1. **<Guest> Login**

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| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| WA01 | Login with valid nurse’s username and password | 1. Go to login page 2. Input username “nurse” and password “nurse” 3. Press “Login” button | Show target page “Register exam” |  | Pass | From 30/9/15 to 15/10/15  (20 times) |
| WA02 | Login with valid doctor’s username and password | 1. Go to login page 2. Input username “doctor1” and password “doctor1” 3. Press “Login” button | Show target page “Patient list” |  | Pass | From 30/9/15 to 15/10/15  (20 times) |
| WA03 | Login with inactive account’s username and password | 1. Go to login page 2. Input username “doctor2” and password “doctor2” 3. Press “Login” button | Show target page “Change password” |  | Pass | From 30/9/15 to 15/10/15  (20 times) |
| WA04 | Login with valid patient’s username and password | 1. Go to login page 2. Input valid username “quantd” and password “AuWzTj” 3. Press “Login” button | Show pop-up “Invalid username or password” |  | Pass | From 30/9/15 to 15/10/15  (20 times) |
| WA05 | Login with invalid username and password | 1. Go to login page 2. Input username “nurse” and password “nurse2” 3. Press “Login” button | Show pop-up “Invalid username or password” |  | Pass | From 30/9/15 to 15/10/15  (20 times) |
| WA06 | Login with blocked account’s username and password | 1. Go to login page 2. Input username “doctor3” and password “doctor3” 3. Press “Login” button | Show pop-up “Invalid username or password” |  | Pass | From 30/9/15 to 15/10/15  (20 times) |

1. **<Authorized user> Logout**

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| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| WA07 | Normal logout | 1. Login web application successfully. 2. Press “Logout” button at the corner. | Show “Login” page |  | Pass | From 30/9/15 to 15/10/15  (20 times) |
| WA08 | Log out after session timed out 1 | 1. Login web application successfully. 2. Don’t interactive with application in 30 minutes. 3. After 30 minutes, try to reload current page. | Show “Login” page |  | Pass | From 30/9/15 to 15/10/15  (20 times) |
| WA09 | Log out after session timed out 2 | 1. Login web application successfully. 2. Un-deploy web application then re-deploy it. 3. Try to reload current page. | Show “Login” page |  | Pass | From 30/9/15 to 15/10/15  (20 times) |
| WA10 | Log out after session timed out 3 | 1. Login web application successfully. 2. Current server time is 7:00, change it to 8:00. 3. Try to reload current page. | Show “Login” page |  | Pass | From 30/9/15 to 15/10/15  (20 times) |

1. **<Nurse> Register exam**

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| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| RE01 | Register exam with valid input information | 1. Login with role “Nurse” successfully. 2. Input valid information:  * Patient name: Trần Đăng Quân. * Birthday: 14/12/1993 * Email: [quantdse60878@fpt.edu.vn](mailto:quantdse60878@fpt.edu.vn) * Male check: yes. * Weight: 60. * Height: 160. * Heartbeat: 90. * Blood pressure: 100. * Waits: 70. * Body fat: 20%. * Visceral fat: 2. * Muscle mass: 20%. * Body water: 70%. * Phase angle: 7 o. * Impedance: 530 Ohm. * Basal Metabolic rate: 2000 kcal. * Doctor: choose “Doctor Huỳnh Văn Dưỡng”. * Medical history: N/A. * Clinical symptoms: Mệt mỏi, biếng ăn. * Medicine history: N/A.  1. Press “Register” button. | 1. Show medical order number with patient information. 2. Doctor see “Trần Đăng Quân” in list of awaiting patient. |  | Pass | From 1/10/15 to 15/11/15  (50 times) |
| RE02 | Register exam with invalid input information | 1. Login with role “Nurse” successfully. 2. Input valid information:  * Patient name: Trần Đăng Quân. * Birthday: 14/12/1993 * Email: [quantdse60878@fpt.edu.vn](mailto:quantdse60878@fpt.edu.vn) * Male check: yes. * Weight: 60. * Height: 160. * Heartbeat: 150. * Blood pressure: 100. * Waits: 70. * Body fat: 20%. * Visceral fat: 2. * Muscle mass: 20%. * Body water: 70%. * Phase angle: 7 o. * Impedance: 530 Ohm. * Basal Metabolic rate: 2000 kcal. * Doctor: choose “Doctor Huỳnh Văn Dưỡng”. * Medical history: N/A. * Clinical symptoms: Mệt mỏi, biếng ăn. * Medicine history: N/A.  1. Press “Register” button. | 1. Web application notice that field Email is invalid: **“This email is already use”.** 2. Web application notice that field Heartbeat is invalid: **“Invalid heart beat out of range, please fix”** |  | Pass | From 1/10/15 to 15/11/15  (50 times) |
| RE03 | Register exam with old patient. | 1. Login with role “Nurse” successfully. 2. Input field Patient name with value “Trần Đăng Quân” 3. Choose an option from available result. 4. Press “This is old patient” in pop-up. | 1. Show register exam page. Basic patient information is filled. 2. When nurse press “Register” button, system does not create new patient record. |  | Pass | From 1/10/15 to 15/11/15  (50 times) |
| RE04 | Register exam with old patient, use old measurement indexes. | 1. Login with role “Nurse” successfully. 2. Input field Patient name with value “Trần Đăng Quân” 3. Choose an option from available result. 4. Press “This is old patient” in pop-up. 5. In register patient page with basic information is filled, press button “Use old measurement index”. | 1. Show register patient page. Basic patient information and all old measurement indexes, symptoms (if have) are filled. 2. When nurse press “Register” button, system does not create new patient record. |  | Pass | From 1/10/15 to 15/11/15  (50 times) |
| RE05 | Register exam with old patient, use old measurement indexes, re-input invalid value. | 1. Login with role “Nurse” successfully. 2. Input field Patient name with value “Trần Đăng Quân” 3. Choose an option from available result. 4. Press “This is old patient” in pop-up. 5. In register patient page with basic information is filled, press button “Use old measurement index”. 6. Change Height value to 500 Kg. | Web application notice that field Height is invalid: **“Invalid height out of range, please fix”** |  | Pass | From 1/10/15 to 15/11/15  (50 times) |

**4. <Nurse> Print prescription**

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| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| PE01 | Print prescription successfully. | 1. Login successfully with role “Nurse”, register exam for patient “Trần Đăng Quân” successfully. 2. Login successfully with role “Doctor”, make prescription for a patient. 3. Login back with role “Nurse”, press link **Patients.** 4. In list of available patient, press button “Print prescription” for patient “Trần Đăng Quân”. | Display PDF document with full information about medicines and advice. | RE01 | Pass | From 1/10/15 to 15/11/15  (20 times) |
| CR02 | Print prescription successfully. | 1. Login successfully with role “Nurse”, register exam for new patient “Phan Nhật Anh” successfully. 2. In list of available patient, press button “Print prescription” for patient “Phan Nhật Anh”. | Display pop-up with message “No available prescription for current patient”. | RE01 | Pass | From 1/10/15 to 15/11/15  (20 times) |

1. **<Doctor Manager> Create regimen**

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| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| CR01 | Create regimen with valid information. | 1. Login successfully with role “Doctor Manager” 2. In Regimens view, press “Create new regimen” button. 3. Input field:  * Illness name: “FAT 1”. * Illness description: “Béo phì cấp độ 1”. * Number of phase: 5.  1. Press “Create” button. | Display new regimen for illness FAT 1 at Regimen view. |  | Pass | From 15/11/15 to 7/12/15  (15 times) |
| CR02 | Create regimen with valid information. | 1. Login successfully with role “Doctor Manager” 2. In Regimens view, press “Create new regimen” button. 3. Input field:  * Illness name: “FAT 1”. * Illness description: “Béo phì cấp độ 1”. * Number of phase: 21.  1. Press “Create” button. | 1. Web application notice that field Number of phase is invalid: **“Please enter a value less than or equal to 20”.** 2. Web application notice that field Illness name is invalid: **“Illness with name FAT 1 is existence, please fix”.** |  | Pass | From 15/11/15 to 7/12/15  (15 times) |

**6. <Doctor Manager> Update regimen**

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| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| UR01 | Update regimen by add new medicine to a regimen phase. | 1. Login successfully with role “Doctor Manager”. 2. Create regimen for illness “FAT 1” successfully. 3. Press link to detail regimen of regimen for illness “FAT 1”. 4. Press link to detail phase number 1. 5. Press button “Add new medicine”. 6. In pop-up, input valid information:  * Medicine name: Choose “Panadol” from available option. * Number of times: 3. * Quantitative: 1. * Advice: N/A.  1. Press “Add” button | Display new medicine “Panadol” in medicine list of this regimen. |  | Pass | From 15/11/15 to 7/12/15  (15 times) |
| UR02 | Update regimen with valid information. | 1. Login successfully with role “Doctor Manager” 2. In Regimens view, create regimen for illness “FAT 1” successfully. 3. Click “Update” button for regimen “FAT 1”. Input field on update pop-up:  * Illness name: “FAT 2”. * Illness description: “Béo phì cấp độ 2”. * Number of phase: 5.  1. Press “Update” button. | Display regimen for illness FAT 2 in regimen list. |  | Pass | From 15/11/15 to 7/12/15  (15 times) |
| UR02 | Update regimen with invalid information. | 1. Login successfully with role “Doctor Manager” 2. In Regimens view, create regimen for illness “FAT 1” successfully. 3. Click “Update” button for regimen “FAT 1”. Input field on update pop-up:  * Illness name: empty field. * Illness description: “Béo phì cấp độ 6”. * Number of phase: 25.  1. Press “Update” button. | 1. Web application notice that field Number of phase is invalid: **“Please enter a value less than or equal to 20”.** 2. Web application notice that field Illness name is invalid: **“This field is required.”.** |  | Pass | From 15/11/15 to 7/12/15  (15 times) |
| UR03 | Update regimen by delete a medicine to a regimen phase. | 1. Login successfully with role “Doctor Manager”. 2. Create regimen for illness “FAT 1” successfully. 3. Press link to detail regimen of regimen for illness “FAT 1”. 4. Press link to detail phase number 1. 5. Add new medicine “Panadol” to phase successfully. 6. Press button “Delete” at row of medicine “Panadol”. | Medicine “Panadol” is deleted from medicine list of this regimen. |  | Pass | From 15/11/15 to 7/12/15  (15 times) |

1. **<Doctor Manager> Delete regimen**

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| ID | Test Case Description | Test case procedure | Expected output | Inter-test case dependence | Result | Test Date |
| CR01 | Delete regimen. | 1. Login successfully with role “Doctor Manager”. 2. Create regimen for illness “FAT 1” successfully. 3. Press button “Delete” in row of “FAT 1”. | Regimen for illness “FAT 1” is deleted from regimen list. |  | Pass | From 15/11/15 to 7/12/15  (15 times) |