

TEST COVERAGE REPORT

PP2 PROGRAMMING

CW02

(Train queue system)

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Since this course work has several methods or options to work (A, V, D, S, L, R, Q) I have included a number of test cases which checks all the above options as to if they are functioning properly. So to run this program I have to add necessary data to CW01 which is clearly mentioned in my test plan.

In order to check the option A is functioning properly I have booked all 42 seats from the CW1, so I can check if all the passengers are able to be sent to the queue from the waiting room and display an alert message indicating that the queue is Full if all 42 passengers fits in to the queue.

In option V, I have created 3 scenes (waiting room, train queue and train seats), after running option A with the given test data, I am able to check who are present in the waiting room, train queue and who are boarded into the train. I also delete passengers from the delete option and again enter the view option to check if the train queue GUI is updating properly, moreover when option R is entered which means that you have to remove all the passengers from the train queue, I check with the option V again to make sure that the train queue is empty and the passengers from the train queue are moved into the train seats.

In option D, I ask the user to enter the first name, surname and seat number of the passenger in the train queue to be deleted. I have included test data (validations) to check if the user enters a valid passenger in the train queue, if that passenger is not present I display a message indicating that the passenger is not found for the given details but if the passenger is found I display a message of the details of the passenger removed and the a message indicating the that the passenger is deleted successfully form the train queue. I have included validation checks to check if the user is enter valid characters for the required input and I display a message to the user if he/she has entered an invalid input and asks them to re enter the data.

In option R, I assign the processing time for the passengers and display a report as well as create a text file of the report, I have included test data to show that the report GUI and the text file gets updated when ever option R is entered.

I use option S at the end when the user needs to quit and I use option L only when the program starts.

I have included test cases to check for both the journeys (from colombo to badulla and from badulla to colombo) and I have added multiple validations test cases for various options such as alert box when queue is full, alert box when the queue is empty etc..