G.U.A.R.D.

Iteration Plan

# 1. Key milestones

|  |  |
| --- | --- |
| **Milestone** | **Date** |
| Iteration start | 24.04.2017 |
| GPS coordinates | 28.04.2017 |
| Node.js server | 05.05.2017 |
| Documentation | 08.05.2017 |
| Iteration stop | 08.05.2017 |

# 2. High-level objectives

* Refactoring of the parking sensors
* Modify Arduino Sketch to support two modes: manual control and GPS following
* Script that gets car GPS coordinates and updates them into a file continuously
* Sending GPS coordinates from the phone to the Pi using a Java Server
* Making a script connecting to the MySQL database and integration with the android application
* Add authentication to scripts for data security
* Configure Node.js on the SKIP server
* Make a proper domain model
* Improved documentation

# 3. Work Item assignments

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Name or key words of description** | **Priority** | **State** | **Reference material** | **Target iteration** | **Assigned to** | **Hours worked (Estimate)** | **Estimate of hours remaining** |
| GPS Following (continue) | Medium | 70% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 6 | Erik Laurin, Gabriel Bulai,  Justinas Stirbys | 30(EL),  15(GB),  10 (JS) | 25 |
| SmartCar coordinates | Medium | 100% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 6 | Gabriel Bulai | 15 | 0 |
| Video Streaming | High | 80% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 7 | Shaun McMurray | 15 | 3 |
| Navigation Drawer (continue) | Medium | 60% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 7 | Boyan Dai | 15 | 12 |
| Node.js server | Medium | 100% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 6 | Justinas Stirbys,  Gabriel Bulai | 25(JS),  3(GB) | 0 |
| Bluetooth connection (refactor) | High | 100% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 7 | Joacim Eberlen | 10 | 0 |
| UML Diagrams | Medium | 50% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 6 | Joacim Eberlen | 5 | 5 |
| Information overview | Medium | 50% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 7 | Joacim Eberlen | 5 | 5 |
| SmartCar function control | Medium | 50% | [Trello Board](https://trello.com/b/5NQi2cqb/product-backlog) | Sprint 7 | Joacim Eberlen | 10 | 10 |

# 4. Issues

|  |  |  |
| --- | --- | --- |
| **Issue** | **Status** | **Notes** |
| Bluetooth Fix | Solved | The bluetooth connection used to time-out due to application orientation view |
| Wireless/Router Fix | Addressed | The router eventually chooses to die |
| Database connection | Solved | MySQL connection with the database used to time-out |
| Communication | Addressed | Continuously working on communication skills |
| Other small issues | Addressed | Small bugs |

# 5. Evaluation criteria

* A favourable response provided by the product owners.
* The ability to continuously connect to MySQL database.

# 6. Assessment

|  |  |
| --- | --- |
| Assessment target | Sprint 6 |
| Assessment date | 08.05.2017 |
| Participants | Michal Palka, Chiara Lucatello, Mayra Soliz, Boyan Dai, Erik Laurin, Gabriel Bulai, Joacim Eberlen, Justinas Stirbys, Shaun McMurray |
| Project status | On Track |

## Assessment against objectives

Objectives were addressed

## Work Items: Planned compared to actually completed

Work items intended to be finished in sprint 6 are completed. The remaining ones are to be continued in the following sprint (Sprint 7)

## Assessment against Evaluation Criteria Test results

Small issues involving bluetooth connection seems to be solved, and wireless connection. Database fully working.

## Other concerns and deviations