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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 | User | Initialize size of  environment | User can choose size of environment by themselves | Jan 27, 2017 | Jan 29,2017 | Weikang Wang | Completed |
| 1.1 | User | Choose the width of the environment | User can choose the width of the environment | Jan 27, 2017 | Jan 29,2017 | Weikang Wang | Completed |
| 1.2 | User | Choose the length of the environment | User can choose the length of the environment | Jan 27, 2017 | Jan 29,2017 | Weikang Wang | Completed |
| 2 | User | Change the type of cells | User can switch between open spaces and blocks | Jan 27, 2017 | Jan 29,2017 | Weikang Wang | Completed |
| 2.1 | User | Switch from open space to block | User can switch from open space to block | Jan 27, 2017 | Jan 29,2017 | Weikang Wang | Completed |
| 2.2 | User | Switch from block to open space | User can switch from block to open space | Jan 27, 2017 | Jan 29,2017 | Weikang Wang | Completed |
| 3 | User | Set up agent positions | User can choose start positions of agents in open spaces | Jan 27, 2017 | Jan 29,2017 | Weikang Wang | Completed |
| 4 | User | Click “create ” button to create block view | User can create block view after clicking that button | Jan 27, 2017 | Jan 29,2017 | Weikang Wang | Completed |
| 5 | User | Load environment files | User can use files to load initial environment | Jan 27, 2017 | March 4, 2017 | Ying Jiang | Completed |
| 6 | User | Switch between block view and graphical view | User can switch between block view and graphical view | Jan 27, 2017 | Feb 12, 2017 | Dezheng Wang | Completed |
| 6.1 | User | View block view | User can switch from graphical view to block view | Jan 27, 2017 | Feb 16, 2017 | Dezheng Wang | Completed |
| 6.2 | User | View graphical view | User can switch from block view to graphical view | Jan 27, 2017 | Feb 17, 2017 | Dezheng Wang | Completed |
| 7 | User | View graphical view of each region | User can view run time information of each region | Jan 27, 2017 | March 4, 2017 | Dezheng Wang | Completed |
| 8 | User | View details of agents in each node in graphical view | User can see each agent’s information | Jan 27, 2017 | March 4, 2017 | Dezheng Wang | Completed |
| 9 | User | Move agents by one step or fixed numbers of steps | User can move agents by their needs | Jan 27, 2017 | Feb 17, 2017 | Ying Jiang | Completed |
| 9.1 | User | Move the agents by one step | User can execute the algorithm step by step | Jan 27, 2017 | Feb 14, 2017 | Ying Jiang | Completed |
| 9.2 | User | Move the agents by fixed numbers of steps | User can execute the algorithm step by fixed number of steps | Jan 27, 2017 | Feb 14, 2017 | Ying Jiang | Completed |
| 10 | User | Save run time information of a run as a file | User can view it at any time | Jan 27, 2017 | March 4, 2017 | Ying Jiang | Completed |
| 11 | User | Save run information in database | User can use database to store run information | March 13, 2017 | March 14, 2017 | Dezheng Wang | Completed |
| 12 | User | Search run information based on one or more of the following information: date, time, size of the environment, number of regions, and number of steps for completion | User can search run information in database based those information | March 13, 2017 | March 14, 2017 | Dezheng Wang | Completed |
| 13 | User | Choose Constrained-3 algorithm to run | User can choose Constrained-3 algorithm to run | March 13, 2017 | March 14, 2017 | Ying Jiang | Completed |
| 14 | User | Choose Constrained-4 algorithm to run | User can choose Constrained-4 algorithm to run | March 13, 2017 | March 23, 2017 | Ying Jiang | Completed |
| 15 | User | View the target list and target of each agent in graph view | User can view details of each region | March 23, 2017 | March 23, 2017 | Dezheng Wang | Completed |