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

Group name/number: FALCONS  
Meeting #: 7  
Held on: FEB 28, 2017 at 3:50 P.M.

Location: Wing Tech classroom  
Members of the group: Chaohui Xu, Yifan Gu, Sheng Zhang  
Topic(s) for discussion:   
Report writer: Yifan Gu

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

Firstly, we discussed the feedback from presentation. For the important feedback for test case “retrieve a history run using its unique ID” from professor. Professor suggested that we should make the input meaningful, the meaningless input like “1488592090300” should be changed. Sheng asked that do we have a good solution for this problem. Yifan said we can use start time and end time to filter the history. Chaohui agree with that and added that we also can add a “description” as the “Inputs” to retrieve the history of a particular run. It’s easy to use for users. And Sheng agree with them. And Chaohui said he will add those two retrieve methods in DB codes.

Next, the team talked about what have been done and what have been improved since last meeting. The algorithm part, which is developed by Sheng, has been improved to implement the functionalities which are written in requirements. However, some problems still exist and Sheng is finding some better ways to fixed them. Sheng has not debug for the new implementation because the change in algorithm part also need some corresponding change in GUI part. Yifan said that these changes in GUI part have just been finished today morning, then Sheng said he would going to debug them.

Yifan mainly fixed some bugs these days. He added verification code for every user inputs and optimized some logic in the code. He was in process of showing details of nodes in graph view.

Chaohui has also set up the database in virtual machine and is working on writing the code of accessing the database.

Next, the team talk about some details of implementation and the planning before next demo. According to the suggestion of professor, the team decide to add a “description” field in every history runs. Because the description can let user identify each run, otherwise, the history runs would be in a mass and the user cannot distinguish them. Chaohui emphasized that the user can search runs not only by data but also by description. Sheng and Yifan agrees. Yifan asked that would it be better to add “tag” field. Sheng and Chaohui thought it is enough to add the description to help user identify runs, adding “tag” will also add a little more complexity of using this application. Yifan agrees. After that, the team talked about the structure of database. Chaohui asked that if the run information stored in database need to be plain string. Sheng said we can store the JSON consists of the coordinates of the environment and regions, the agents in each region and the whole traces of each agent. Yifan agrees and continued to say that having this, we can show all information the user wants in each run.

Next meeting and its agenda:

The next meeting was planned to be on MAR 7, 2017 at 3:50 PM in Wing Tech classroom. The meeting will focus on the acceptance of whole work.