**Introduction:**

This project is about a Blood Bank Management System. There is homepage where admin can login into their account by providing their login details (username and password).Admin will Insert Update Donors information and every things. Anyone can see the available donor in our site by Nearest Area searching and also search by the donor name for quick info.

**Requirement Engineering (Functional):**

The functional requirements of the Blood Bank Management System are -

1. Admin can login into their account
2. Validation.
3. Insert / Update Donor info
4. insert update delete for Admin
5. Admin can see new order/Request from Donors.

**All pair testing:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Enail** | **Password** | **Role** |
| valid | valid | valid | valid |
| valid | Invalid | Invalid | valid |
| valid | Invalid | valid | Invalid |
| Invalid | valid | Invalid | Invalid |
| Invalid | Invalid | valid | valid |
| Invalid | Invalid | Invalid | Invalid |

**Test Case Design:**

**Test cases 1:** All inputs are **null** in login (Admin).

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Step Details | Example Data | Expected Outcome |
| 1 | Enter Admin Name  Enter Password |  | Show message "Wrong Username or Password" |
| 2 | Click Submit |  |

**Test cases 2:** Wrong inputs in log-in (Admin).

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Step Details | Example Data | Expected Outcome |
| 1 | Enter Admin Name  Enter Password | ----  \*\* | Show message "Please Fill up username and Password with correct information" |
| 2 | Click Submit |  |

**Test cases 3:** Correct inputs in log-in(Admin).

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Step Details | Example Data | Expected Outcome |
| 1 | Enter Admin Name  Enter Password | Sadman74@gmail.com  root | Show message "Connected To Data Base" |
| 2 | Click Submit |  |

**Test cases 4:** Admin add Donor Information.

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Step Details | Example Data | Expected Outcome |
| 1 | Name  Email  Password  Role  phone | Saiful  saiful@gmail.com  \*\*\*\*  ---------  01676292110 | New Donor will create in temporary Data Base |
| 2 | Click “Save” |  |

**Test cases 5:** Admin add Invalid Donor Information.

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Step Details | Example Data | Expected Outcome |
| 1 | Name  Email  Password  Role  phone | saiful@gmail.com  \*\*\*\*  --------- | Please Fill out This filled |
| 2 | Click “Save” |  |

**Test cases 6:** Admin Change Password.

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Step Details | Example Data | Expected Outcome |
| 1 | Current Password  New Password  New Password Conformation | root  admin  admin | Password Changed Successfully |
| 2 | Save |  |

**Test cases 7:** Admin Delete Donor information.

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Step Details | Example Data | Expected Outcome |
| 1 | Name  Password | saiful@gmail.com  \*\*\*\* | This Donor information delete from temporary Data Base Successfully. |
| 2 | Save |  |

**Test cases 8:** inputs are **null** During Search (User).

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Step Details | Example Data | Expected Outcome |
| 1 | Enter Donor Name  Enter Nearest Area | -------  ------- | Show message " Please Fill out This filled" |
| 2 | Click Submit |  |

**Test cases 9: Invalid** inputs During Search (User).

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Step Details | Example Data | Expected Outcome |
| 1 | Enter Donor Name  Enter Nearest Area | ‘Sojib’  ‘Narayangonj’ | Show message "Wrong Donor name or Area" |
| 2 | Click Submit |  |

**Test cases 10:** Correct inputs During Search (User).

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Step Details | Example Data | Expected Outcome |
| 1 | Enter DonorName  Enter Nearest Area | ‘Saiful’  ‘Narayangonj’ | Show Donor information "Name:Saiful,  Address:Shiddirgonj,Narayangonj  Phone: 01676292110  Role: Active  Email: saiful@gmail.com" |
| 2 | Click Submit |  |

**Test cases 11:** Correct Nearest Area inputs During Search (User).

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Step Details | Example Data | Expected Outcome |
| 1 | Enter Donor Name  Enter Nearest Area | ‘--------’  ‘Narayangonj’ | Show Donors information "Name:Saiful,  Phone: 01676292110.  Name:Rasel,  Phone:01720395196" |
| 2 | Click Submit |  |

**Test cases 12:** Admin Accept Donors request.

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Step Details | Example Data | Expected Outcome |
| 1 | Click “Accept” |  | Donor Request accepted by the admin successfully |

**Test cases 13:** Admin Reject Donor Request.

|  |  |  |  |
| --- | --- | --- | --- |
| Steps | Step Details | Example Data | Expected Outcome |
| 1 | Click “Reject” |  | Admin will no longer see this request again |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Test**  **Case ID** | **TC\_1** | **TC\_2** | **TC\_3** | **TC\_4** | **TC\_5** | **TC\_6** | **TC\_7** | **TC\_8** | **TC\_9** | **TC**  **\_10** | **TC**  **\_11** | **TC**  **\_12** | **TC**  **\_13** | **#Test cases**  **requirement** |
| Req. ID  ↓ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Admin invalid input login |  | √ | √ |  |  |  |  |  |  |  |  |  |  |  | **2** |
| **Admin valid input login** |  |  |  | √ |  |  |  |  |  |  |  |  |  |  | **1** |
| Admin Add valid Donors info |  |  |  |  | √ |  | √ |  |  |  |  |  |  |  | **2** |
| Admin add invalid donors info |  |  |  |  |  | √ |  |  |  |  |  |  |  |  | **1** |
| Admin delete donor info |  |  |  |  |  |  |  | √ |  |  |  |  |  |  | **1** |
| Admin Accept Donor Request |  |  |  |  |  |  |  |  |  |  |  |  | √ |  | **1** |
| Admin Reject donor request |  |  |  |  |  |  |  |  |  |  |  |  |  | √ | **1** |
| User Invalid inputs |  |  |  |  |  |  |  |  | √ | √ |  |  |  |  | **2** |
| User correct inputs |  |  |  |  |  |  |  |  |  |  | √ | √ |  |  | **2** |

Requirement Traceability Matrix