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| --- | --- | --- | --- | --- | --- | --- | --- |
| S.No. | As a <<type of user>> | I want <<some goal>> | so that <<reason>> | Date introduced | Date considered for implementation | Developer responsible for | Current Status |
| 1 | Viewer | Draw the whole block | The environment of the run can be set up. | Jan 26, 2017 | Feb 5, 2017 | Yifan Gu  Sheng Zhang | Completed |
| 2 | Viewer | Draw open spaces | The environment of the run can be set up. | Jan 26, 2017 | Feb 5, 2017 | Yifan Gu  Sheng Zhang | Completed |
| 3 | Viewer | Set agents | The initial position of each agent can be set up. | Jan 26, 2017 | Feb 7, 2017 | Yifan Gu | Completed |
| 4 | Viewer | Load environment file | The environment of the run can be set up. | Jan 31, 2017 | Feb 14, 2017 | Sheng Zhang,  Yifan Gu | Completed |
| 5 | Viewer | Select to see a Graphical View | Viewer can see the number of agents at each node in an open space | Jan 29, 2017 | Feb 14, 2017 | Chaohui Xu | Completed |
| 6 | Viewer | View the details about the agents in each node in Graphical View | Viewer can know that for a particular node, which agents have visited it and how many times each agent has visited it | Jan 26, 2017 | Mar 3,2017 | Chaohui Xu | Completed |
| 7 | Viewer | Execute the algorithm step by step or for a fixed number of steps | Viewer can watch the steps of patrolling | Jan 26, 2017 | Feb 14, 2017 | Sheng Zhang | Completed |
| 8 | Viewer | View the trace of an agent when running algorithm | Viewer can analyze the movement of the agent | Jan 29, 2017 | Feb 17, 2017 | Sheng Zhang, Yifan Gu | Completed |
| 9 | Viewer | Save a run of the algorithm | Viewer can view it later | Jan 26, 2017 | Mar 2,2017 | Chaohui Xu,  Sheng Zhang | Completed |
| 10 | Viewer | View all historical runs of the algorithm | Viewer can view any run and analyze | Jan 29, 2017 | Mar 10,2017 | Chaohui Xu, Yifan | Completed |
| 11 | Viewer | Filter historical runs of the algorithm | Viewer can easily find the run he/she want | Jan 29, 2017 | Mar 10,2017 | Chaohui Xu, Yifan | Completed |
| 12 | Viewer | Choose an algorithm | Viewer can choose any one of the three algorithms to be executed | Mar 20,2017 | Mar 31,2017 | Yifan Gu | Completed |
| 13 | Viewer | View the target list in Graph view | Viewer can see the current target of each agent | Mar 20,2017 | Apr 5,2017 | Chaohui Xu | Completed |