TEST SUITE

for

TRANSPORT COMPANY COMPUTERIZATION SOFTWARE

Version 1.0 approved

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TESTING

Black- Box Testing (BBT)

Black box testing is a software testing technique in which functionality of the software under test is tested without looking at the internal code structure, implementation details and knowledge of internal paths of the software.

The following sequence is followed for black-box testing of the software:
- ➢ Re-examination of requirements and specification of the software.
- ➢ Proper inputs are chosen and entered into the software.
- ➢ Expected outputs of those inputs are determined.
- ➢ Expected output and Actual output are compared.

BBT for user login as manager/employee

This testing is for the feature that allows the user to choose whether he/she wants to proceed as a manager or an employee or just exit the compilation.

Input	Expected Output	Actual Output
1	Program will ask for manager login details	Asks for login email and password for manager
2	Program will ask for employee login details	Asks for login email and password for employee
3	Exit the code	Compilation terminates
Anything Else	Error message	Invalid email or password message

BBT for login method (both Manager and Employee)

This testing is for the feature that shows the various options a manager/ an employee is allowed to do.

Input	Expected Output	Actual Output
Correct Email and password for manager	List of tasks that can be performed by the manager.	List of tasks that can be performed by the manager.
Correct Email and password for employee	List of tasks that can be performed by an employee	List of tasks that can be performed by an employee
Incorrect Email and/or password for Manager/employee	Error message stating invalid Email or password.	Error message stating invalid Email or password.

BBT for Manager's Tasks

This testing is for the various features available as a Manager.

After Login the manager is provided with a number of actions he can perform. All those are listed below:

1. BBT for adding Trucks

This feature allows the manager to add trucks to any Branch he wishes.

Input	Expected Output	Actual Output
A number is entered as Truck number	The program asks to enter the Branch and	The program asks to enter the Branch and

	displays the available ones	displays the available ones
A branch number is chosen from the available ones	Displays a 'Truck added Successfully' message	Displays a 'Truck added Successfully' message
A wrong branch number is entered	Displays error message stating invalid input	Displays error message stating invalid input

2. BBT for adding a new branch

This feature allows the manager to add a new branch to the system along with the existing ones.

The system asks for a branch id, address and phone number corresponding to that branch.

Input	Expected Output	Actual output
Branch id, phone number and address for that branch are entered	Message showing 'Branch added successfully'.	Message showing 'Branch added successfully'.

3. BBT for Adding Employee

This feature allows the manager to add an employee. It asks for the Name, Id, Address, Mobile Number, Email, Password and branch for the employee.

Input	Expected Output	Actual Output

Inputs for the Name, Id, Address, Mobile Number, Email and password of the employee	Asks to enter a branch and displays the available ones	Asks to enter a branch and displays the available ones
A branch is chosen from the available ones	Displays a message saying 'Employee added successfully'	Displays a message saying 'Employee added successfully'
A wrong branch number is entered	Displays error message stating invalid input	Displays error message stating invalid input

4. BBT for viewing Branch information

This feature allows the manager to view details of all the branches.

Input	Expected Output	Actual Output
Choosing the option to view all branches from the manager task menu	Displays branch Id, phone number, no. of trucks and employees, volume handled and average idle waiting time associated with each branch.	Displays branch Id, phone number, no. of trucks and employees, volume handled and average idle waiting time associated with each branch.

5. BBT for viewing truck information

This feature allows the manager to view details of all the trucks.

Input	Expected Output	Actual Output
Choosing the option to view truck details from the	Displays Truck no., number of consignments, current branch, it's	Displays Truck no., number of consignments, current branch, it's

manager task menu	status and current loaded volume.	status and current loaded volume.

6. BBT for Viewing Employee Information

This feature allows the manager to view details of all employees.

Input	Expected Output	Actual Output
Choosing the option to view employee details from the manager task menu	Displays the Id, name, address, mobile number, address, Email, branch and password of all employees	Displays the Id, name, address, mobile number, address, Email, branch and password of all employees

7. BBT for Removing Employee

This feature allows the manager to remove an existing employee.

Input	Expected Output	Actual Output
An employee id from the existing list of employees is entered.	Message showing 'Employee Removed Successfully'.	Message showing 'Employee Removed Successfully'.
A number is that doesn't correspond to any available employee id	No prompt, the employee list remains unchanged	No prompt, the employee list remains unchanged

8. BBT for Adding Consignments

This feature allows the manager to add consignments by entering the sender and receiver address associated with the consignment, its volume, its ID and the destination branch.

Input	Expected Output	Actual Output
The proper details as asked by the program	Price of the consignment and allotment of trucks based on their availability.	Price of the consignment and the program force terminates

This feature was unable to run as desired during our testing procedure, we are trying to work on fixes.

9. BBT for Viewing Head Office Consignments

This feature allows the manager to view all the head office consignments.

Input	Expected Output	Actual Output
Choosing the option to view Head Office Consignments details from the manager task menu	Displays all the details of the Head Office Consignments	Could not test the output due to problems in adding consignment during testing time.

10.   BBT for Viewing All Consignments

This feature allows the manager to view all the consignments from all branches.

Input	Expected Output	Actual output
Choosing the option to view All Consignments details from the manager task menu	Displays all the details of all the consignments	Displaying the details but truck allocation is missing

11.   Exit

Returns the terminal to main menu where we can choose manager/employee login.

BBT for Employee's Tasks

This testing is for the various features available as an Employee.

After Login the employee is provided with a number of actions that he can perform. All those are listed below:

1. BBT for Adding Consignments

This feature allows the employee to add consignments by entering the sender and receiver address associated with the consignment, its volume, its ID and the destination branch.

Input	Expected Output	Actual output
The proper details as asked by the program	Price of the consignment and allotment of trucks based on their availability.	Price of consignment and other details, but the truck allotment is not showing.

2. BBT to view consignments

This feature allows the employee to view all the consignments that he has sent.

Input	Expected Output	Actual output
Choosing the option to view All Consignments details from the employee task menu	Displays all the details of all the consignments	Displaying the details but truck allocation is missing

3. Exit

   Returns the terminal to main menu where we can choose manager/employee login.