data of food trucks. |
| Netbeans IDE | 8.1 | Used to create java codes. |

**Demo Environment Software/Hardware**

The software that we would be using to demonstrate the capabilities of our prototype would be google chrome(ver. 3.30.33 and up), Mozilla Firefox(ver.38 and up) and Safari(ver.8 and up).The OS of the PC should be at least Windows 7. Any android device would need to be running on version 4.3 or above while Apple iphone(s) has to be running on iOS 7 or above. The hardware of the computer trying to access the website should have at least a dual core processor with 2GB of RAM.

**Methodology Diagram**

We chose to use the Spiral model for this project because it is a very flexible model as it is combination of idea of iterative development with the systematic, controlled aspects of a waterfall model. There are four phases to the spiral model, which are identification - the part where we gather information on what is expected from the project and what it can do, design - the part where we plan how to construct the project itself and how the interface will look like, construct - actually starting to make the project itself and evaluation and risk analysis - where we evaluate the creation and determine if it matches what we had planned and plan for any changes.

**Methodology Justification**

The reason we chose to use the Spiral model as it has a high amount of risk analysis therefore avoiding unnecessary risk, it is also good for large and mission critical projects. The Spiral models provides strong approval and documentation control as additional functions can be added at a later date if we had missed it during the planning phase.

**Risk Management**

|  |  |  |  |
| --- | --- | --- | --- |
| Risk | Likelihood | Impact | Mitigation |
| Members getting sick | Low | Low | Members should have a moderate lifestyle to ensure that they are always performing their best. |
| Coding failure | Moderate | High | Members should check for errors every time they finish a set of codes. |
| Computer failure | Low | High | Constantly saves our progress to offsite backups to mitigate the loss in case of a computer failure. |
| Lack of communication | Low | Moderate | Keeps members well informed through emails and group chats. |
| Team member leaves | Low | High | Constantly keep good relation between members to keep them working together in a friendly manner. |

**Reference List**

1. SDLC - Spiral Model. (n.d.). Retrieved from <https://www.tutorialspoint.com/sdlc/sdlc_spiral_model.htm>
2. What is spiral model- advantages, disadvantages and when to use it. (n.d.). Retrieved from http://istqbexamcertification.com/what-is-spiral-model-advantages-disadvantages-and-when-to-use-it/