Work Plan Week 8

*KEY DEADLINES*

* February 11th : Deliverable 1
* February 25th : Deliverable 2
* March 18th : Deliverable 3
* March 29th : Deliverable 4
* April 10th : Deliverable 5
* April 15th : Deliverable 6

*WORKING HOURS*

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| **Team Members** | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** |
| **Filip Bernevec** | 6 | 4 | 5 | 4 | 5 | 6 | 5 | 6 |  |  |
| **Abbas Yadollahi** | 6 | 5 | 10 | 6 | 5 | 7 | 8 | 9 |  |  |
| **Alexander Harris** | 6 | 5 | 7 | 6 | 6 | 7 | 8 | 9 |  |  |
| **Gareth Peters** | 6 | 4 | 5 | 5 | 5 | 6 | 7 | 8 |  |  |
| **Yunus Cukran** | 6 | 5 | 5 | 4 | 5 | 6 | 4 | 5 |  |  |

*TASK ALLOCATIONS*

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| WEEK 1: February 5th – 11th | | |
| **Team Members** | **Leadership Roles** | **Main Task** |
| **Filip Bernevec** | Project Manager | Requirements-level activity diagram |
| **Abbas Yadollahi** | Back-end developer | Domain level statechart + workplan |
| **Alexander Harris** | Android developer | Use case diagram + use case specifications |
| **Gareth Peters** | Web developer | Functional and non-functional system requirements |
| **Yunus Cukran** | Back-end developer | Domain model in Umple and class diagram |

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| WEEK 2: February 12th – 18th | | |
| **Team Members** | **Leadership Roles** | **Main Task** |
| **Filip Bernevec** | Project Manager | Sequence diagrams + Work Plan |
| **Abbas Yadollahi** | Back-end developer | Backend Business Logic + Database |
| **Alexander Harris** | Android developer | Android Front-end |
| **Gareth Peters** | Web developer | Detailed Design of proposed solution + class diagram |
| **Yunus Cukran** | Back-end developer | Architecture of proposed solution + block diagram |

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| WEEK 3: February 19th – 25th | | |
| **Team Members** | **Leadership Roles** | **Main Task** |
| **Filip Bernevec** | Project Manager | Sequence diagrams + Work Plan |
| **Abbas Yadollahi** | Back-end developer | Backend Business Logic + Database |
| **Alexander Harris** | Android developer | Android Front-end |
| **Gareth Peters** | Web developer | Detailed Design of proposed solution + class diagram |
| **Yunus Cukran** | Back-end developer | Architecture of proposed solution + block diagram |

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| WEEK 4: February 26th – March 4th | | |
| **Team Members** | **Leadership Roles** | **Main Task** |
| **Filip Bernevec** | Project Manager | Web front-end start |
| **Abbas Yadollahi** | Back-end developer | Backend + Database |
| **Alexander Harris** | Android developer | Android Front-end |
| **Gareth Peters** | Web developer | Back-end bugs |
| **Yunus Cukran** | Back-end developer | Database bugs |

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| WEEK 5: March 5th – 11th | | |
| **Team Members** | **Leadership Roles** | **Main Task** |
| **Filip Bernevec** | Project Manager | Unit Testing |
| **Abbas Yadollahi** | Back-end developer | Unit Testing |
| **Alexander Harris** | Android developer | Unit Testing |
| **Gareth Peters** | Web developer | Unit Testing |
| **Yunus Cukran** | Back-end developer | Unit Testing |

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| WEEK 6: March 11th – 18th | | |
| **Team Members** | **Leadership Roles** | **Main Task** |
| **Filip Bernevec** | Project Manager | Unit Test Plan + Unit Testing |
| **Abbas Yadollahi** | Back-end developer | Unit Test Plan + Unit Testing |
| **Alexander Harris** | Android developer | Integration Test Plan + Unit Testing |
| **Gareth Peters** | Web developer | System Test Plan + Unit Testing |
| **Yunus Cukran** | Back-end developer | System Test Plan + Unit Testing |

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| WEEK 7: March 19th – 25th | | |
| **Team Members** | **Leadership Roles** | **Main Task** |
| **Filip Bernevec** | Project Manager | Front-end implementation |
| **Abbas Yadollahi** | Back-end developer | Back-end services implementation |
| **Alexander Harris** | Android developer | Android front end features implementation |
| **Gareth Peters** | Web developer | Back-end testing |
| **Yunus Cukran** | Back-end developer | Back-end testing |

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| WEEK 8: March 26th – April 1st | | |
| **Team Members** | **Leadership Roles** | **Main Task** |
| **Filip Bernevec** | Project Manager | Sustainability Attributes & Forecasting Front-End |
| **Abbas Yadollahi** | Back-end developer | Deployment for Backend & Web |
| **Alexander Harris** | Android developer | Deployment for Android |
| **Gareth Peters** | Web developer | Sustainability Attributes & Forecasting Backend |
| **Yunus Cukran** | Back-end developer | Test Cases |

*WORK PLAN*

RED = Task completed

YELLOW = Modification to last work plan

Week 1 (February 5th – 11th)

**Key Deadline: Deliverable 1 Feb 11th**

* Determine the functional and non-functional requirements.
* Determine the use cases with diagram and specifications.
* Design the activity diagram for entire scenario.
* Design the domain model in Umple with class diagrams
* Design the statechart for class Tree.

Week 2 (February 12th – 18th)

* Develop a system architecture including block diagrams.
* Describe a detailed solution including class diagrams.
* Develop a prototype including “Plant Tree” and “Cut Down Tree” use cases for the Java Spring backend and the Web and Android front-end.

Week 3 (February 19th – 25th)

**Key Deadline Deliverable 2 Feb 25th**

* Develop a prototype implementation containing the “List All Trees” use case in the backend and frontend.
* Create an implementation-level sequence diagram from “Plant Tree” and “List All Trees” use cases covering all architectural layers.
* Implementation for Android frontend pushed to next week.

Week 4 (February 26th – March 4th)

* Android front-end implementation with Google Maps API.
* Fixing bugs with the database code and back-end code of several methods.
* Forecast use case implementation pushed to later weeks.

Week 5 (March 5th – 11th)

* Develop test cases for unit testing, system testing and component testing.
* Start testing the software prototype.

Week 6 (March 12th – 18th)

**Key Deadline: Deliverable 3 Mar 18th**

* Write-up of deliverable 3 report and implement test cases for business methods.
* Description of release pipeline pushed to next week.

Week 7 (March 19th – 25th)

* Finalization of the Android Front-end
* Finalization of all the backend services

Week 8 (March 26th – April 1st)

**Key Deadline: Deliverable 4 Mar 29th**

* Web Front-End tree management done, forecasting pushed to next week.
* Sustainability attributes implemented, forecasting pushed to next week.
* Build and deployment phase of backend and web platforms

Week 9 (April 2nd – 8th)

**Key Deadline: Deliverable 5 Apr 8th**

* Create a presentation for the TreePLE application

*Effort estimation 10 hours*

* Complete/review source code of full implementation.

*Effort estimation 30 hours*

Week 10 (April 9th – 15th)

**Key Deadline: Deliverable 6 Apr 11th**

* Submit source code and commit history.