# Blackbox Testing

| Test Name | Test Description | Steps | Expected | Verified By | Date/Time | PASS/FAIL |
|---|---|---|---|---|---|---|
| Admin role UI | Log in with admin role | 1. Enter username = admin<br>2. Enter password = 1<br>3. Click login | 1. Login Dialog is closed<br>2. Main application window and all the tabs are shown.<br>3. Can grant admin access to other users under Employees. | Beau Lee | July 10th, 8:11PM | PASS |
| Receptionist role UI | Log in with receptionist role | 1. Enter username = receptionist<br>2. Enter password = 1<br>3. Click login | 1. Login Dialog is closed<br>2. All the fields under the "Appointment" and "Patients" tabs can be modified after the Add or Update buttons are pressed.<br>3. The tables under the "Appointments" and "Patients" tabs can be modified after the Add or Update buttons are pressed.<br>4. If any of the values on either the table or the form have been modified a pop-up window will be displayed, indicating the user should enter the proper values. | Beau Lee | July 10th, 8:29PM | PASS |
| Doctor role UI | Log in with doctor role | 1. Enters username = doctor<br>2. Enters password = 1<br>3. Click login | 1. Login Dialog is closed<br>2. Can make changes to the appointment table, but is required to press Update after the values are entered.<br>3. Once completed, values are shown on table. | Beau Lee | July 10th, 8:32PM | PASS |
| Technologist role UI | Log in with technologist role | 1. Enter username = technologist<br>2. Enter password = 1<br>3. Click login | 1. Login Dialog is closed<br>2. At the "Patients" tab, the technologist can modify the fields within the Patient's form. Afterwards, the technologist must press Update and the results will be displayed on the table.<br>3. The technologist can also make similar changes to the table and then press the Add or Update button as well, depending on how the changes are modified. | Beau Lee | July 10th, 8:35PM | PASS |
| Logout | Test logout button | 1. Enter username = admin<br>2. Enter password = 1<br>3. Click login<br>4. Click logout<br>5. Enter username = receptionist<br>6. Enter password = 1<br>7. Click login<br>8. Click logout | 1. Login Dialog is closed<br>2. Main window with all tabs is displayed<br>3. Main window application is hidden<br>4. Login Dialog is shown<br>5. Main window with Patient and Appointment tabs is displayed<br>6. Main window application is hidden<br>7. Login Dialog is shown | Hau Nguyen | July 10th, 10:30PM | PASS |
| Disable a user | Admin disable a user, so he/she cannot log in to the system | 1. Enter username = admin<br>2. Enter password = 1<br>3. Click login<br>4. Select a user that has username = doctor in the table<br>5. Check checkbox disable<br>6. Click Update<br>7. Log out<br>8. Enter username = doctor<br>9. Enter password = 1<br>10. Click login | 1. Cannot log in and receive an error message "The user is disable. Please contact admin for help!"<br>2. Login Dialog is not closed | Hau Nguyen | July 10th, 10:36PM | PASS |

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|-----------|------------------|-------|----------|-------------|-----------|-----------|
| Enable a disable user | Admin enable a disable user, so he/she can log in to the system | 1. Enter username = admin<br>2. Enter password = 1<br>3. Click login<br>4. Select a user that has username = doctor in the table<br>5. Uncheck checkbox disable<br>6. Click Update<br>7. Log out<br>8. Enter username = doctor<br>9. Enter password = 1<br>10. Click login | 1. Login Dialog is closed<br>2. Main window with all tabs is shown | Hau Nguyen | July 10th, 10:38PM | PASS |
| Login with unregistered email | Try to login with unregistered email | 1. Enter username = abcd<br>2. Enter password = 1<br>3. Click login | 1. Cannot log in and receive an error message "Email does not exist. Please try again!"<br>2. Login Dialog is not closed | Hau Nguyen | July 10th, 10:44PM | PASS |
| Login with wrong password | Try to login with wrong password | 1. Enter username = admin<br>2. Enter password = 2<br>3. Click login | 1. Cannot log in and receive an error message "Wrong password. Please try again!"<br>2. Login Dialog is not closed | Hau Nguyen | July 10th, 10:46PM | PASS |
| Close Login Dialog | Close Login Dialog | 1. Click x button on top right corner to close the Login Dialog | 1. The application is closed (The Main window is not displayed) | Hau Nguyen | July 10th, 10:46PM | PASS |
| View an employee | Admin click an employee in the employees table, then employee's info will be filled to the employee form | 1. Enter username = admin<br>2. Enter password = 1<br>3. Click login<br>4. Click employee 1<br>5. Click employee 10 | 1. Information of employee id = 1 is filled to the employee form<br>2. Information of employee id = 10 is filled to the employee form | Hau Nguyen | July 10th, 10:49PM | PASS |
| Add an employee | Admin login and add an new employee | 1. Enter username = admin<br>2. Enter password = 1<br>3. Click login<br>4. Fill new employee information to the form<br>5. Click Add | 1. New employee info is added to employee table<br>2. New employee id is updated in the Id textbox | Hau Nguyen | July 10th, 10:55PM | PASS |
| Add an employee with a registered email | Admin login and add an new employee with a registered email in the system | 1. Enter username = admin<br>2. Enter password = 1<br>3. Click login<br>4. Enter E-Mail = doctor<br>5. Fill the rest information to the form<br>6. Click Add | 1. Receive error message "Cannot create an employee. Please check email existence and try again!" | Hau Nguyen | July 10th, 11:00PM | PASS |
| Add an employee with empty form | Admin login and click add an button | 1. Enter username = admin<br>2. Enter password = 1<br>3. Click login<br>4. Click Add | 1. Receive error message "Email and Password cannot be empty. Please try again!" | Hau Nguyen | July 10th, 11:05PM | FAIL |
| Clear employee form | Admin login, click an employee in table to fill data to the employee form, then click clear form button | 1. Enter username = admin<br>2. Enter password = 1<br>3. Click login<br>4. Click an employee in the employee table<br>5. Click clear form button | 1. Employee form is reset to default state | Hau Nguyen | July 10th, 11:08PM | PASS |
| PatientTabGUI - Add | The "Add" function. | 1. The add button is pressed, results are displayed in the table.<br>2. Upon pressing the add button, an id is assigned to each entity.<br>3. Console confirms that the entry has been successfully added. | 1. If the fields are added incorrectly, a popup window will appear to let the user know that they need to fix their errors.<br>2 If successful, the values are added and displayed on the table. | Beau | July 11th, 1:58PM | PASS |

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|-----------|------------------|-------|----------|-------------|-----------|-----------|
| PatientTabGUI - Clear Form | The "Clear All" function. | 1. Click the "Clear All" button.<br>2. The values are cleared.<br>3. The user decides if they can add, update, or create a new patient. | 1. The user presses the "Clear All" button at any time.<br>2. All the values are cleared. 3. The results are displayed on the table. If any errors occur, a popup window will indicate the user to correct those errors. | Beau | July 11th, 2:17PM | PASS |
| PatientTabGUI - Update | The "Update" function. | 1. Select an entry on the table.<br>2. Modify any of the values within the form.<br>3. Press "Update", and the changes will be displayed on the table. | 1. After the Update button is pressed, errors are easy to idenfify if any fields are entered in incorrectly.<br>2. After an error is fixed, and everything is successful, the console lets the user know that an object has been successfully updated. | Beau | July 11th, 4:11PM | PASS |
| Create an appointment | Receptionist creates an appointment for a patient | 1. Logged in with receptionist role<br>2. Select Appointment tab<br>3. Fill appointment form<br>4. Click add | 1. A new appointment is added in appointment table<br>2. New appointment ID is updated in Appointment ID textbox<br>3. Current employee ID is updated in Receptionist ID textbox | Hau Nguyen | July 11th, 9:14PM | PASS |
| Create an appointment with empty form | Receptionist click add button with empty appointment form | 1. Logged in with receptionist role<br>2. Select Appointment tab<br>3. Click add | 1. A error message is displayed "Patient Id and Appointment Date cannot be blank. Please try again" | Hau Nguyen | July 11th, 9:20PM | PASS |
| Create an appointment with unregistered patient id | Receptionist click add a new appointment with unregistered patient id | 1. Logged in with receptionist role<br>2. Select Appointment tab<br>3. Fill appointment form (Patient Id = 99)<br>4. Click add | 1. A error message is displayed "Patient Id is invalid. Please try again" | Hau Nguyen | July 11th, 9:23PM | PASS |
| Create an appointment with a past date | Receptionist click add a new appointment and select an a past date as appointment date | 1. Logged in with receptionist role<br>2. Select Appointment tab<br>3. Fill appointment form (Appointment Date = )<br>4. Click add | 1. A error message is displayed "Cannot create an appointment in the past. Please try again" | Hau Nguyen | July 11th, 9:23PM | FAIL |
| Update an appointment | Receptionist update info of an appointment | 1. Logged in with receptionist role<br>2. Select Appointment tab<br>3. Click an appointment in appointment table<br>4. Edit info of the appointment in the appointment form<br>5. Click update | 1. The appointment info is updated in the appointment table | Hau Nguyen | July 11th, 9:40PM | PASS |