Progress Report

1 Main Tasks Completed

* Functional and nonfunctional requirements
* Use case diagram
* Domain model
* State chart
* Work plan for remaining iterations of TreePLE.
* Requirements-level activity diagram(s) covering the main scenario for managing trees for all stakeholders.

2 Leadership roles

While every member of the team has a responsibility to ensure the overall success of this project, we have assigned roles that bet suit the expertise of each member. This allows us ensure accountability and efficiency within the team.

* Project Team Leader: *Ilana Haddad*

Helps maintain schedule and organizational structure to team members and external influencers. Develops project plan to achieve project criteria. Also schedules meetings, takes minutes at meetings and ensures project documentation is always in order.

* Chief Technical Officer: *Diana Serra*

Manages entire project design and development teams and ensures interfacing of all software components.

* Web Developer: *Jessica Udo*

Responsible for building the website for TreePLE, the back end and all the infrastructure that sits behind them.

* Android Developer: *Thomas Hannaford*

Responsible for building the android front end application for the TreePLE.

* Software Tester: *Asma Alromaih*

Tries to anticipate all the ways the application or system might be used and how it could fail. Responsible for preparing test scripts and macros and analyzing results.

3 Work Hours   
 3.1 Work Hours for Deliverable 1

|  |  |  |
| --- | --- | --- |
| **Members** | **Hours** | **Summary** |
| **Asma** | 10 | Overall structure of the document(1.5 hrs), brainstorming sessions(use case diagram sketch, requirements, Umple model sketch)(5hrs), Umple model & class diagram(2hr), editing requirements(1.5hr). |
| **Diana** | 11 | Two group meetings for requirements, use case diagram sketch, and domain model (5 hours), Use Case Diagram descriptions (5 hours) and helping with others' tasks (1 hour) |
| **Ilana** | 15 | Two group meetings for requirements, use case diagram sketch, and domain model (5hrs), State Chart (5hrs), Use Case Diagram completion (2hrs), contributing to others’ tasks (3hrs) |
| **Jessica** | 9 | Two group meetings (5hrs), writing out documentation for meeting logs and progress report (3hrs), editing and completing deliverable (1hr). |
| **Thomas** | 11 | Two group meetings consisting of brainstorming sessions on the use case diagrams, requirements and the domain model (5 hrs), activity diagrams (3 hrs), various help and editing (3 hrs) |

3.2 Work Hours for Deliverable 2:

|  |  |  |
| --- | --- | --- |
| **Members** | **Hours** | **Summary** |
| **Asma** | 10 |  |
| **Diana** | 11 |  |
| **Ilana** | 15 |  |
| **Jessica** | 9 |  |
| **Thomas** | 11 |  |

4 Key Design Decisions

When formulating our requirements and designing our diagrams we had to make several key design decisions in order to clarify any ambiguities and fully understand the needs of the client.  Our design decisions were therefore taken based on the two following principles:

* The Android app would be primarily used to enter information and data relating to each new or existing tree
* The Web application would be primarily used to browse, filter and compile reports on all the information and data entered by users in the Android app

**Interface and functionalities**

Using these principles, some of the key design decisions taken that were not explicitly outlined in the requirements include:

* The web application will include a map rather than a list for a more aesthetic user interface.
* In order to offer as much flexibility as possible when compiling reports by area/location, the user will be able to select the area they want to analyze by delimiting a perimeter on the map. This will use the trees’ information relating to latitudes and longitudes.
* Trees that are cut down will remain in the system as historical data. They are therefore not ‘deleted’ or suppressed from the system. Our system currently does offer a ‘delete’ functionality for mistakes should a user have entered the wrong information. We will assess whether this is needed in subsequent meetings.

**Use Cases**

* We have designed two separate use case diagram for the *Web* and *Android* applications for simplicity/
* There are two actors included in the android use diagram: The *Resident* and the *Professionals. As per,*the project description document, these are the users with access to the TreePLE from the android application.
* Since, the forester, scientist and municipal arborist have similar access rights, we decided to categorize them together for our Android use case diagram.
* Only the Professionals, however, have access to the TreePLE system from the Web front end, as indicated in the Web use case diagram.
* Each user acts upon multiple use cases respective to their functionalities mentioned in the Requirements section of this document.

**Activity Diagrams**

* Each user, whether a local resident or professional is required to login before accessing the system.
* This log in allows us authenticate the user. Moreover, since it is required that only local residents can mark tree as planted or cutdown, it also allows us validate the location of the user and the ownership of a tree by the user.

**Sequence Diagram**

* For convenience and concision, we decided to design sequence diagrams for each main user action.
* The sequence diagram may contain actions from multiple user classes to emphasize the sequence.

5 Meeting Logs

*5.1 Deliverable 1 Meetings*

*5.1.1 Meeting 1*

Date: February 6, 2018

Time: 7:30-9:30pm - 2hrs

Location: Trottier 5103

Purpose: Deliverable 1 preparation

Members: Everyone

Meeting minutes:

* Introductions
* Overview
* Listing of requirements
* Created use models for Android and Web
* Action Items for next meeting
* We should all come up with our own domain models
* Brainstorm the other models to be completed in Deliverable 1
* Next Meeting
* Scheduled for Saturday, February 10th @ 16:00

*5.1.2 Meeting 2*

Date: February 10, 2018

Time: 4:00-7:00pm (3hrs)

Location: Trottier 5103

Purpose: Deliverable 1 preparation (continued)

Members: Everyone

Agenda:

* Compare all our individual domain models and amalgamate them into one model
* Draw our use case diagrams on draw.io & describe in natural language
* Activity diagram
* Traceability between diagrams and requirements

Meeting minutes:

* Finished domain model and began defining it with *Umple*.
* Collaboratively created class diagram, activity diagrams, use case diagrams and state charts.
* Assigned remaining tasks for the "D*eliverable 1"*docuement.

Tasks Assigned:

* Convert hand-written use case diagrams to digital format: *Ilana*
* Convert domain model into Umple: *Asma*
* Change format of requirements to table + trace them to use cases: *Asma*
* Write use cases description for each use case: *Diana*
* Create domain-level state-chart: *Ilana*
* Create requirement-level activity diagram: *Thomas*
* Write progress report: *Jess*
* Complete meeting logs in project documentation: *Jess*

*5.2 Deliverable 2 Meetings*

*5.2.1 Meeting 1*

Date: Friday February 16, 2018

Time: 17:30-18:30 – 1 hour

Location: Trottier Building, Room 5106

Purpose: Deliverable 2 overview and allocation of tasks

Members: Everyone

Meeting minutes:

* Reading over requirements for deliverable 2
* Allocating tasks for Architecture and Detailed Design
* Work plan for next week:
  + Finish Architecture and Detailed Design (40% of deliverable) by end of Tuesday (Feb 20th) night, using Tuesday’s office hours for help if needed
* Next Meeting
* Scheduled for Monday, February 19th @ 15:30

*5.2.2 Meeting 2*

Date: Monday February 19, 2018

Time: 15:30-19:30 – 4 hours

Location: Trottier Building, Room 5106

Purpose: Completing 40% of deliverable 2: Architecture and Detailed Design

Members: Everyone

Agenda:

* Everyone works on their task individually but also in coordination with others for help, guidance, and conformity

Meeting minutes:

*5.2.3 Meeting 3 - Tentative*

Date: Wednesday February 21, 2018

Time: 20:30-22:30 – 2 hours

Location: Trottier Building, Room

Purpose:

Members: Everyone

Agenda:

Meeting minutes:

*5.2.4 Meeting 4 - Tentative*

Date: Saturday February 24, 2018

Time: 15:00-18:00 – 3 hours

Location: Trottier Building, Room

Purpose:

Members: Everyone

Agenda:

Meeting minutes: