**7.0 Testing**

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| **Test ID** | **Test Cases Description** | **Pre Condition** | **Test Steps** | **Output** | | **Result** |
| **Expected** | **Actual** |
| **Test Suite :** Testing of LCD  **Requirement ID :** RQ01.0 | | | | | | |
| TC 01.0.1.1 | To check the behaviour of LCD when contrast of LCD is connected with Ground | All connection to the LCD are proper | Point the contrast variable resistor to VCC | In the LCD all the character blocks will appear Lighter | All the character blocks in the LCD appears Darker | **Fail** |
| TC 01.0.2.1 | To check the upper limit of a single segment | All connection to the LCD are proper and LCD should be interfaced with Arduino | Send 100 characters to the LCD and fire Scroll right function | All the characters will be displayed in a single line | Some characters are written to the second line while some overlap each other | **Fail** |
| TC 01.0.2.2 | To check the upper limit of a single segment | All connection to the LCD are proper and LCD should be interfaced with Arduino | Send 50 characters to the LCD and fire Scroll right function | All the characters will be displayed in a single line | Some characters are written to the second line while some overlap each other | **Fail** |
| TC 01.0.2.3 | To check the upper limit of a single segment | All connection to the LCD are proper and LCD should be interfaced with Arduino | Send 40 characters to the LCD and fire Scroll right function | All the characters will be displayed in a single line | Some characters are written to the second line while some overlap each other | **Pass** |
| **Test Suite :** Testing of Zigbee Module  **Requirement ID :** RQ02.0 | | | | | | |
| TC 02.0.1.1 | Writing Personal Area Network id to Zigbee Nodes. | Both the Zigbee modules should be configured with X-CTU | Open the communication port in both the Zigbee and start typing in one of the X-CTU. | Message should be received on the other end | Error in connection | **Fail** |
| TC 02.0.1.2 | Writing Personal Area Network id to Zigbee Nodes. | Both the Zigbee modules should be configured with X-CTU | Open the communication port in both the Zigbee and start typing in one of the X-CTU. | Message should be received on the other end | Does as Expected | **Pass** |
| TC 02.0.1.3 | Handling of Interrupts | Server and Client Zigbee should be configured as well as connected with each other | Interrupts like Sync should be fired from one end of the Zigbee | All interrupts should be ignored except power loss interrupt | Does as Expected | **Pass** |
| TC 02.0.1.4 | Interchange Source and Destination | Both the Zigbee modules should be configured with X-CTU | Send Message via X-CTU | Connection error should occur | Communication is error free regardless of source and destination | **Fail** |
| TC 02.0.2.1 | Transmission of data | Both the Zigbee modules should be configured with X-CTU | Set Baud rate of both the Zigbee to 9600 and try sending around 500 characters at one go | Data should be received without data loss | Only 17 characters will be received, rest will be lost | **Fail** |
| TC 02.0.2.2 | Transmission of data | Both the Zigbee modules should be configured with X-CTU | Set Baud rate of both the Zigbee to 19200 and try sending around 250 characters at one go | Data should be received without data loss | Only 41 characters will be received, rest will be lost | **Fail** |
| TC 02.0.2.3 | Transmission of data | Both the Zigbee modules should be configured with X-CTU | Set Baud rate of both the Zigbee to 38400 and try sending around 250 characters at one go | Data should be received without data loss | Only 72 characters will be received, rest will be lost | **Fail** |
| TC 02.0.2.4 | Transmission of data | Both the Zigbee modules should be configured with X-CTU | Set Baud rate of both the Zigbee to 57600 and try sending around 250 characters at one go | Data should be received without data loss | Only 202 characters will be received, rest will be lost | **Fail** |
| TC 02.0.2.5 | Transmission of data | Both the Zigbee modules should be configured with X-CTU | Set Baud rate of both the Zigbee to 57600 and try sending around 250 characters at one go | Data should be received without data loss | Does as Expected | **Pass** |
| **Test Suite :** Testing of Login Module  **Requirement ID :** RQ04.0 | | | | | | |
| TC 04.0.1.1 | Login to Administrator | Correct Username And Password | Enter Username and Password | Administrator Window Should be Shown | Does as Expected | **Pass** |
| TC 04.0.1.2 | Login to Faculty | Correct Username And Password | Enter Username and Password | Faculty Window Should be Shown | Does as Expected | **Pass** |
| TC 04.0.1.3 | Login to Administrator / Faculty | Invalid Username And Password | Enter invalid Username and Password | Prevent Login | Does as Expected | **Pass** |
| TC 04.0.1.4 | Login to Faculty | No Entry in Database | Enter some Username and Password | Prevent Login | Does as Expected | **Pass** |
| TC 04.0.1.5 | Login to Administrator / Faculty | None | Press Enter Directly | Prevent Login | Does as Expected | **Pass** |
| TC 04.0.2.1 | To check whether Database is created. | Database should not exist. | Open My Documents and check for the WSD.mdf file | New file named WSD.mdf is created | File not available | **Fail** |
| TC 04.0.2.2 | To check whether Database is created. | Database should not exist. | Open My Documents and check for the WSD.mdf file | New file named WSD.mdf is created | Does as Expected | **Pass** |
| TC 04.0.3.1 | To Check if the required messages are sent to the serial port ( Com port) | WSD\_'Weekday' and WSD\_Announcement tables should exist | Modify the data in WSD\_’Weekday’ and WSD\_Announcement explicitly using SQLliteDataBrowser Software and then wait for the time at which the message is scheduled. | Message should be sent and received at the other Zigbee which will be displayed in X-CTU. | Serial port not open. | **Fail** |
| TC 04.0.3.2 | To Check if the required messages are sent to the serial port ( Com port) | WSD\_'Weekday' and WSD\_Announcement tables should exist | Modify the data in WSD\_Weekday and WSD\_Announcement explicitly using SQLliteDataBrowser Software and then wait for the time at which the message is scheduled. | Message should be sent and received at the other Zigbee which will be displayed in X-CTU. | Serial port not available | **Fail** |
| TC 04.0.3.3 | To Check if the required messages are sent to the serial port ( Com port) | WSD\_'Weekday' and WSD\_Announcement tables should exist | Modify the data in WSD\_Weekday and WSD\_Announcement explicitly using SQLliteDataBrowser Software and then wait for the time at which the message is scheduled. | Message should be sent and received at the other Zigbee which will be displayed in X-CTU. | Erroneous message received at X-CTU | **Fail** |
| TC 04.0.3.4 | To Check if the required messages are sent to the serial port ( Com port) | WSD\_'Weekday' and WSD\_Announcement tables should exist | Modify the data in WSD\_Weekday and WSD\_Announcement explicitly using SQLliteDataBrowser Software and then wait for the time at which the message is scheduled. | Message should be sent and received at the other Zigbee which will be displayed in X-CTU. | Incomplete 2nd segment received X-CTU | **Fail** |
| TC 04.0.3.5 | To Check if the required messages are sent to the serial port ( Com port) | WSD\_'Weekday' and WSD\_Announcement tables should exist | Divide the message into two part and resend and then wait for the time at which the message is scheduled. | Message should be sent and received at the other Zigbee which will be displayed in X-CTU. | Incomplete 2nd segment received X-CTU | **Fail** |
| TC 04.0.3.6 | To Check if the required messages are sent to the serial port ( Com port) | WSD\_'Weekday' and WSD\_Announcement tables should exist | Divide the message into two part, introduce delay between two messages and resend, then wait for the time at which the message is scheduled. | Message should be sent and received at the other Zigbee which will be displayed in X-CTU. | Incomplete 2nd segment received X-CTU | **Fail** |
| TC 04.0.3.7 | To Check if the required messages are sent to the serial port ( Com port) | WSD\_'Weekday' and WSD\_Announcement tables should exist | Divide the message into two parts, increase delay between two messages and resend, then wait for the time at which the message is scheduled. | Message should be sent and received at the other Zigbee which will be displayed in X-CTU. | Incomplete message received at X-CTU | **Fail** |
| TC 04.0.3.8 | To Check if the required messages are sent to the serial port ( Com port) | WSD\_'Weekday' and WSD\_Announcement tables should exist | Divide the message into two part, increase baud rate and resend, and then wait for the time at which the message is scheduled. | Message should be sent and received at the other Zigbee which will be displayed in X-CTU. | Does as Expected | **Pass** |
| TC 04.0.3.9 | To Check if the required messages are sent to the serial port ( Com port) | WSD\_'Weekday' and WSD\_Announcement tables should exist | Modify the data in WSD\_Weekday and WSD\_Announcement explicitly using SQLliteDataBrowser Software and then wait for the time at which the message is scheduled. | Message should be sent and received at the other Zigbee which will be displayed in X-CTU. | Does as Expected | **Pass** |
| **Test Suite :** Testing of Faculty Module  **Requirement ID :** RQ04.1 | | | | | | |
| TC 04.1.1.1 | To check content of Class\_listbox are loaded | Entries should be there in WSD\_Classroom table | Modify the data in WSD\_Classroom explicitly using SQLlite Databrowser Software and then check the class\_listbox items | Modified entry should be loaded automatically into the class\_listbox | Contents of the class\_listbox remain unchanged | **Fail** |
| TC 04.1.1.2 | To check content of Class\_listbox are loaded | Entries should be there in WSD\_Classroom table | Modify the data in WSD\_Classroom explicitly using SQLlite Databrowser Software, logout, religion and then check the class\_listbox items | Modified entry should be loaded automatically into the class\_listbox | Does as Expected | **Pass** |
| TC 04.1.2.1 | To check whether new record entry is made into WSD\_'Weekday' or not. | The WSD\_'Weekday' table must exist. | In the Faculty Form fill in the required Details and click the Save Changes button. | A new record should be added to the WSD\_'Weekday' table. | No entry into the Classroom column | **Fail** |
| TC 04.1.2.2 | To check whether new record entry is made into WSD\_'Weekday'. | The WSD\_'Weekday' table must exist. | In the Faculty Form fill in the required Details and click the Save Changes button. | A new record should be added to the WSD\_'Weekday' table. | Does as Expected | **Pass** |
| TC 04.1.3.1 | To check whether slot occupancy column is updated into WSD\_Devices. | The WSD\_Devices table must exist. | In the Faculty Form, check a particular device and then click Save Changes button. Now check the entry in the WSD\_Devices using SQLliteDatabaseBrowser | The Slot Occupancy column in WSD\_Devices table needs to be updated. | Does as Expected | **Pass** |
| TC 04.1.3.2 | To check the validity of the Entry in the Slot\_occupancy column of the WSD\_Devices table. | The WSD\_Devices table must exist. | In the Faculty Form, check a particular device and then click Save Changes button. Now check the entry in the WSD\_Devices using SQLliteDatabaseBrowser | The occupancy needs to be incremented. | Value in the Slot Occupancy exceeds the value in the Quantity | **Fail** |
| TC 04.1.3.3 | To check whether contents of the devices box are according to the availability of the devices. | The WSD\_Devices table must exist. | Update the value of the Slot Occupancy column in WSD\_Devices and then reload the Faculty Form. | The items in Devices\_checklistbox should be updated | Does as Expected | **Pass** |
| TC 04.1.4.1 | To check whether a new record entry is made in the WSD\_Request table | The WSD\_Request table must exist. | Enter time and topic and press Save Changes | A new record will be added to the WSD\_Request table. | Does as Expected | **Pass** |
| TC 04.1.4.2 | To check if the status of request is updated or not. | The WSD\_Request table as well as a record related to the classroom to be checked must exist. | In the WSD\_Request table update the request\_status column to 'Request Granted' using SQLliteDataBrowser and then reload the Faculty Form | The Request Status label should be updated to Green coloured 'Request Granted'. | Does as Expected | **Pass** |
| TC 04.1.4.3 | To check if the status of request is updated or not. | The WSD\_Request table as well as a record related to the classroom to be checked must exist. | In the WSD\_Request table update the request\_status column to 'Request Denied' using SQLliteDataBrowser and then reload the Faculty Form | The Request Status label should be updated to Red coloured 'Request Denied'. | Does as Expected | **Pass** |
| TC 04.1.5.1 | To check if content of the Suggestion box are written into the WSD\_Suggestions table. | The WSD\_Suggestions table must exist. | Enter some data into Suggestion\_textbox and then click Save Changes button | A new record will be added to the WSD\_Suggestions table. | Does as Expected | **Pass** |
| TC 04.1.6.1 | To Check the behaviour of change\_password link label | Class Change\_pass should exist | Click on change password link label | Change Password Dialog box should appears | Does as Expected | **Pass** |
| TC 04.1.6.2 | To Check the behaviour of logout link label |  | Click on Logout link label | Login Form should reappear | Does as Expected | **Pass** |
| **Test Suite :** Testing of Administrator Module  **Requirement ID :** RQ04.2 | | | | | | |
| TC 04.2.1.1 | To check if the contents of the announce\_classbox are loaded correctly | The WSD\_Classroom table must exist | In the WSD\_Classroom table update the Classroom column using SQLliteDataBrowser and then reload the Administrator Form | Changes should be reflected in announce\_classbox | Does as Expected | **Pass** |
| TC 04.2.1.2 | To check if the contents of the request\_list are loaded correctly | The WSD\_Request table must exist | In the WSD\_Request table enter a valid record using SQLliteDataBrowser and then reload the Administrator Form | Changes should be reflected in request\_list | Does as Expected | **Pass** |
| TC 04.2.1.3 | To check if the contents of the suggestion\_list are loaded correctly | The WSD\_Suggestions table must exist | In the WSD\_Suggestions table enter a valid record using SQLliteDataBrowser and then reload the Administrator Form | Changes should be reflected in suggestion\_list | Does as Expected | **Pass** |
| TC 04.2.2.1 | To check if the Announcement is sent to the serial port at desired time. | TheWSD\_Announcement table must exist. | Select an item from announce\_classbox, select 'now' from time\_box enter some message into announce\_message textbox and click save changes | The desired message should be printed instantly onto the x-CTU | Does as Expected | **Pass** |
| TC 04.2.2.2 | To check if the Announcement is sent to the serial port at desired time. | TheWSD\_Announcement table must exist. | Select an item from announce\_classbox, select 'after 5 min' from time\_box enter some message into announce\_message textbox and click save changes | The desired message should be printed onto the x-CTU after 5 minutes | Does as Expected | **Pass** |
| TC 04.2.3.1 | To check the behaviour of request\_list. | Valid record should exist in WSD\_Request with status='Not Updated'. | Double Click a particular cell in the request\_list | request\_time as well as request\_topic will be updated to a value related to the cell which was double clicked | Does as Expected | **Pass** |
| TC 04.2.3.2 | To check the behaviour of request\_list. | Valid record should exist in WSD\_Requests with status='Not Updated'. | Double Click a particular cell in the request\_list and after data related to the cell double clicked are displayed, Click on Grant. | Data in the status column of WSD\_Request table will be updated to 'Granted' | Does as Expected | **Pass** |
| TC 04.2.3.3 | To check the behaviour of request\_list. | Valid record should exist in WSD\_Requests with status='Not Updated'. | Double Click a particular cell in the request\_list and after data related to the cell double clicked are displayed, Click on Deny. | Data in the status column of WSD\_Request table will be updated to 'Denied' | Does as Expected | **Pass** |
| TC 04.2.4.1 | To Check the the behaviour of change\_password link label | Class Change\_pass should exist | Click on change password link label | Change Password Dialog box should appears | Does as Expected | **Pass** |
| TC 04.2.4.2 | To Check the behaviour of logout link label |  | Click on Logout link label | Login Form should reappear | Does as Expected | **Pass** |
| TC 04.2.5.1 | To check the behaviour of old\_pass textbox in Change Password Dialog box | Change Password dialog box should be open | Type valid password. | new\_pass and renew\_pass textboxes will be enabled | Nothing happens | **Fail** |
| TC 04.2.5.2 | To check the behaviour of old\_pass textbox in Change Password Dialog box | Change Password dialog box should be open | Type valid password. | new\_pass and renew\_pass textboxes will be enabled | Does as Expected | **Pass** |
| TC 04.2.5.3 | To check behaviour of pass\_tick | There should be some text in new\_pass textbox | After entering some text in the new\_pass textbox start typing in the renew\_pass textbox | A red cross mark should be shown until the text in the new\_pass as well as renew\_pass does not match. | Nothing is displayed | **Fail** |
| TC 04.2.5.4 | To check behaviour of pass\_tick | There should be some text in new\_pass textbox | After entering some text in the new\_pass textbox start typing in the renew\_pass textbox | A red cross mark should be shown until the text in the new\_pass as well as renew\_pass does not match. | Does as Expected | **Pass** |
| TC 04.2.5.5 | To check behaviour of pass\_tick | There should be some text in new\_pass textbox | After entering some text in the new\_pass textbox, type the same text into the renew\_pass textbox | A green tick mark should be shown. | Does as Expected | **Pass** |
| TC 04.2.5.6 | To check if the password is updated or not. | The text in new\_pass and renew\_pass textboxes should match | Click on Save changes. | Password field in the WSD\_Employee should be updated and the Change Password dialog box should close. | Change Password Dialog remains open | **Fail** |
| TC 04.2.5.7 | To check if the password is updated or not. | The text in new\_pass and renew\_pass textboxes should match | Click on Save changes. | Password field in the WSD\_Employee should be updated and the Change Password dialog box should close. | Does as Expected | **Pass** |
| TC 04.2.6.1 | To check the behaviour of 'Manage Classroom' on click | One should be logged in the Administrator | Click on Manage Classroom button | Opens Manage Classroom Diaglogbox | Does as Expected | **Pass** |
| TC 04.2.6.2 | To check the behaviour of 'Manage Devices' on click | One should be logged in the Administrator | Click on Manage Devices button | Opens Manage Devices Diaglogbox | Does as Expected | **Pass** |
| TC 04.2.6.3 | To check the behaviour of 'Add Employee' on click | One should be logged in the Administrator | Click on Add Employee button | Opens New Employee Diaglogbox | Does as Expected | **Pass** |
| TC 04.2.6.4 | To check the behaviour of 'Remove Employee' on click | One should be logged in the Administrator | Click on Remove Employee button | Opens Remove Employee Diaglogbox | Does as Expected | **Pass** |
| TC 04.2.7.1 | To check the contents of device\_list on loading of Manage Devices | One should be logged in the Administrator and should have clicked Manage Devices button in Administrator Window | First click Manage Devices button, and note down the contents on device\_list, then close the dialog and modify the data in WSD\_Devices and again click Manage Devices button. | Changes are reflected in the device\_list also | No change in device\_list on reload | **Fail** |
| TC 04.2.7.2 | To check the contents of device\_list on loading of Manage Devices | One should be logged in the Administrator and should have clicked Manage Devices button in Administrator Window | First click Manage Devices button, and note down the contents on device\_list, then close the dialog and modify the data in WSD\_Devices and again click Manage Devices button. | Changes are reflected in the device\_list also | Does as Expected | **Pass** |
| TC 04.2.7.3 | To check the behaviour of device\_list | Valid record should exist in WSD\_Devices | In Manage Devices Window double click a cell with content | Values related to the cell double clicked are updated in device\_name textbox and the quantity\_counter. Tick as well as cross buttons are enabled and Add Device is Disabled | Does as Expected | **Pass** |
| TC 04.2.7.4 | To check the contents of device\_list on updating | One should have double clicked a cell in the device\_list | Modify name and Quantity and then click tick | Device\_list will be updated automatically and tick and cross buttons are disabled. | device\_list remains unchanged | **Fail** |
| TC 04.2.7.5 | To check the contents of device\_list on updating | One should have double clicked a cell in the device\_list | Modify name and Quantity and then click tick | Device\_list will be updated automatically and tick and cross buttons are disabled. | Does as Expected | **Pass** |
| TC 04.2.7.6 | To check the behaviour of Add Device button on click | Add Devices should be enabled | Click on Add Device button | Add Device button is Disabled, and device\_name textbox, quantity\_counter , tick button and cross button are enabled | Does as Expected | **Pass** |
| TC 04.2.7.7 | To check the behaviour of tick button on click | Tick button needs to be enabled | Click on Tick button | If a cell was double clicked for enabling the tick button then, Database will be updated. If Add device was clicked for enabling the tick then, a new record will be written into WSD\_Devices | Updatation fails | **Fail** |
| TC 04.2.7.8 | To check the behaviour of tick button on click | Tick button needs to be enabled | Click on Tick button | If a cell was double clicked for enabling the tick button then, Database will be updated. If Add device was clicked for enabling the tick then, a new record will be written into WSD\_Devices | Does as Expected | **Pass** |
| TC 04.2.7.9 | To check the behaviour of Cross button on click | Cross button needs to be enabled | Click on Cross button | If a cell was double clicked for enabling the cross button then, the whole row will be deleted from the database. If Add device was clicked for enabling the cross then, again the Add Devices button will be enabled and there will be no changes in the database. | Does as Expected | **Pass** |
| TC 04.2.8.1 | To check the content of classroom\_list on loading of Manage Classrooms dialog | Valid data should be present in the WSD\_Classrooms table | First click Manage Classrooms button, and note down the contents on classroom\_list, then close the dialog and modify the data in WSD\_Classrooms and again click Manage Classroom button. | Changes are reflected in the classrooms\_list also | Does as Expected | **Pass** |
| TC 04.2.8.2 | To check the behaviour of classroom\_list | Valid record should exist in WSD\_Classroom | In Manage Classroom Window double click a cell with content | Values related to the cell double clicked are updated in classroom\_name textbox. Tick button and classroom\_name textbox are enabled | Does as Expected | **Pass** |
| TC 04.2.8.3 | To check the behaviour of Add button on click | WSD\_Classroom table should exist | In Manage Classroom Window click '+' button | class\_name textbox and tick button will be enabled | Does as Expected | **Pass** |
| TC 04.2.8.4 | To check the behaviour of Minus button on click | WSD\_Classroom table should exist | In Manage Classroom Window click '+' button | Values related to selected cell will be erased from the WSD\_Classroom table as well as from Device\_list | Does as Expected | **Pass** |
| TC 04.2.8.5 | To check the behaviour of Tick button on click | Tick button needs to be enabled | In Manage Classroom Window click tick button | If tick was enabled when cell was double clicked then the classroom name will be updated according to the value in class\_name textbox. And if tick was enabled by clicking '+' button then a new record will be written in the database as well as the device\_list | Does as Expected | **Pass** |
| TC 04.2.9.1 | To check the validity of fname textbox | New Employee dialog box needs to be open | Start typing some text including digits in fname textbox | Only alphabets needs to be accepted | All characters are accepted | **Fail** |
| TC 04.2.9.2 | To check the validity of fname textbox | New Employee dialog box needs to be open | Start typing some text including digits in fname textbox | Only alphabets needs to be accepted | Does as Expected | **Pass** |
| TC 04.2.9.3 | To check the validity of mname textbox | New Employee dialog box needs to be open | Start typing some text including digits in mname textbox | Only alphabets needs to be accepted | Does as Expected | **Pass** |
| TC 04.2.9.4 | To check the validity of lname textbox | New Employee dialog box needs to be open | Start typing some text including digits in lname textbox | Only alphabets needs to be accepted | Does as Expected | **Pass** |
| TC 04.2.9.5 | To check the validity of uname textbox | New Employee dialog box needs to be open | Start typing some text including digits in uname textbox | Any Characters can be accepted | Does as Expected | **Pass** |
| TC 04.2.9.6 | To check the validity of password textbox | New Employee dialog box needs to be open | Start typing some text including digits in password textbox | no characters should be visible and only black bullets should be displayed | Does as Expected | **Pass** |
| TC 04.2.9.7 | To check the validity of reEnter\_password textbox | New Employee dialog box needs to be open | Start typing some text including digits in reEnter\_password textbox | no characters should be visible and only black bullets should be displayed | Does as Expected | **Pass** |
| TC 04.2.9.8 | To check the status of pass tick | New Employee dialog box needs to be open | Start typing some text including digits in reEnter\_password textbox | Red Cross Should be displayed if the text in password and reEnter\_password textboxes do not match | Does as Expected | **Pass** |
| TC 04.2.9.9 | To check the status of pass tick | New Employee dialog box needs to be open | Start typing some text including digits in reEnter\_password textbox | Green Tick will be displayed if the text in password and reEnter\_password textboxes match | Does as Expected | **Pass** |
| TC 04.2.9.10 | To check the validity of mobile number | New Employee dialog box needs to be open | Start typing some text including digits in mobile textbox | Only ten digits should be accepted | Characters are also accepted | **Fail** |
| TC 04.2.9.11 | To check the validity of mobile number | New Employee dialog box needs to be open | Start typing some text including digits in mobile textbox | Only ten digits should be accepted | Does as Expected | **Pass** |
| TC 04.2.9.12 | To check the status of email\_tick | New Employee dialog box needs to be open | Start typing some text including digits in email textbox | Red Cross if email address is invalid | Does as Expected | **Pass** |
| TC 04.2.9.13 | To check the status of email\_tick | New Employee dialog box needs to be open | Enter valid email address in email textbox | Green Tick will be displayed if the text in email textbox is a valid email | Does as Expected | **Pass** |
| TC 04.2.9.14 | To check the effect of Selecting different items in Designation listbox | New Employee dialog box needs to be open | Select Technical Associate in the designation listbox | Division, Subject1, Subject2, Subject3, Subject4 and Subject5 textboxes should be enabled. | Does as Expected | **Pass** |
| TC 04.2.9.15 | To check the effect of Selecting different items in Designation listbox | New Employee dialog box needs to be open | Select any other item except Technical Associate in the designation list box | Division, Subject1, Subject2, Subject3, Subject4 and Subject5 textboxes are disabled. | Does as Expected | **Pass** |
| TC 04.2.9.16 | To check out the functionality of Save Changes button in New Employee window | New Employee dialog box needs to be open | Click on the Save Changes button | Message box displaying 'Fill up the Required Fields' will pop up | Does as Expected | **Pass** |
| TC 04.2.9.17 | To check out the functionality of Save Changes button in New Employee window | New Employee dialog box needs to be open | Fill up the required fields but keep the password mismatched and then click on the Save Changes button | Message box displaying 'Passwords Mismatch' will pop up | Does as Expected | **Pass** |
| TC 04.2.9.18 | To check out the functionality of Save Changes button in New Employee window | WSD\_Employee table should exist | Fill up the required fields correctly and then click on the Save Changes button | Message box displaying 'Details saved' will pop up and a new record entry will be made into WSD\_Employee | Does as Expected | **Pass** |
| TC 04.2.10.1 | Check if the contents of the employee\_list are loaded correctly | WSD\_Employee table should exist | First click Remove Employee button, and note down the contents on employee\_list, then close the dialog and modify the data in WSD\_Employee and again click Remove Employee button. | Changes are reflected in employee\_list also | Does as Expected | **Pass** |
| TC 04.2.10.2 | To check the behaviour of employee\_list | Valid record should exist in WSD\_Employee | In Remove Employee Window double click a cell with some content | Values related to the cell double clicked are updated in username, email and designation labels and Relieve Employee button is shown | Does as Expected | **Pass** |
| TC 04.2.10.3 | To check the behaviour of Relieve Employee button | Relieve Employee button needs to be visible | Click on Relieve Employee button | Employee record will be deleted from employee\_list as well as from the database | the deleted data is still visible in the employee\_list | **Fail** |
| TC 04.2.10.4 | To check the behaviour of Relieve Employee button | Relieve Employee button needs to be visible | Click on Relieve Employee button | Employee record will be deleted from employee list as well as from the database | Does as Expected | **Pass** |

Table 7.1 Test Cases