The week 4 Software Engineering Group (PG4) Project weekly meeting was held in **Room 462 (Ingkarni Wardli)** at **10:40am on Tuesday 16 August 2016**.

# Minutes

## Chair: Zeqi Fu

## 1 Apologies

- none

## 2 Present

- Tao Zhang

- Yi Lin

- Yuan Liang

- Lili Wu

- Zeqi Fu

- Navdeep Singh

- Yann Frizenschaf

## 3 Client

The team presented the client with the following:

### 3.1 Requirements Summary

Zeqi Fu gave a brief summary of the proposed major features of the SeaFaults SFM.

1. Feature groups identified include: Movement, Mapping, and Vision

2. Possible project management approaches: Waterfall, Evolutionary Development, Component-based Development, and Agile Methods

## 3.2   Additional requirements elicitation

Following on from the previous week, further questions regarding requirements were presented, with the following outcomes:

1. Movement

   - Obstacle detection must be automatic

   - Autonomous control must be a core function, and not an extension goal

   - Emergency stop is a required (core) feature

   - The robot is allowed to exceed the boundary by a small margin based one what is reasonable given the geometry of the robot (i.e. sensor positioning)

   - The robot is allowed to cross fault lines

2. Mapping

   - Map state must be presented visually in real-time via a GUI of the team's choosing (web- or desktop-based)

   - All obstacles, faultines and boundaries must be present in both the real-time map and the XML export

   - XML can be exported after the mapping operation is completed

   - XML loading functionality is required (finish partially completed map)

3. Project management tools

   - Client has no preference on project management tools; this is an internal decision

4. Operations

   - As mentioned previously, a GUI is required. The required controls and display will be defined by the hitherto elicited requirements.

# 4 Presentation of draft requirements for client review

The client was presented with the SRS draft containing the proposed requirements, split into core goals (absolute requirements) and extension goals (nice-to-haves). The client's response to these are shown below.

## 4.1 User requirements

1. All GUI functionality related to autonomous operation must be made a core goal (currently extension)

## 4.2 Functional requirements

1. All functionality related to autonomous operation must be made a core goal (currently extension)

2. FRE005 (export of map image in addition to XML) can be deleted

## 4.3 Non-functional requirements

1. Operating system requirements are to be defined by the team; the client has no preference

2. The system, including the GUI, is to run on hardware provided by the team (i.e. laptop)

## 4.4 General progress update

1. Yann Frizenschaf has been appointed project manager

2. Tao Zhang has conducted basic hardware tests

3. The team has split into three feature development teams: Tao Zhang and Yi Lin will focus on robot Movement, Yann Frizenschaf and Zeqi Fu will focus on Mapping, and Yuan Liang, Lili Wu, and Navdeep Singh will focus on Vision (sensors).

4. SRS is a work in progress and will be submitted in draft form next week

# 5  Other Issues

Nil

Note: Next client meeting to be held on 23 August 2016.