

Minutes of the Fifth Internal Meeting

Group 13

Wednesday 26th September 2012

Chair

Dawei Geng (a1219181)

Secretary

Yufeng Bai (a1600095)

Members

1. Nguyen Khoi (a1187070)
2. Yatong Zhou (a1204471)
3. Yunyao Yao (a1203525)
4. Shikai Li (a1214223)
5. Jun Chen (a1206265)
6. Yunyao Yao (a1203525)

Apologies

None

1 Time and Place

The Fifth meeting for the Software Engineering and Project was held in Ingkarni Wardli Building, Room 4.23 at 2:00pm on Wednesday 26th September 2012.

2 Quorum Announcement

The chairman announced that a quorum of the group was present, and that the meeting, having been duly convened, was ready to proceed with its topic.

3 Summary of Previous Meeting

1. Analysing the documents we have finished so far.
2. Analysing the program we have finished so far.
3. Demonstrating the function of the robot so far.
4. Set the further goal.

4 The Map Building

1. Write the java codes to build map in XML file, includes five java files: Map, Pixel, Test, XMLDocument and XMLReaderWriter. These files have already updated to SVN repository.
2. Write the java codes to build the Panel Board and the red dot, which are used to demonstrate the movement of the robot. The map of GUI is built by a lot of pixels(grids), when robot traverses one pixel, the pixel will be marked by another colour.

5 Path finding

1. Using Depth First Search to traverse all pixels in the map. The robot decides whether the robot finish the traverse or not according to the return value of the DFS.
2. Using Pathfinder function to find the path from the current position to next position.
3. Using findNearestUnexploredPixel function to find the nearest unexplored pixel when the 4 directions(east, west, north, south) of the current position have already explored.
4. Using Robot Scanner class to decide when and how the robot moves.

6 Adjournment

The next meeting is a group meeting and will be held in Ingkarni Wardli Building, Room 4.23 at 3:30pm on Week 9 2012.