

Meeting Log

Key Design Decisions

Team Members:

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Deliverable 1

Friday, February 2:

- Organised our team: Set up the google Drive Folder 321 and set up the workspace on Slack.
- Brainstormed requirements for the system and classify it as Functional or non-functional.
- First draft of domain model using umple
- Decisions to make: the accessibility, who was allowed to mark the state of a tree, who can specify the species of a tree...

Thursday, February 8:

- Revised requirements
 - Specified priorities of requirements
- Selected 5 main requirements that needs to be implemented
- Specified the accessibility, only scientists can mark a tree for cut down.
- Distributed the 5 main requirements to each member for them to do the use case diagram
- Revised Domain model
- State Diagram, and Activity Diagram were done together

Saturday, February 9:

- Each team member should submit their use case for revision.
- Class, State and Activity Diagrams should be finalised.
- Electronic version of Activity Diagram, Domain model, and Finite State Machine.

Sunday, February 10:

- Fill-in personal Progress Report for weekly hours contribution.

Deliverable 2

Tuesday, February 13:

- Meeting with the TA (Camilo Garcia La Rotta)
- Plan for next deliverables
 - Understanding of subsystems
 - Review domain model
 - Step up for the Project-14, with packages

Friday, February 16:

- Updated domain model to specific issues addressed by our TA

- Separated tasks for Android and Web Applications
- Generate Umlle model

Thursday, February 22:

- Meeting:
 - UI mockup for Web frontend
 - Discuss/Finalize Design-Level class diagram (Iliana)
 - Discuss Forecasting and potential version control
 - Finalize Sequence diagrams (Marine)
 - Block diagram
 - JUnit Testing
 - Using the xml file to store the data
- Design Decisions:
 - Tree Status: healthy, diseased, marked to be cut down, cut down
 - Cutdown tree updates tree status to CutDown -- this way the data remains saved
- Still in Discussion:
 - Forecast: version control -- virtual map which calculates potential sustainability attributes; real map with current trees.
 - Graphic map visually depicting trees and their location.

Friday, February 23:

- Meeting:
 - Finalize createTree method and POST.
 - Work through cutDown tree method and logic
 - Review web and android frontend status
 - Decision making on cutting a tree, but keeping it in the data to have a history.
Therefore, only the status of the tree is changed but all data/information on the tree can be retrieved. Started implementation on cutDownTree method.
 - List of remaining tasks to complete for deliverable 2:
 - Design-level class diagram class descriptions
 - Block diagram subsystem descriptions
 - Format + complete deliverable document(s)

Deliverable 3

Sunday, March 4:

- Meeting:

- Map: web and android
- Forecast: new TreePLE manager, same xml file but copy of the tree data with the changes
 - Should support:
 - Cutting down a tree
 - adding a tree: age, species, diameter, canopy
 - Both
 - Biodiversity index, carbon sequestration, canopy sequestration
 - Find formulas
- Create survey
- tree: getAge from date
- setHeight, Diameter, etc, done only by scientist
- Decision for forecast:
 - From the view, will have a button on web to start a forecast.

//note the idea that Anthony suggested HashMaps, no tm, create a list of FakeTrees...

Will copy the current TreeManager into a new TreeManager, where all the prediction and forecasting can be done without affecting the current plantation
- Testing:
 - Write down all test ideas (for unit, system, and integration)

Friday, March 16:

- Meeting:
 - Final draft of all unit tests
 - Distribute unit tests evenly among group
 - Brainstorm about integration and system testing
- Forecast:
 - Start by calculating biodiversity index
 - Users can add trees to a temporary list, or remove trees
 - New biodiversity index can be calculated from these additions or removals
 - Temporary list is deleted

Deliverable 4

Monday, March 26:

Skype Meeting:

- Set up of the documentations
- Distribution of the parts among group

Design Decisions:

- Web: make multiple web pages
- Only scientist can access the web
- Resident and scientists have access to the app
- Latitude and longitude – access through the DTOs?
- Need to try it out
- Forecasting cut down a tree(s)
- Connect mark tree diseased, mark tree for cutdown to android
- Connect survey to web

Things left to be done:

- Web:
 - Connect survey
 - Forecast cut down tree
 - Add different sustainability attributes
 - Make multiple web pages
- Android:
 - Connect mark tree for cut down, mark tree diseased
 - Login ?

Wednesday, March 28:

Meeting work:

- Set up configuration for Jenkins
- Fix bug for building successfully using Jenkins
- Imported the project onto the server (Anthony)
- Sections for documentation for implementation and build
- Tasks left to do, deployment of the application and description for deployment

Thursday, March 29:

_____Meeting work:

- Finalized automatic build for spring backend
- Began build for android frontend
- Completed build for web frontend
- Began script for web and backend deployment
- Modifications to documentation

To do:

- Finalize deployment scripts + documentation

Deliverable 5

Tuesday, April 3rd:

- Meeting with the team for progression
 - Things do be done for the presentation:
 - Powerpoint slides
 - Practice runs
 - Test Android
 - Deploy web through Jenkins
 - Things to be done for the app:
 - Surveys
 - Changing status
 - Measurement checking (i.e. is the height in cm or m)
 - Complete sustainability attributes + link to web frontend
- Presentation:
 - Erion: introduction, what is MonTREEal, tools used
 - Iliana: Architecture - MVC and Client-Server Architecture
 - Marine: Sustainability Attributes, what are they, how are they calculated
 - Anthony: Android and Web demo
 - Wenzong: Plans for the next deliverable, plans for future iterations of the project
- 3 Practice runs in tutorial room, checked that system works, and that we know how to use the projectors

Deliverable 6

Tuesday, April 10th:

- BACKEND:
 - Login
 - Water needed for trees to grow healthily per month
 - Surveys
 - (potentially) list of all available municipalities (would require to copy paste logic from tree species list)
- WEB:
 - Connect frontend to backend
 - List all trees, list trees from municipality, species, resident
 - Forecasting: biodiversity index, carbon sequestration, canopy

- Remove tree, choose id + remove (need to add ui as well as connect)
- Put/remove tree points on the map
- Login
- ANDROID:
 - No login
 - Tap on the map to add a tree

Friday, April 13th:

- Things left to do:
 - Add markers on google maps for Web
 - Test forecasting on web
 - Create registration & login + test on web
 - Add surveys to web: find the problem -- must be something in the logic
 - Take screenshots of Android app, add to GitHub Wiki
 - Complete GitHub Wiki