**CS 744 – Management Issues in Software Engineering Project Meeting**

Project title: Developing a Tool to Visualize Multi-Agent Patrolling

Group name/number: GIANTS

Meeting #:5

Held on: 2/17, 2017 at 3:30 P.M.

Location: The first floor of Murphy Library

Members of the group: Dezheng Wang, Weikang Wang and Ying Jiang

Members attended: all

Topic(s) for discussion: Integration of GUI and algorithm

Report writer: Ying Jiang

All members came on time and the meeting started on time.

At first, everyone in this team talked about what he/she had done. Dezheng suggested that we use the database we already designed. Ying disagree. Ying defended that the relationship of tables in database are too complicated and suggested only the information of each run should be stored in database. Dezheng argued that the user should be able to restore everything of each run. Weikang thought store the information of each run is enough and don’t have to story everything of each run. Finally, we all agreed what should be stored in database. Dezheng asked what do we need to do in server side. Ying said what we need are two parts, one is storing details of each run, another is retrieving data from database by key word. “How about the connection of front-end and back-end. What kind of data will be send to server” Ying said data can be send through ajax from front-end to back-end. The data is either an object or json.

Then Ying started demonstrating the algorithm to Weikang. After Ying show the result of running the algorithm, Weikang said that he wanted the result which printed in the console. And Ying changed the algorithm. Here is the problem. The changed code didn’t go the way we want. The information print to the console is correct. But when the console information is stored in a data structure and return the result, the return result is wrong. Array.push() makes all elements the same when pushing an object. Now the code didn’t work. Ying and Weikang were trying to find out what had happened. Ying found that every time push an array to another array, a new array should copy the value and be pushed. The code didn’t work because the same array was pushed all the time. Solved this problem, another problem come out. Ying found that the result return by the algorithm is not what the front-end needs. It may cause some problem when showing the process of moving. Finally, Ying suggested to return the path of each agent so that front-end can move agent step by step. Weikang agreed. Ying gave the interface and the format return result to Weikang.

At the end of the meeting, Dezheng talked about what we should do in the next meeting. He suggested we should determining the data format so that we can pass the data from front-end to back-end. He also suggested that we should integrate algorithm and graphic view in the next sprint.

Next meeting and its agenda:

The next meeting will focus on integrating block view and algorithm, integration testing, also discuss the detail of developing the back-end. The meeting is planned to be on Feb 24, 2017 at 3:30P.M. in Murphy Library