**Test cases**

Consider the sprint task #31 – Develop DB access code for retrieving the old runs which can search an old run based on one or more of the following information: date, time, size of the environment, number of regions, and number of steps for completion

Some of the test cases for this task are as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| Test case #sprint 4 | Scenario | Input(s) | Expected output |
| 1 | User select date as the search condition | Start date and end date with start date is the time before the end date | Shows a list of history runs that meet the restriction |
| 2 | User select date as the search condition | Start date and end date with start date after the end date | Prompt the start date should before the end date |
| 3 | User select time as the search condition | Start time and end time with start time before the end time | Shows a list of history runs that meet the restriction |
| 4 | User select time as the search condition | Start time and end time with start time after the end time | Prompt the start time should be before the end time |
| 5 | User select the size of environment as the search condition | The width and length of the environment | Shows a list of history runs that meet the restriction |
| 6 | User select the number of regions as the search condition | The number of regions | Shows a list of history runs that meet the restriction |
| 7 | User select the number of steps for completion as the search condition | The number of steps for completion | Shows a list of history runs that meet the restriction |
| 8 | User select multiple options as the search condition | Multiple corresponding parameters | Shows a list of history runs that meet all the restrictions |

Consider the sprint task #32 – Develop GUI to support selecting the parameters like date, time, size of the environment, number of regions, and number of steps for completion

Some of the test cases for this task are as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| Test case #sprint 4 | Scenario | Input(s) | Expected output |
| 1 | User select the date | User choose the date option from the parameter option list | The GUI display the date input part |
| 2 | User select the time | User choose the time option from the parameter option list | The GUI display the time input part |
| 3 | User select the size of environment | User choose the size of environment option from the parameter option list | The GUI display the size input part |
| 4 | User select the number of regions | User choose the number of regions option from the parameter option list | The GUI display the number of regions input part |
| 5 | User select the number of steps for completion | User choose the number of steps for completion option from the parameter option list | The GUI display the number of steps for completion input part |
| 6 | User select more than one option | User choose more than one option from the parameter option list | The GUI display multiple corresponding input part |

Consider the sprint task #33 – Validating the format and legitimacy of inputting file

Some of the test cases for this task are as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| Test case #sprint 4 | Scenario | Input(s) | Expected output |
| 1 | User upload the environment configuration file | Configuration file with correct format | Execute correctly |
| 2 | User upload the environment configuration file | Configuration file with incorrect format | Prompt file format error |