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# Test plan

## Modules

### Login

#### Username

|  |  |
| --- | --- |
| Type of data entered | Data |
| Valid | sysadmin [Username in system],  Bob [username not in system] |
| Invalid | [no data entered] |

What the program should do:

* if the data entered is valid and the binary search algorithm does find it in the Users table.csv file it should move on to checking the password of the user.
* If the data entered is not found or is invalid – the program should show a message box saying their username was not found

#### Password

|  |  |
| --- | --- |
| Type of data entered | Data |
| Valid | NEAPROJECT [password Correct],  Bob [password incorrect] |
| Invalid | [no data entered] |

What the program should do:

* if the data entered is valid and it is the same as the password taken from the record found in the Users table the login should be accepted and the user should be taken to the main menu
* If the data entered is not the same as the expected password or is invalid – the program should show a message box saying their password was incorrect

### Create account

Data to be entered: Full name, Email, Username, Password, Checking password, Function

|  |  |
| --- | --- |
| Type of data entered | Data |
| Valid | Edmund Phillips, EPhill@gmail.com, Philly, Password123, Password123 |
| Valid [passwords don’t match] | Edmund Phillips, EPhill@gmail.com, Philly, Password123, Password1234 |
| Invalid | Edmund Phillips, , , Password123, Password123 |

Expected result:

* If data is valid and passwords match, the program should add the data to the Users table.csv file as a record, notify the user the account was created and clear the fields.
* If data is valid however passwords do not match, the program should notify the user that the passwords do not match and not create the account
* If data is invalid (missing) the program should notify the user that data is missing or invalid and not create the record

### Logout

Expected result:

* The system should close all forms and return the user to the login page with all fields empty

### View patients

#### Check data read correctly

* Data displayed on the data-grid should exactly match the data stored in the Patients table.csv file
* Repeat without the Patients table.csv file – it should make a new one

#### Check functions within the data-grid form

* Delete patients button
  + Should remove selected record
  + If no record selected it should show a message box telling the user that no patient is selected
* Contact patient GP button
  + Should show a message box with the email of the patients GP
  + If no record selected it should show a message box telling the user that no patient is selected

### Discharge patient

* Should show a form containing the name of the selected patient
  + If no record selected it should show a message box telling the user that no patient is selected
* When discharge patient clicked
  + If the tick box to confirm discharge is not selected the patient should not discharge
  + The patients record should be removed from the Patients table.csv file
  + Patients record should be added to Discharged patients table.csv
* To test – Discharge a patient and check both patient table.csv and discharged patients table.csv

### Manage users

#### Check data read correctly

* Compare data in data-grid the data in Users table.csv – they should match
* Repeat without the Users table.csv file – it should make a new one

### Saving patients to file

#### Check data saved in data grid matches data in file

* Save a data-grid with a few patients
* Check the patients table.csv file – the data here and in the data-grid should match
* Repeat with nothing in the data-grid - csv should be empty

### View discharged patients

#### Check data read correctly

* Data displayed on the data-grid should exactly match the data stored in the Discharged Patients table.csv file
* Repeat without the Discharged Patients table.csv file – it should make a new one

### Add patient

#### Taking data inputs

Data to be input: Name, Height, Weight, DOB, Relevant medical history, Current GP name, Current GP email, Ethnicity

|  |  |
| --- | --- |
| Type of data entered | Data |
| Valid | Steven Bob, 162, 84, 14/05/1965, Had a hip replacement, Dr. Patel, RPatel@nhs.net, White/ Caucasian |
| Invalid | Steven Bob, a, 84, 14/05/1965, Had a hip replacement, Dr. Patel, RPatel@nhs.net, White/ Caucasian |
| Invalid | , 162, 84, 14/05/1965, Had a hip replacement, Dr. Patel, [RPatel@nhs.net](mailto:RPatel@nhs.net), White/ Caucasian |

#### Adding record

* A data entered for the patient should be added as a record the patients data-grid – check this data matches
  + Age on the record should be calculated using date of birth
    - This should be checked

# Testing

### Login

Username

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Type of data entered | Data entered | Expected result | Result | Pass or fail | How to fix problem (optional) |
| Valid [Username in system] | Sysadmin | The system should accept this username and move on to analysing password | The username was accepted and the program moved onto looking at the password | pass | n/a |
| Valid [Username not in system] | Bob | The program should show a message box saying the username was not found | The program didn’t recognise the username and output a message box telling the user this | Pass | n/a |
| Invalid | [empty field] | I am expecting the program to say that it doesn’t recognise the username since the username is checked first | The system output a box saying the username was not recognised | Pass | This output is fine however it may be better to have an output telling the users the fields are empty |

#### Password

|  |  |
| --- | --- |
| Type of data entered | Data |
| Valid | NEAPROJECT [password Correct],  Bob [password incorrect] |
| Invalid | [no data entered] |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Type of data entered | Data entered | Expected result | Result | Pass or fail | How to fix problem (optional) |
| Valid | NEAPROJECT | Login form closes |  |  |  |
|  |  |  |  |  |  |

### Create account

|  |  |
| --- | --- |
| Type of data entered | Data |
| Valid | Edmund Phillips, EPhill@gmail.com, Philly, Password123, Password123 |
| Valid [passwords don’t match] | Edmund Phillips, EPhill@gmail.com, Philly, Password123, Password1234 |
| Invalid | Edmund Phillips, , , Password123, Password123 |

### Logout

### View patients

#### Check data read correctly

#### Check functions within the data-grid form

### Discharge patient

### Manage users

#### Check data read correctly

### Saving patients to file

#### Check data saved in data grid matches data in file

### View discharged patients

#### Check data read correctly

### Add patient

Taking data inputs

|  |  |
| --- | --- |
| Type of data entered | Data |
| Valid | Steven Bob, 162, 84, 14/05/1965, Had a hip replacement, Dr. Patel, RPatel@nhs.net, White/ Caucasian |
| Invalid | Steven Bob, a, 84, 14/05/1965, Had a hip replacement, Dr. Patel, RPatel@nhs.net, White/ Caucasian |
| Invalid | , 162, 84, 14/05/1965, Had a hip replacement, Dr. Patel, [RPatel@nhs.net](mailto:RPatel@nhs.net), White/ Caucasian |

#### Adding record