

Minutes

for 15 August 2013

Group 2 regular meeting
venue: IW 462

1 Summary of the meeting

1.1 Next client meeting

1.1.1 Regular process

The chair for next client meeting is Bowen and the one who is going to record the client meeting is Jianqiu. Bowen is responsible to generate the agenda for the next client meeting. The agenda must be put on SVN 24 hours before the client meeting, which is **2.30pm Sunday**. Bowen needs to print the **agenda (and also the minutes of last client meeting)** out and bring them to the client meeting next Monday. Jianqiu should record carefully about the client meeting and generate the minutes after the meeting. He has to put the minutes on SVN 24 hours after the client meeting, which is **2.30pm Tuesday** of next week.

If Bowen is going to allocate some tasks for the group members in the next client meeting, he must tell everyone the **details of the allocation by 2.30pm Sunday**, either by the agenda or by other communication methods.

1.1.2 Deliverables for the client meeting

1. Give a presentation of SRS
2. Show the client the new prototype of the robot and ask for suggestions.
3. Show the client the GUI design and ask for suggestions. (Completing the milestones for Week 5)

The fixed milestones set by the lecturers:

Week 5

GUI mockups

- map display
- robot movement controls
- dangerous zone editing
- map loading and saving
- operator feedback
- robot representation
- + additional features

Week 6

Basic robot movement

- compile and upload code using ant build script
- move robot forward 50cm
- move robot backwards 50cm
- rotate robot 90 degrees clockwise
- rotate robot 90 degrees anticlockwise
- + additional features

Week 7

Map editor

- build and run map-editor code
- load XML map
- show map display on GUI
- specify dangerous zones
- save XML map and reload
- display obstacles on the map
- + additional features

Week 8

Communication

- connect robot and host

- host to robot movement commands
- host to robot light sensor request
- robot to host light sensor data
- host to robot battery reading request
- robot to host battery data
- host to robot tachometer sensor request
- robot to host tachometer data
- emergency stop
- disconnect communications
- + additional features

4. Show the client the milestones for Week 9 and Week 10. Also the milestone form of Week 5 with completed checklist.

1.1.3 Some other questions we need to ask

1. From the DTD example, the two roads are perpendicular to each other, but we still need to ask exceptions. Do they have constant turning angles or not?
2. DTD stated that obstacles can be presented by point. How do the obstacles act as a point physically? How do we differentiate road intersection from point shaped obstacles? We have a plan to use different colours for them, will it work?

1.2 Programming roles

Detailed tasks will release later with Architectural design.

GUI designer

Yifei. Responsible for the GUI class. Milestones for Week 5.

Robot movement designer

Matt and Yu. Responsible for the movement programming of the robot and automation. Milestones for Week 6.

Mapping programmer

Bowen and Jianqiu. Responsible for the decoding of XML resource, map presentation, and map editor. Milestones for Week 7.

Communication programmer

Aziz. Responsible for the Communication class. Milestones for Week 8.

The whole group are responsible for the architectural design. Individuals can propose the design and the whole group will comment and modify. The initial architectural design should be available at the end of Week 5 and the design should be approved by the end of Week 6.

2 Any other issues

Please check the SVN regularly. So does the course forum and course website. Otherwise you are going to miss something important.

3 Date of next group meeting

29 August 2013.