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Testing

This page outlines the different types of testing conducting to verify the user stories implemented.

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Since, the first sprint consisted of user stories focused on changing the user interface, we decided to only focus on User Acceptance Testing. It was conducted by the clients to ensure that the implementations meet their requirements.

Acceptance Testing

The document displays a table outlining the user acceptance tests conducted for the user stories implemented so far. Each user story has an acceptance criteria which was collected from the clients/users and during the tests, the expected outcome was noted. If the expected outcome satisfies all the criteria, the test is a pass else it is a fail.

Version 1.0

| Story ID | Tag | Acceptance Criteria | Expected Outcome | Pass /Fail |
|----------|---------------------------------------|--|--|------------|
| 01 | US_01_ADD_MOD ES | <ul style="list-style-type: none"> Student users should be able to view Insert and Search as modes for the Binary Search Tree algorithm to differentiate between the two functionalities. | <ul style="list-style-type: none"> Labels in the instructions can be viewed as "Insert Mode" and "Search Mode". Instructions containing steps to be followed for each mode can be viewed. | PASS |
| 02 | US_02_LABEL_SP EED_SLIDER | <ul style="list-style-type: none"> Student users should be able to view a label named "Speed" next to the speed slider to be able to understand its functionality. | <ul style="list-style-type: none"> A label "SPEED" can be viewed on the left of the slider. | PASS |
| 03 | US_03_ADD_PRO GRESS_BAR | <ul style="list-style-type: none"> Student users should be able to view the progress bar next to the play button. Student users should be able to view the progress of the algorithm in % after clicking the play button. The progress bar must return to 0% every time a new set of parameters are loaded by the user. | <ul style="list-style-type: none"> The progress bar is visible next to the play button. It loads the progress in % after the play button is clicked. The bar resets i.e. it returns to 0% after a new set of input parameters are inserted by the user. | PASS |
| 06 | US_06_CLOSE_N ESTED_BLOCKS | <ul style="list-style-type: none"> Student users should not need to collapse a nested block when the respective parent block is collapsed. The nested blocks must collapse automatically when the parent block is collapsed by the user. | <ul style="list-style-type: none"> The nested blocks collapse automatically when a parent block is collapsed. The user is expected to manually expand the nested blocks again. | PASS |
| 17 | US_17_CHANGE_ LABELS_FOR_VIE WS | <ul style="list-style-type: none"> Student users should be able to view the labels as "Array view" and "Tree view" for the Heapsort algorithm. | <ul style="list-style-type: none"> Tree view and Array view are visible for users to view when using the Heapsort algorithm | PASS |
| 18 | US_18_LABEL_G RAPH_SIZE | <ul style="list-style-type: none"> Student users should be able to clearly identify the buttons for increasing and decreasing the graph size and use them to edit the graph size. | <ul style="list-style-type: none"> The button to increase the graph size is labelled as "increase graph size". The button to decrease the graph size is labelled as "decrease graph size". | PASS |
| 19 | US_19_CHANGE_ LOAD_BUTTON | <ul style="list-style-type: none"> Student users should be able to locate which button can build the graph based on the matrix in control panel easily. | <ul style="list-style-type: none"> The button "LOAD" is renamed as "BUILD GRAPH" for easy identification. | PASS |
| 20 | US_20_ADD_RES ET_BUTTON | <ul style="list-style-type: none"> Student users should be able to update the graph if changes are made to the matrix. | <ul style="list-style-type: none"> If there exists a built graph, the "BUILD GRAPH" label is automatically renamed as "UPDATE". The "UPDATE" button can be used to load the graph with updated values in the matrix. | PASS |