**NCT Management System - Test Plan**

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**Test Strategy**

For the majority of testing for this project i will be using both black and white box testing along with unit testing, since this is a standalone application with a listed functionalities doing black box testing helps me visualize the problem and solve it faster.

**Test Scenarios/Case**

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| --- | --- | --- | --- |
| Number | Test Scenario | Action | Pass Criteria |
| 1 | Login | Incorrect Login Details | Display appropriate Error Message |
| 2 | Login | Correct Login Details | Validates User Properly |
| 3 | Login | Check Employee Type | Employee must be send to the appropriate activity class |
| 4 | Create Appointment | Click Create Appointment Button | Send to Create Appointment Activity |
| 5 | Create Appointment | Check for Empty Fields | Display appropriate Error Message |
| 6 | Create Appointment | Check Appointment Date and time already exists | If it exists already then display error appropriate message, if not proceed to the next activity |
| 7 | Create Appointment | Check For Vehicle Plate Number | If it already exists then display appropriate error message if not then complete Create Appointment |
| 8 | View Appointment | Display all appointment | Appointment must be listing all appointments created |
| 9 | View Appointment | Check Search Appointment | Search bar must be functioning well |
| 10 | View Appointment | Remove Button | Must delete the chosen appointment. |
| 11 | View Appointment | Edit Button | Must go to the Edit Appointment Function |
| 12 | Edit Appointment | Display the past entered details | The old entries must be filled in already for it to be amended by the admin |
| 13 | Edit Appointment | Check Confirm button | Button must be functioning right and giving the right intent |
| 14 | View Users | Display User List | Display All Users properly |
| 15 | View Users | Add New User Button | Must go to the Create new user activity |
| 16 | Create New Users | Check Empty Fields | Display appropriate Error Message |
| 17 | Create New Users | Check Username | Make sure username doesn't already exists. |
| 18 | View Results | Display Tested Cars | Display tested cars properly |
| 19 | View Results | Check Search Box | Search Box must be functioning right in the view results |
| 20 | View Results | Click a car | Must display Results for that specific cars |
| 21 | View Results | Print Result Button | Print the results of the chosen cars. |
| 22 | Mechanic Panel | Check untested car list | Make sure all untested cars for the current date are listed. |
| 23 | Mechanic Panel | Click an untested car | Go to the testing activity for that car |
| 24 | Test Car | Display All Car Parts | Make sure all car parts are listed. |
| 25 | Test Part | Click Car Parts | Go to the insert car parts result activity |
| 26 | Insert Parts Result | Check Empty Fields | Display appropriate Error message |
| 27 | Insert Parts Result | Confirm Test Result | Add Result to database |
| 28 | Logout | Check logout button for both Mechanic and Employee | Make sure it logs the user out back to the login screen. |