‘Lifeline’ - Blood and Plasma Donation Website - Testing Documentation

### PREPARED FOR

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### 1. Introduction

This website ‘Lifeline’ aims to provide its users a simpler and easier way to donate blood and plasma. The purpose of this section is to provide the reader with the general background of the information and an insight about the web application “Lifeline - A Blood and Plasma Donation website”. This document explains the purpose and features of the system and the constraints under which it should operate. It also specifies the domain, functional and non-functional requirements that are essential for the successful use of this application by its customers.

### 2. Objectives and Tasks

**2.1 Objectives**

The objective of the test is to verify that all the functionalities in the application are working properly. During testing, each module will be checked thoroughly whether there are any errors and try to resolve those errors.

**2.2 Tasks**

The basic task to be performed here will be testing each module - every functionality must be tested properly.

**3. Scope**

This website ‘Lifeline’ is basically made by the students of Ahmedabad University as a part of their project. It can be applicable at University as well as National level. The main objective of this project is to simplify the process of blood and plasma donation for the users as well the hospitals.

With the help of this application, it helps the users to save more time. In the current situation of pandemic, it is very vital if any single person could donate blood and save a life. We see that the deaths are increasing every day like never before. Many people are willing to help the needy by making their donation. So, to save time, this application bridges the gap between users and the hospital. The user can register for doing donation and receiving the donation using the website.

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### 4. Functional Testing

Firstly, what is testing? It is the comparison between expected output and actual output. In this domain, we are talking about software testing which is comparing the expected output and actual output provided our software is not facing any error. It also helps in analysing whether our software is missing any requirements or whether the software is having any defect.

Basically, functional testing is a type of software testing methods in which we are supposed to verify the functionality of the software, whether it matches the requirements or not. In this technique, each of the functions is tested by giving an input, determining the output, and then verify whether the actual output is the same as the expected output. It is a black-box testing technique because it mainly focuses on application specification rather than actual code.

The main motivation behind using the functional testing is to check the primary entry function, necessarily usable function, the flow of screen GUI. It also displays an error message wherever required so that the user can easily navigate throughout the application. As the part of our project, we have done functional testing using its 3 different techniques: Unit testing, Integration testing and SMOKE testing.

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### 4.1 Unit Testing

Unit tests are a set of tests which are written by a developer at the time of the software development process.

Module tests are a set of tests which are written by a tester after coding has been completed by a developer for the particular module.

Unit Testing involves the testing of units in isolation.

Module testing involves the combination of the units test.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test CaseID** | **Description** | **Steps to execute** | **Test data/input** | **Expected**  **Result** | **Actual Result** | **Status** |
| **1 - User Signup**  **Required fields: Name, Email, Password**  **Validations: Email, Password** | | | | | | |
| TC101 | Check the required fields by not filling any data | 1. Do not enter any value in the field.  2. Click on the SIGN UP button. | NA | It should display a message asking to enter required fields | A message is displayed asking to enter required fields | PASS |
| TC102 | Check user should SIGN UP by filling all the required fields | 1. Enter valid values in the required fields.  2. Click the SIGN UP button. | 1. Name: Shakshi Raja  Email: shakshi123@gmail.com  Password | Ask to verify link from email  After verification, user should be able to login using correct credentials | Asking to verify the email  After verification, and clicking on Login button, redirected to the login screen | PASS |
| TC103 | 1. Check the Email text field that has an Email address without @ symbol.  2. Check the Email text field that has a missing dot in the email address. | 1. Enter Invalid Email and other required fields  2. Click on the SIGN UP Button. | [1. abc\_def.com](http://1.testatgmail.com/)  2. abc@gmailcom  3. abc\_def\_gmail\_com | It should show the validation message for email formatting | Validation error message for email format is shown and sign up page with empty fields is shown | PASS |
| TC104 | Check all the valid emails | 1. Enter valid Email and other required fields  2. Click on the SIGN UP Button. | 1. abc.def@gmail.com  2. abc@gmail.com | It should not show any validation message | Asking to verify the email  After verification, and clicking on Login button, redirected to the login screen | PASS |
| TC105 | Check the password limit when entered value is less than min (6) | 1. Enter a password value which is less than 6 characters.  2.Click on SIGN UP button | 1. Passw | It should show validation message | Validation error message for password is shown and sign up page with empty fields is shown | PASS |
| TC106 | Check the password when passing valid data | 1. Enter a value which is minimum 6 characters in length  2.Click on SIGN UP button | 1. Passw123 | It should not show any validation message | Asking to verify the email  After verification, and clicking on Login button, redirected to the login screen | PASS |
| TC107 | Verify user can verify its Email ID | 1. Enter valid values in the required fields.  2. Click the SIGN UP button.  3. Go to the Email.  4. Click on the verification link. | NA | User should get a verification link on email and able to verify his/her Email ID. | After entering valid values in required fields, popup message is displayed asking to verify link from email.  After verifying link from the email, and clicking on Login button, redirected to the login page | PASS |
| TC108 | Verify working of Sign up with Google | 1. Click on Sign Up with Google  2. Choose an email to sign up with | NA | User should be able to sign up successfully | Redirected to login page, where after signing in with Google, redirected to dashboard | PASS |
| **2 - User Login**  **Required fields: Email, Password**  **Validations: Email, Password** | | | | | | |
| TC201 | Check the required fields by not filling any data | 1. Do not enter any value in the field.  2. Click on the Login button. | NA | Users should not log in and should show proper error messages. | An error message is displayed asking to enter required fields | PASS |
|  |  |  |  |  |  |  |
| TC203 | Check Keeping Password | 1. Enter valid email  2. Do not enter password  3. Click on Login Button | 1. Email: shakshi123@gmail.com  Password: | Users should not log in and should show proper error messages. | A popup message for password is shown and redirected to login page with empty fields | PASS |
| TC204 | Check when pass correct email and password | 1. Enter valid username  2. Enter correct password  3. Click on Login Button | 1. abc@gmail.com  Password: 12345678 | User should log in successfully | Logged in successfully and redirected to dashboard | PASS |
| TC205 | Check whether the signup link for the new user is working | Click on Signup here | NA | Clicking signup link takes the user to signup page | Redirected to sign up page | PASS |
| TC206 | Verify when passing incorrect Email and correct password | 1. Enter incorrect Email.  2. Enter the correct password.  3. Click on the Login Button. | 1. abc@gmailcom  Password: 12345678 | User should not be able to log in and the error message should be displayed. | No error message for email is shown and login page with empty fields is shown | FAIL |
| TC207 | Verify when passing both incorrect Email and password | 1. Enter incorrect Email.  2. Enter the incorrect password.  3. Click on the Login Button | 1. abc.gmail.com  Password: 1234 | User should not be able to log in and the error message should be displayed. | No error message is shown and login page with empty fields is shown | FAIL |
| TC208 | Verify user login with Google | 1. Click on Login with Google  2. Select an account for login | NA | User should be able to login successfully | Logged in successfully and redirected to dashboard | PASS |
| TC209 | Sign in again after signing out (when signed in using email and password, not with google) | 1. Click on Sign out button  2. Click on Sign In button | NA | User should be able to sign in again successfully | Unable to sign in again | FAIL |
| TC210 | Sign in again after signing out (when signed in with google, not using email and password) | 1. Click on Sign out button  2. Click on Sign In with google button | NA | User should be able to sign in again successfully | Signed in successfully and redirected to dashboard | PASS |
| **3 - Medical Profile** | | | | | | |
| TC302 | Check the phone number when passing alphanumeric data | 1. Enter alphanumeric data in phone field  2. Click on Submit button | 1. gdgs#6746 | It should show proper validation message | An popup message for phone number formatting is displayed | PASS |
| TC303 | Check medical profile by filling all the required fields | Enter valid values in all the required fields | \* | Medical profile should be updated if medical requirements are met.  A popup showing proper error message should be displayed, if the requirements are not met | Checks the minimum medical requirements for donating blood and shows message accordingly | PASS |
| TC304 | Verify if the length of the phone number is incorrect i.e. less than 10. | 1. Enter phone number less than 10 digits.  2.Enter all required fields.  3.Click on Submit Button | 91901122 | It should show proper validation message | A popup message for phone number formatting is displayed | PASS |
| TC305 | Verify if the length of the phone number is incorrect i.e. more than 10 | 1. Enter a mobile number more than 10 digits.  2.Enter all required fields.  3.Click on Submit Button | 91901122445566 | It should show proper validation message | A popup message for phone number formatting is displayed | PASS |
| **4 - Receiver Request** | | | | | | |
| TC401 | Check the required fields by not filling any data | 1. Do not enter any value in the field.  2. Click on the Make Request button. | NA | Request should not be placed and should show proper error message | A popup is displayed asking to enter required fields | PASS |
| TC402 | Check the phone number when passing alphanumeric data | 1. Enter alphanumeric data in phone field  2. Click on Make Request button | 1. gdgs#6746 | It should show proper validation message | A popup message for phone number formatting is displayed | PASS |
| TC403 | Verify if the length of the phone number is incorrect i.e. less than 10. | 1. Enter phone number less than 10 digits.  2.Enter all required fields.  3.Click on Make Request Button | 91901122 | It should show proper validation message | A popup message for phone number formatting is displayed | PASS |
| TC404 | Verify if the length of the phone number is incorrect i.e. more than 10 | 1. Enter a mobile number more than 10 digits.  2.Enter all required fields.  3.Click on Make Request Button | 91901122445566 | It should show proper validation message | A popup message for phone number formatting is displayed | PASS |
| TC405 | Check receive request by filling all the required fields | Enter valid values in all the required fields | \* | Request should be placed | Request successfully submitted, can view the request and donors list | PASS |
| **5 - Register Hospital** | | | | | | |
| TC501 | Check the required fields by not filling any data | 1. Do not enter any value in the field.  2. Click on the Register Here button. | NA | It should display a pop-up asking to enter required fields | A popup is displayed asking to enter required fields | PASS |
| TC502 | Check hospital should register by filling all the required fields | 1. Enter valid values in the required fields.  2. Click the Register Here button. | 1. Select a city  Select a Hospital  Licence number: 6Rw0DuKd6  Password: qwer1234 | Hospital should be able to register | Hospital registered successfully and redirected to hospital sign in page | PASS |
|  |  |  |  |  |  |  |
| TC504 | Check the password when passing valid data | 1. Enter a password value which is minimum 6 characters in length and other required fields  2.Click on Register here button | 1. Passw123 | It should not show any validation message | Hospital registered successfully and redirected to hospital sign in page | PASS |
| TC505 | Check licence number by comparing with database | 1. Enter a valid licence number and other required fields.  2. Click on Register here button | 1. 6Rw0DuKd6 | It should not show any validation message | Hospital registered successfully and redirected to hospital sign in page | PASS |
| TC506 | Check licence number by comparing with database | 1. Enter an invalid licence number and other required fields.  2. Click on Register here button | 1. nckscvbid | It should show proper validation message | A popup saying Licence number does not match is displayed | PASS |
| **6 - Hospital Login** | | | | | | |
| TC601 | Check the required fields by not filling any data | 1. Do not enter any value in the field.  2. Click on the Login button. | NA | Hospitals should not log in and should show proper error messages. | Error message asking to enter required fields | PASS |
| TC602 | Check When passing a correct licence number and invalid password. | 1. Enter valid licence number.  2. Enter incorrect password.  3. Click on Login Button. | 1. Licence number: 6Oo5FhSt6  Password: gsyg#1 | Hospitals should not log in and should show proper error messages. | Login failed and redirected to Hospital Sign In page with empty fields | PASS |
| TC603 | Check Keeping Password | 1. Enter valid licence number.  2. Do not enter password  3. Click on Login Button. | 1. Licence number: 6Oo5FhSt6  Password: | Hospitals should not log in and should show proper error messages. | Login failed and redirected to Hospital Sign In page with empty fields | PASS |
| TC604 | Check when pass correct licence number and password | 1. Enter valid licence number.  2. Enter the correct password.  3. Click on Login Button. | 1. Licence number: 6Oo5FhSt6  Password: abc@123 | Hospital should log in | Logged in successfully and redirected to dashboard | PASS |
| TC605 | Check whether the Register Hospital Here link for the new hospital is working | Click on Register Hospital here here | NA | Clicking Register Hospital Here link takes the user to Register Hospital page successfully | Redirected to Register Hospital page | PASS |
| TC606 | Verify when passing incorrect licence number and correct password | 1. Enter invalid licence number.  2. Enter the correct password.  3. Click on Login Button. | 1. Licence number: 1637&2  Password: abc@123 | Hospitals should not log in and should show proper error messages. | Login failed and redirected to Hospital Sign In page with empty fields | PASS |
| TC607 | Verify when passing both incorrect licence number and password | 1. Enter invalid licence number.  2. Enter incorrect password  3. Click on Login Button. | 1. Licence number: 1637&2  Password: gsyg#1 | Hospitals should not log in and should show proper error messages. | Login failed and redirected to Hospital Sign In page with empty fields | PASS |
| **7 - User Dashboard** | | | | | | |
| TC701 | Verify Donation count displayed on the dashboard | 1. Click on My donation card  2. Count number of donations displayed | NA | Number of donations displayed and count on dashboard should be same | as expected | pass |
| TC702 | Verify Received count displayed on the dashboard | 1. Click on Received card  2. Count number of received donations displayed | NA | Number of received donations displayed and count on dashboard should be same | as expected | pass |
| TC703 | Verify Pending request count displayed on the dashboard | 1. Click on pending request card  2. Count number of request pending displayed | NA | Number of pending request displayed and count on dashboard should be same | as expected | pass |
| TC704 | Verify Hospital connected with us is displayed | 1. Login to user account | NA | Hospitals connected with us should be visible below cards. | As expected | pass |
| TC705 | Verify Events of hospitals is displayed | 1. Login to user account | NA | Events of hospitals should be displayed on dashboard | As expected | pass |
| **8 - Hospital dashboard** | | | | | | |
| TC801 | Verify my application count | 1. Click on application count when application number is 0. | NA | Link should not open for count 0. | As expected | pass |
| TC802 | Verify my application count | 1.Click on application count when application is not equal to 0 | NA | Link should navigate to show applications | As expected | pass |
| TC803 | Verify successful donations | 1. Click on a successful donation when number is 0. | NA | Link should not open for count 0. | As expected | pass |
| TC804 | Verify successful donations | 1. Click on a successful donation when the number is not equal to 0.  2. Go to the firebase.  3. Compare data from firebase and donations. | NA | Link should navigate to show successful donations of donors. | As expected | Pass |
| TC805 | Verify my events | 1. Click on my events when events count is equal to 0. | NA | Link should not navigate to any other page. | As expected | pass |
| TC806 | Verify my events | 1.Click on my events when event count is not equal to 0.  2. Go to the firebase.  3. Compare data with backend. | NA | Link should navigate to the next page where the events are shown. | As expected | pass |
| TC807 | Why Donate Blood link | 1.Go to the hospital dashboard.  2. Click on why donate blood logo or text | NA | Link should navigate to why donate blood page.  It consists of a URL in it. | As expected | pass |
| **9 - Track Application** | | | | | | |
| TC901 | Verify  Donation requests displayed on track application | 1. Login to user account  2. Click on Track Application | NA | Page should display all donation requests | as expected | pass |
| TC902 | Verify Book Slot button visibility on accepted donation requests | 1. Login to user account  2. Click on Track Application | NA | Accepted applications without bookings should have book slot button | as expected | pass |
| TC903 | Verify Calendar displayed on book slot button with 2 week window | 1. Login to user account  2. Click on Track Application  3. Click on Book Slot | NA | Calendar displayed with two weeks booking windows visible | As expected | pass |
| TC904 | Verify selected booking from Calendar is booked | 1. Login to user account  2. Click on Track Application  3. Click on Book Slot  4. Select date  5. Click Book Slot | NA | Pop up with slot booked should appear | As expected | pass |
| **10 . Verification with link Module** | | | | | | |
| TC1001 | Verify that verification page opens on user sign up | 1. Open User Sign up page  2. Fill All necessary details  3. Click on sign up button | \* | User should be navigated to verify link page | As expected | PASS |
| TC1001 | Verify that User can’t login before verifying | 1. Open User Sign up page  2. Fill All necessary details  3. Click on sign up button  4. Click on login button  5. Login with same email | \* | User should not be able to log in and pop up message to verify should appear | As expected | PASS |
| TC1002 | Verify functionality check | 1. Open User Sign up page  2. Fill All necessary details  3. Click on sign up button  4. Click on verify button  5. Verify link sent to mail  6. Login with the same email | \* | The user should able to verify and then login to the account and should be navigated to user dashboard | As expected | PASS |
| **11 - Navigation Bar** | | | | | | |
| TC1101 | Verify Home button is visible in navigation bar | 1. Navigate to the system url | NA | Navigation bar with Home button should be visible | As expected | PASS |
| TC1102 | Verify About Us button is visible in navigation bar | 1. Navigate to the system url | NA | Navigation bar with About Us button should be visible | As expected | PASS |
| TC1103 | Verify Contact Us button is visible in navigation bar | 1. Navigate to the system url | NA | Navigation bar with Contact Us button should be visible | As expected | PASS |
| TC1104 | Verify Sign In button is visible in navigation bar | 1. Navigate to the system url | NA | Navigation bar with Sign In button should be visible | As expected | PASS |
| **12 - User Side navigation bar** | | | | | | |
| TC1201 | Verify Dashboard button is visible in sidebar | 1. Navigate to the system url and sign in as User. | NA | A sidebar with Dashboard button should be visible on user interface | As expected | PASS |
| TC1202 | Verify that the request blood in sidebar visible properly | 1.Navigate to the user sign in page.  2. Navigate to the dashboard. | NA | A sidebar with request blood button should be visible on the user interface | As expected | pass |
| TC1203 | Verify that the button donate blood is visible | 1. Navigate to user signin page.  2.Navigate to the dashboard | NA | A sidebar with donate blood button should be visible on user interface | As expected | pass |
| TC1204 | Verify that the button track application is visible | 1.Navigate to user sign in page.  2.Navigate to dashboard | NA | A sidebar with track application button should be visible on user interface | As expected | pass |
| TC1205 | Verify that the button why donate blood is visible with text | 1.Navigate to user sign in page.  2.Navigate to dashboard | NA | A sidebar with why donate blood should be visible on the user interface | As expected | pass |
| TC1206 | Verify Dashboard button is visible in sidebar of request blood page | 1.Navigate to user sign in page.  2.Navigate to dashboard  3.Navigate to request blood | NA | A sidebar with dashboard button should be visible on request blood page of user interface. | As expected | pass |
| TC1207 | Verify that the button donate blood is visible in sidebar of request blood page | 1.Navigate to user sign in page.  2.Navigate to dashboard  3.Navigate to request blood | NA | A sidebar with donat blood button button should be visible on request blood page of user interface. | As expected | pass |
| TC1208 | Verify that the button track application is visible in sidebar of the request blood page. | 1.Navigate to user sign in page.  2.Navigate to dashboard  3.Navigate to request blood | NA | A sidebar with track application button should be visible on request blood page of user interface. | As expected | pass |
| TC1209 | Verify that the button why donate blood is visible with text in sidebar of request blood page. | 1.Navigate to user sign in page.  2.Navigate to dashboard  3.Navigate to request blood | NA | A sidebar with why donate blood button should be visible on request blood page of user interface. | As expected | pass |
| TC1210 | Verify Dashboard button is visible in sidebar of donate blood page | 1.Navigate to user sign in page.  2.Navigate to dashboard  3.Navigate to donate blood | NA | A sidebar with dashboard button should be visible on donate blood page of user interface. | As expected | pass |
| TC1211 | Verify that the button request blood is visible in sidebar of donate blood page | 1.Navigate to user sign in page.  2.Navigate to dashboard  3.Navigate to donate blood | NA | A sidebar with request blood button should be visible on donate blood page of user interface. | As expected | pass |
| TC1212 | Verify that the button track application is visible in the sidebar of the donate blood page. | 1.Navigate to user sign in page.  2.Navigate to dashboard  3.Navigate to donate blood | NA | A sidebar with a track application button should be visible on donate blood page of the user interface. | As expected | pass |
| TC1213 | Verify that the button why donate blood is visible with text in the sidebar of donate blood page. | 1.Navigate to user sign in page.  2.Navigate to dashboard  3.Navigate to donate blood | NA | A sidebar with why donate blood button should be visible on donate blood page of the user interface. | As expected | pass |
| TC1214 | Verify Dashboard button is visible in sidebar of track application page | 1.Navigate to user sign in page.  2.Navigate to dashboard  3.Navigate to track application | NA | A sidebar with dashboard button should be visible on the track application page of the user interface. | As expected | pass |
| TC1215 | Verify that the button request blood is visible in sidebar of track application page | 1.Navigate to user sign in page.  2.Navigate to dashboard  3.Navigate to track application | NA | A sidebar with request blood button should be visible on track application page of user interface | As expected | pass |
| TC1216 | Verify that the button to donate blood is visible in the sidebar of the track application page. | 1.Navigate to user sign in page.  2.Navigate to dashboard  3.Navigate to track application | NA | A sidebar with donate blood button should be visible on track application page of user interface | As expected | pass |
| TC1217 | Verify that the button why donate blood is visible with text in the sidebar of the track application page. | 1.Navigate to user sign in page.  2.Navigate to dashboard  3.Navigate to track application | NA | A sidebar with why donate blood button should be visible on track application page of user interface | As expected | pass |
|  |  |  |  |  |  |  |
| **13 - Hospital Side navigation bar** | | | | | | |
| TC1301 | Verify Dashboard button is visible in sidebar | 1. Navigate to the system url and sign in as hospital | NA | A sidebar with Dashboard button should be visible | As expected | PASS |
| TC1302 | Verify Update Applications button is visible in sidebar | 1. Navigate to the system url and sign in as hospital | NA | A sidebar with Update Applications button should be visible | As expected | PASS |
| TC1303 | Verify Post Event button is visible in sidebar | 1. Navigate to the system url and sign in as hospital | NA | A sidebar with Post Event button should be visible | As expected | PASS |
| Tc1304 | Verify Appointments button is visible in sidebar | 1. Navigate to the system url and sign in as hospital | NA | A sidebar with Appointments button should be visible | As expected | PASS |
| **14 - Home page** | | | | | | |
| TC1401 | Verify banner displayed on the homepage | 1. Navigate to the system url | NA | A banner for blood donation should be visible | As expected | PASS |
| TC1402 | Verify sidebar displayed on the homepage | 1. Navigate to the system url | NA | A sidebar for navigation should be visible | As expected | PASS |
| TC1403 | Verify news displayed on the homepage | 1. Navigate to the system url | NA | News related to blood and plasma donation should be visible | As expected | PASS |
| TC1404 | Verify top navigation bar displayed on the homepage | 1. Navigate to the system url | NA | A top navigation bar for navigation should be visible | As expected | PASS |
| TC1405 | Verify Why Donate Blood displayed on the homepage | 1. Navigate to the system url | NA | A link for Why Donate Blood should be visible | As expected | PASS |
| TC1406 | Verify Events displayed on the homepage | 1. Navigate to the system url | NA | Events posted by hospitals should be visible | As expected | PASS |
| **15 - Post Event on Hospital Interface** | | | | | | |
| TC1501 | Verify Add Event tab is visible | 1. Navigate to the system url  2. Sign in as hospital  3. Click on Post Event button from sidebar | NA | A tab for add event should be visible | As expected | PASS |
| TC1502 | Verify My Events tab is visible | 1. Navigate to the system url  2. Sign in as hospital  3. Click on Post Event button from sidebar | NA | A tab for my events should be visible | As expected | PASS |
| TC1503 | Verify Choose File button is visible under Add Event tab | 1. Navigate to the system url  2. Sign in as hospital  3. Click on Post Event button from sidebar | NA | A choose file button for selecting a file should be visible | As expected | PASS |
| TC1504 | Verify Upload button is visible under Add Event tab | 1. Navigate to the system url  2. Sign in as hospital  3. Click on Post Event button from sidebar | NA | An upload button for uploading file should be visible | As expected | PASS |
| TC1505 | Verify Post button is visible under Add Event tab | 1. Navigate to the system url  2. Sign in as hospital  3. Click on Post Event button from sidebar | NA | A post button for posting the event should be visible | As expected | PASS |
| TC1506 | Verify text field for title is visible under Add Event tab | 1. Navigate to the system url  2. Sign in as hospital  3. Click on Post Event button from sidebar | NA | A text field for entering title of event should be visible | As expected | PASS |
| TC1507 | Verify text field for description is visible under Add Event tab | 1. Navigate to the system url  2. Sign in as hospital  3. Click on Post Event button from sidebar | NA | A text field for entering description of event should be visible | As expected | PASS |
| TC1508 | Verify List of events is visible under My Events tab | 1. Navigate to the system url  2. Sign in as hospital  3. Click on Post Event button from sidebar  4. Click on My Events tab | NA | A list of events organised by the hospital should be visible | As expected | PASS |
| **16 - About Us in navigation** | | | | | | |
| TC1601 | Verify about us is displayed on navbar | 1, Login to user account | NA | User should be able to see About us button on navbar | As expected | PASS |
| TC1602 | Verify about us button functionality | 1. Login to user account  2. Click on about us | NA | The about us page should be visible | As Expected | PASS |
| **17 - Contact us in navigation** | | | | | | |
| TC1701 | Verify Contact us is displayed on navbar | 1, Login to user account | NA | User should be able to see Contact us button on navbar | As expected | PASS |
| TC1702 | Verify contact us button functionality | 1. Login to user account  2. Click on contact us | NA | The contact us page should be visible | As Expected | PASS |
| **18 - Update Applications** | | | | | | |
| TC1801 | Verify Pending applications are displayed on Update Application | 1. Log in to Hospital  2. Go to Update Application | NA | The Update Application page should display all the pending applications with Accept and Deny Buttons. | As expected | PASS |
| TC1802 | Verify Accept button functionality | 1. Log in to Hospital  2. Go to Update Application  3. Click on Accept Button | NA | The Application should be marked as accepted and moved to My Applications | As expected | PASS |
| TC1803 | Verify Deny button functionality | 1. Log in to Hospital  2. Go to Update Application  3. Click on Deny Button | NA | The application should be marked rejected and should be removed from the page | As expected | PASS |
| **19 - Donate now on banner** | | | | | | |
| TC1901 | Verify Donate now button on home banner | 1. Click on donate now to home banner | NA | The user should be redirected to the User sign in page. | As expected | PASS |
| TC1902 | Verify Donate now button on Dashboard banner | 1. Log in to User account  2. Click on donate now on banner | NA | The user should be redirected to medical profile page | As expected | PASS |
| **20 - View My Request** | | | | | | |
| TC2001 | Verify view My Request  functionality | 1)Login page is displayed and a user enters  Correct email and password and logs in  the system  2) User dashboard is displayed.  3)Click on Request Pending button | 1. abc@gmail.com  Password: 12345678 | The user should be able to view  My Request tab on mainpage | The user should be able to view  My Request tab on mainpage | PASS |
| TC2002 | Verify pending requests | 1. Login to user account  2. Click on request pending | NA | The user should be able to see all pending requests with complete and delete button | As Expected | PASS |
| TC2003 | Verify Complete Button functionality | 1. Login to user account  2. Click on request pending  3. Click on Complete request | NA | The request should get removed from this page and added to the received tab. | As Expected | PASS |
| TC2004 | Verify Delete button functionality | 1. Login to user account  2. Click on request pending  3. Click on delete request | NA | The request should be removed from the page | As expected | PASS |
| **21 - User Interface Alignment** | | | | | | |
| T2101 | Verify that the alignment of signup page is proper | 1. Open the sign up page | NA | Alignment and spacing should be proper in signup page | As expected | PASS |
| TC2101 | Verify that the fonts of signup page is proper | 1. Open the sign up page  2. Open the login page | NA | Fonts should be proper in signup page | As expected | PASS |
| TC2101 | Verify that image on signup and login page is proper | 1. Open the sign up page  2. Open the login page | NA | Image should be displayed properly. | As expected | PASS |
| TC2101 | Verify that input on signup and login page is proper | 1. Open the sign up page  2. Open the login page | NA | Input field font and text should be displayed properly | As expected | PASS |
| T2102 | Verify that alignment of login page is proper | 1. Open the sign up page  2. Open the login page | NA | Alignment and spacing should be proper | As expected | PASS |
| TC2102 | Verify that font of login page is proper | 1. Open the login page | NA | Font and styles of login page should be proper | As expected | PASS |
| T2103 | Verify that alignment of dashboard is proper | 1. Open the login page  2. Login to the system | NA | Alignment and spacing should be proper | As expected | PASS |
| T2104 | Verify that font of dashboard is proper | 1. Open the login page  2. Login to the system | NA | Fonts and style of dashboard should be proper | As expected | PASS |
| TC2104 | Verify that banner of dashboard is proper | 1. Open the login page  2. Login to the system | NA | Banner size should be proper on dashboard page | As expected | PASS |
| TC2104 | Verify that cards on dashboard is proper | 1. Open the login page  2. Login to the system | NA | Cards alignment and design should be proper | As expected | PASS |
| TC2104 | Verify that events on dashboard is proper | 1. Open the login page  2. Login to the system | NA | Events should be properly displayed on dashboard | As expected | PASS |
| TC2104 | Verify that hospitals on dashboard is proper | 1. Open the login page  2. Login to the system | NA | Hospitals connected with us slider should work properly | As expected | PASS |
| TC2104 | Verify that navigation on dashboard is proper | 1. Open the login page  2. Login to the system | NA | Navigation should be static | As expected | PASS |
| TC2105 | Verify that Donate blood alignment is proper | 1. Open the login page  2. Login to the system  3. Click on Donate blood | NA | Donate blood page format should be proper | As expected | PASS |
| TC2105 | Verify that Donate blood fonts are proper | 1. Open the login page  2. Login to the system  3. Click on Donate blood | NA | Fonts and style of donate blood page should be proper | As expected | PASS |
| TC2105 | Verify that Donate blood input field is proper | 1. Open the login page  2. Login to the system  3. Click on Donate blood | NA | Input text areas should be proper for donate blood | As expected | PASS |
| TC2106 | Verify that request blood alignment is proper | 1. Open the login page  2. Login to the system  3. Click on request blood | NA | Request blood page alignment should be proper | As expected | PASS |
| TC2106 | Verify that request blood alignment is proper | 1. Open the login page  2. Login to the system  3. Click on Donate blood | NA | Request blood page form should be proper | As expected | PASS |
| TC2106 | Verify that request blood font is proper | 1. Open the login page  2. Login to the system  3. Click on request blood | NA | Fonts and style of request blood should be proper | As expected | PASS |
| TC2106 | Verify that request blood radio button is proper | 1. Open the login page  2. Login to the system  3. Click on Donate blood | NA | Radio button and text should be aligned. | Not aligned | fail |
| TC2107 | Verify that track application page alignment is proper | 1. Open the login page  2. Login to the system  3. Click on track application | NA | Track application page alignment should be done properly | As expected | PASS |
| TC2107 | Verify that track application page font is proper | 1. Open the login page  2. Login to the system  3. Click on track application | NA | Fonts and styles of track application should be proper | As expected | PASS |
| TC2108 | Verify that book slot page alignment iis proper | 1. Open the login page  2. Login to the system  3. Click on track application  4. Click on book slot button | NA | Book slot page alignment should be proper | As expected | PASS |
| TC2108 | Verify that book slot calendar is proper | 1. Open the login page  2. Login to the system  3. Click on track application  4. Click on book slot button | NA | Calendar visibility should be proper | As expected | PASS |
| TC2108 | Verify that book slot button is proper | 1. Open the login page  2. Login to the system  3. Click on track application  4. Click on book slot button | NA | Button should be in between with css effects | As expected | PASS |
| TC2109 | Verify that why donate blood alignment is proper | 1. Open the login page  2. Login to the system | NA | Why donate blood page text should be aligned properly. | As expected | PASS |
| TC2109 | Verify that why donate blood image alignment is proper | 1. Open the login page  2. Login to the system | NA | Image of why donate blood should be static and link should be provided | As expected | PASS |
| TC21010 | Verify that all links alignment is proper | 1. Open the login page  2. Login to the system | NA | All links and connection check | As expected | PASS |
| TC21011 | Verify that navigation buttons are proper | 1. Open the login page  2. Login to the system | NA | Navigation buttons should be designed with same font and css | As expected | PASS |
| TC21012 | Verify that css effects on navigation bar is proper | 1. Open the login page  2. Login to the system | NA | Css effects and margins should be proper | As expected | PASS |
| TC21013 | Verify that side navigation is proper on all the pages | 1. Open the login page  2. Login to the system | NA | Should be static and proper in all pages | As expected | PASS |
| TC21014 | Verify that dashboard is responsive | 1. Login on user interface.  2.Navigate to dashboard | NA | Dashboard should be responsive | Not Responsive | FAIL |
| TC21014 | Verify that request blood is responsive | 1. Login on user interface.  2.Navigate to request blood | NA | Request blood should be responsive | Not Responsive | FAIL |
| TC21014 | Verify that donate blood is responsive | 1. Login on user interface.  2.Navigate to donate blood | NA | Donate blood page should be responsive | Not Responsive | FAIL |
| TC21014 | Verify that track application is responsive | 1. Login on user interface.  2.Navigate to track application | NA | Track application should be responsive | Not Responsive | FAIL |
| TC21014 | Verify that why donate blood is responsive | 1. Login on user interface.  2.Navigate to why donate blood | NA | Why donate blood page should be responsive | Not Responsive | FAIL |
| TC21014 | Verify that navigation is responsive | 1. Login on user interface.  2.Check navigation | NA | Navigation should be responsive | Not Responsive | FAIL |
| TC21014 | Verify that sidebar is responsive | 1. Login on user interface.  2.Check sidebar | NA | SIdebar page should be responsive | Not Responsive | FAIL |
| TC21014 | Verify that displayed events are responsive | 1. Login on user interface.  2.Navigate to Home | NA | Displayed events and news on home page should be responsive | Not Responsive | FAIL |
| **22 - Appointments** | | | | | | |
| TC2201 | Verify that appoints from donors should be errorless | 1)Login page is displayed and a Hospital enters  Correct email and password and logs in  the system  2) Hospital Dashboard is displayed.  3)Click on appointment button | 1. Licence number: 6Oo5FhSt6  Password: abc@123 | The appointments of donor should be visible in appoint page with valid count | As expected | PASS |
| TC2202 | Verify appointment details from firestore database | 1))Login page is displayed and a Hospital enters  Correct email and password and logs in  the system  2) Hospital Dashboard is displayed.  3)Click on appointment button  3)Go to database verify number | 1. Licence number: 6Oo5FhSt6  Password: abc@123 | The details shown on appointment page should be same as firestore database | As expected | PASS |
| TC2203 | Verify appointment list by making appointment to hospital | 1.Make request from user interface  2.Login to hospital  3.Verify donor details and request. | 1. Licence number: 6Oo5FhSt6  Password: abc@123 | Request which was made from user interface should be shown on appointment page | As expected | PASS |
| **23 - Hospital banner registration link** | | | | | | |
| TC2301 | Verify Register hospital link on hospital banner | 1. Click on register hospital to hospital banner banner | NA | The user should be redirected to the register hospital page. | As expected | PASS |
|  |  |  |  |  |  |  |
| **24 - Hospital Interface Alignment** | | | | | | |
| TC2401 | Verify that the alignment of signup page is proper | 1. Open the sign up page | NA | Alignment and spacing should be proper in signup page | As expected | PASS |
| TC2401 | Verify that the fonts of signup page is proper | 1. Open the sign up page  2. Open the login page | NA | Fonts should be proper in signup page | As expected | PASS |
| TC2402 | Verify that image on signup and login page is proper | 1.Open the login page | NA | Image should be displayed properly. | As expected | PASS |
| TC2402 | Verify that alignment of login page is proper | 1.Open the login page | NA | Alignment and spacing should be proper | As expected | PASS |
| TC2402 | Verify that font of login page is proper | 1.Open the login page | NA | Font and styles of login page should be proper | As expected | PASS |
| TC2403 | Verify that alignment of dashboard is proper | 1.Open the login page  2. Log into the system | NA | Alignment and spacing should be proper | As expected | PASS |
| TC2403 | Verify that banner of dashboard is proper | 1.Open the login page  2. Log into the system | NA | Banner size should be proper on dashboard page | As expected | PASS |
| TC2403 | Verify that cards on dashboard is proper | 1.Open the login page  2. Log into the system | NA | Cards alignment and design should be proper | As expected | PASS |
| TC2403 | Verify that events on dashboard is proper | 1.Open the login page  2. Log into the system | NA | Events should be properly displayed on dashboard | As expected | PASS |
| TC2403 | Verify that navigation on dashboard is proper | 1.Open the login page  2. Log into the system | NA | Navigation should be static | As expected | PASS |
| TC2404 | Verify that the alignment of update applications is proper | 1.Open the login page  2. Log into the system  3. Click on update applications | NA | Alignment and spacing should be proper | As expected | PASS |
| TC2404 | Verify that the fonts of update application is proper | 1.Open the login page  2. Log into the system  3. Click on update applications | NA | Fonts should be proper in update application page | As expected | PASS |
| TC2405 | Verify that the pending requests are displayed proper | 1.Open the login page  2. Log into the system  3. Click on update applications | NA | Alignment and spacing should be proper | As expected | PASS |
| TC2405 | Verify the colours and fonts of pending requests is proper | 1.Open the login page  2. Log into the system  3. Click on update applications | NA | Fonts should be proper in pending request page | As expected | PASS |
| TC2406 | Verify the post events alignment is proper | 1.Open the login page  2. Log into the system  3. Click on post events | NA | Alignment and spacing should be proper | As expected | PASS |
| TC2406 | Verify that the font of post events is proper | 1.Open the login page  2. Log into the system  3. Click on post events | NA | Fonts should be proper in Post event page | As expected | PASS |
| TC2407 | Verify that the alignment of the add events is proper | 1.Open the login page  2. Log into the system  3. Click on post events  4. Click on add events | NA | Alignment and spacing should be proper | As expected | PASS |
| TC2407 | Verify that the fonts of add events is proper | 1.Open the login page  2. Log into the system  3. Click on post events  4. Click on add events | NA | Fonts should be proper in add events page | As expected | PASS |
| TC2408 | Verify that the alignment of my events is proper | 1.Open the login page  2. Log into the system  3. Click on post events  4. Click on my events | NA | Alignment and spacing should be proper | As expected | PASS |
| TC2408 | Verify that the font of my events is proper | 1.Open the login page  2. Log into the system  3. Click on post events  4. Click on my events | NA | Fonts should be proper in my events page | As expected | PASS |
| TC2409 | Verify that the appointments alignment is proper | 1.Open the login page  2. Log into the system  3. Click on appointments | NA | Alignment and spacing should be proper | As expected | PASS |
| TC2409 | Verify that the appointments font is proper | 1.Open the login page  2. Log into the system  3. Click on appointments | NA | Fonts should be proper in appointments page | As expected | PASS |
| TC2409 | Verify that the appointments calendar is proper | 1.Open the login page  2. Log into the system  3. Click on appointments | NA | Alignment and spacing should be proper | As expected | PASS |
| **25 - Hospital logout** | | | | | | |
| TC2501 | Verify Hospital logout Functionality | 1. Login to Hospital account  2. Click on sign out button | NA | The Hospital User should logout from account and navigated to sign in page | The user navigated to sign in page but not logged out | FAIL |
| **26 - User Logout** | | | | | | |
| TC2601 | User logout functionality | 1. Login to the User account  2.Click on Sign out button | NA | The user should sign out from account and redirected to home page | As expected | PASS |

**4.2 Integration Testing**

Integration testing is the second level of the software testing technique that comes right after unit testing. In this testing, units or individual components of the software are tested in a group or as a module. The focus here remains mainly to expose the defects at the time of interaction between the integrated components or units.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Test Case** | **Test Case Description** | **Test Step Description** | **Expected Result** | **Actual Result** | **Status** |
| TC701 | Verify interface functionality sign in and user 'Dashboard' module | Verifying the interface link between sign in and the user 'Dashboard' module i.e. when a user enters the credentials and sign in, it should be directed to the user 'Dashboard' page. | 1) navigate to the system url  2) Click on Sign in  3) Enter email id and password  4) Click on the login button | The user 'Dashboard' page should be opened when the user sign in | As Expected | Pass |
| TC702 | Verify Interface functionality between user 'Dashboard' and 'Request Blood' module | Verifying the interface link between user 'Dashboard' and the 'Request Blood' module i.e. when a user clicks the Request blood button, it should be directed to the 'Receiver Request' page. | 1) navigate to the system url and sign in  2) User Dashboard Page is displayed  3) Click on the Request Blood | The 'Receiver Request' page should be opened when the user click the Request Blood button | As Expected | Pass |
| TC703 | Verify interface functionality sign out and 'Homepage' module | Verifying the interface link between sign out and the 'Homepage' module i.e. when a user clicks the sign out button, it should be directed to the 'Homepage'. | 1) navigate to the system url and sign in  2) Click on the sign out | The 'Homepage' should be opened when the user sign out | As Expected | Pass |
| TC704 | Verify Interface functionality between user 'Dashboard' and 'Donate Blood' module | Verifying the interface link between user 'Dashboard' and the 'Donate Blood' module i.e. when a user clicks the Donate Blood button, it should be directed to the 'Donor Profile' page. | 1) navigate to the system url and sign in  2) User Dashboard Page is displayed  3) Click on the Donate Blood | The 'Donor Profile' page should be opened when the user click the Donate Blood button | As Expected | Pass |
| TC705 | Verify Interface functionality between user 'Dashboard' and 'Track Application' module | Verifying the interface link between user 'Dashboard' and the 'Track Application' module i.e. when a user clicks the Track Application button, it should be directed to the 'Track Application' page. | 1) navigate to the system url and sign in  2) User Dashboard Page is displayed  3) Click on the Track Application | The 'Track Application' page should be opened when the user click the Track Application button | As Expected | Pass |
| TC706 | Verify Interface functionality between user 'Dashboard' and  'Homepage' module | Verifying the interface link between user 'Dashboard' and the 'Homepage' module i.e. when a user clicks the Home button, it should be directed to the 'Homepage'. | 1) navigate to the system url and sign in  2) User Dashboard Page is displayed  3) Click on the Home | The 'Homepage' should be opened when the user click the Home button | As Expected | Pass |
| TC707 | Verify Interface functionality between 'Homepage' and 'About Us' module | Verifying the interface link between 'Homepage' and the 'About Us' module i.e. when a user clicks the About Us button, it should be directed to the 'About' page. | 1) navigate to the system url  2) Homepage is displayed  3) Click on the About Us | The 'About' page should be opened when the user click About Us button | As Expected | Pass |
| TC708 | Verify Interface functionality between 'Homepage' and 'Contact Us' module | Verifying the interface link between 'Homepage' and the 'Contact Us' module i.e. when a user clicks the Contact Us button, it should be directed to the 'Contact' page. | 1) navigate to the system url  2) Homepage is displayed  3) Click on the Contact Us | The 'Contact' page should be opened when the user click Contact Us button | As Expected | Pass |
| TC709 | Verify Interface functionality between 'Homepage' and 'Register Hospital' module | Verifying the interface link between 'Homepage' and the 'Register Hospital' module i.e. when a user clicks the Register Hospital button, it should be directed to the 'Hospital Register' page. | 1) navigate to the system url  2) Homepage is displayed  3) Click on the Register Hospital | The 'Hospital Register' page should be opened when the user click Register Hospital button | As Expected | Pass |
| TC710 | Verify Interface functionality between user 'Dashboard' and  'Received Blood Request' module | Verifying the interface link between user 'Dashboard' and the 'Received Blood Request' module i.e. when a user clicks the Received button, it should be directed to the 'Received Blood Request' page. | 1) navigate to the system url and sign in  2) User Dashboard Page is displayed  3) Click on the Received | The 'Received Blood Request' page should be opened when the user click Received button | As Expected | Pass |
| TC711 | Verify Interface functionality between user 'Dashboard' and 'Request Pending' module | Verifying the interface link between user 'Dashboard' and the 'Request pending' module i.e. when a user clicks the Request Pending button, it should be directed to the 'View My Request' page. | 1) navigate to the system url and sign in  2) User Dashboard Page is displayed  3) Click on the Request Pending | The 'View My Request' page should be opened when the user click Request Pending button | As Expected | Pass |
| TC712 | Verify Interface functionality between user 'Dashboard' and 'My Donations' module | Verifying the interface link between user 'Dashboard' and the 'My Donations' module i.e. when a user clicks the My Donations button, it should be directed to the 'View Receivers' page.  Hospital Dashboard | 1) navigate to the system url and sign in  2) User Dashboard Page is displayed  3) Click on the My Donations | The 'View Receivers' page should be opened when the user click Request Pending button | As Expected | Pass |
| TC713 | Verify interface functionality sign in and hospital 'Dashboard' module | Verifying the interface link between sign in and the hospital 'Dashboard' module i.e. when a hospital enters the valid credentials and sign in, it should be directed to the hospital 'Dashboard' page. | 1) navigate to the system url  2) Click on Register Hospital and then on Login button at the bottom  3) Enter licence number and password  4) Click on the login button | The hospital 'Dashboard' page should be opened when the hospital sign in | As Expected | Pass |
| TC714 | Verify Interface functionality between hospital 'Dashboard' and 'Update Applications' module | Verifying the interface link between the hospital 'Dashboard' and the 'Update Applications' module i.e. when a hospital clicks the Update Applications button, it should be directed to the 'Pending Hospital Applications' page. | 1) navigate to the system url and sign in  2) Hospital Dashboard Page is displayed  3) Click on the Update Applications | The 'Pending Hospital Applications' page should be opened when the user click the Update Applications button | As Expected | Pass |
| TC715 | Verify Interface functionality between hospital 'Dashboard' and 'Post Event' module | Verifying the interface link between hospital 'Dashboard' and the 'Post Event' module i.e. when a hospital clicks the Post Event button, it should be directed to the 'Add Event' page. | 1) navigate to the system url and sign in  2) Hospital Dashboard Page is displayed  3) Click on the Post Event | The 'Add Event' page should be opened when the user click the Post Event button | As Expected | Pass |
| TC716 | Verify Interface functionality between hospital 'Dashboard' and 'Appointments' module | Verifying the interface link between hospital 'Dashboard' and the 'Appointments' module i.e. when a hospital clicks the Appointments button, it should be directed to the 'Appointments' page. | 1) navigate to the system url and sign in  2) Hospital Dashboard Page is displayed  3) Click on the Appointments | The 'Appointments' page should be opened when the user click the Appointments button | As Expected | Pass |
| TC717 | Verify Interface functionality between 'Homepage' and 'Why Donate Blood' module | Verifying the interface link between hospital 'Homepage' and the 'Why Donate Blood' module i.e. when a user clicks the Why Donate Blood? link, it should be directed to the 'Why Donate Blood' page. | 1) navigate to the system url  2) Home page is displayed  3) Click on the Why Donate Blood? | The 'Why Donate Blood' page should be opened when the user clicks the Why Donate Blood? link | As Expected | Pass |
| TC718 | Verify Interface functionality between hospital 'Dashboard' and 'My Applications' module | Verifying the interface link between hospital 'Dashboard' and the 'My Applications' module i.e. when a hospital clicks the My Applications button, it should be directed to the 'View Application' page. | 1) navigate to the system url and sign in  2) Hospital Dashboard Page is displayed  3) Click on the My Applications | The 'View Applications' page should be opened when the user click the My Application Button | As Expected | Pass |
| TC719 | Verify Interface functionality between hospital 'Dashboard' and 'Successful Donations' module | Verifying the interface link between hospital 'Dashboard' and the 'Successful Donations' module i.e. when a hospital clicks the Successful Donation button, it should be directed to the 'Successful Donations' page. | 1) navigate to the system url and sign in  2) Hospital Dashboard Page is displayed  3) Click on the Successful Donations | The 'Successful Donations' page should be opened when the user click the Successful Donations button | As Expected | Pass |
| TC720 | Verify Interface functionality between hospital 'Dashboard' and 'My Events' module | Verifying the interface link between hospital 'Dashboard' and the 'My Events' module i.e. when a hospital clicks the My Events button, it should be directed to the 'My Events' page. | 1) navigate to the system url and sign in  2) Hospital Dashboard Page is displayed  3) Click on the My Events | The 'My Events' page should be opened when the user click the My Events button | As Expected | Pass |
| TC721 | Verify Interface functionality between user 'Dashboard' and 'Donate Now' module | Verifying the interface link between user 'Dashboard' and the 'Donate Now' module i.e. when a user clicks the Donate Now button, it should be directed to the 'Donor Profile' page. | 1) navigate to the system url and sign in  2) User Dashboard Page is displayed  3) Click on the Donate Now | The 'Donor profile' page should be opened when the user click the Donate Now button | As Expected | Pass |

**4.3 SMOKE Testing:**

Smoke Testing is done whenever the new functionalities of software are developed. Integrated with existing builds that are deployed in a QA/staging environment. It ensures that all critical functionalities are working correctly or not.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **TestID** | **Test Scenario** | **Description** | **Test step** | **Expected Result** | **Actual Result** | **Status** |
| **1 - User Signup : Able to move to the next window(sign in) with valid username and password on clicking signup button.**  **User Signup: Able to move to next window with Google signup option** | | | | | | |
| T-001 | Valid signup with user | Test the signup functionality of the web application to ensure that a user can register himself  with valid email and password | 1. Launch the web app.  2. Navigate the signup page.  3. Enter valid email  4. Enter a valid password.  5. CLick on login button | Signup should be successful with email and password | as expected | pass |
| T-002 | Valid Signup with google | Test the web app to ensure that  a user can register himself with google account. | 1. Launch the web app.  2. Navigate to the signup page.  3. Click on signup with google.  4. Choose google account from popup  5. Navigate to next window | Signup should be successful with google account | as expected | pass |
| **2 - User Sign In : Able to move to the next window with valid username and password on clicking the login button.**  **User Sign In: Able to move to next window withGoogle sign in option** | | | | | | |
| T-001 | Valid login with user  credentials | Test the login functionality of the web application to ensure that a registered user is allowed to login with email and password | 1. Launch the web app.  2. Navigate the sign-in page.  3. Enter valid email.  4. Enter a valid password.  5. CLick on login button | Login should be successful with username and password | as expected | pass |
| T-002 | Valid login with google | Test the web app to ensure that  a registered user is allowed  to login with google account. | 1. Launch the web app.  2. Navigate to sign in page.  3. Click on sign in with google.  4. Choose google account from popup  5. Navigate to next window | Login should be successful with google account | as expected | pass |
| **3 - Donation Request : Able to make a donation request and render to the next window with valid details of the user profile.** | | | | | | |
| T-001 | Valid donation request | Test the web app to ensure that user can make a donation request by filling up required data | 1. Launch the web app  2. Navigate to Donate blood after login successfully.  3. Fill all the required data correctly.  4. Choose a hospital.  5. Press submit button. | User application should be submitted to hospital interface | as expected | pass |
| T-002 | Valid user profile to donate blood | Test the web app to ensure that user is able to donate his/her blood | 1. Launch the web app.  2. Navigate to Donate blood after login successfully.  3. fill the required data with not valid conditions for donating blood.  (eg. person who is under/over-weight and with disease)  4. Choose a hospital.  5. Press the submit button | User application should be rejected and not submitted to the hospital | as expected | pass |
| T-003 | View receivers to valid donation request ) | Test the web app to ensure that the user is able to see blood receivers once he made a successful donation request. | 1. Launch the web app.  2. Navigate to Donate Blood after login successfully.  3. Fill the required data.  4. Choose a hospital.  5. Press submit button. | User should be navigated to next window where he can see the receiver list | as expected | pass |
| **4 - Receiver Request : Able to make a request of blood and render to the next window with valid details of the user profile.** | | | | | | |
| T-001 | Valid receiver request | Test the web app to ensure that user can make a blood request by filling up required data | 1. Launch the web app  2. Navigate toRequest Blood after login successfully.  3. Fill all the required data correctly.  4. Choose a hospital.  5. Press submit button. | User request should be seen by all donors | as expected | pass |
| T-002 | Valid receiver request | Test the web app to ensure that the user is able to see donors once he/she has submitted all the details correctly. | 1. Launch the web app  2. Navigate toRequest Blood after login successfully.  3. Fill all the required data correctly.  4. Choose a hospital.  5. Press submit button. | User request should be seen by all donors in the next window | as expected | pass |
| **5 - Track application: Donor should be able to track his application after filling up the donation details.** | | | | | | |
| T-001 | Track valid donor request | Test the web app to ensure that donor can track his/her donation request after making request to donate blood at hospital | 1. Launch the web app  2. Navigate to the Track Application after making a donation request successfully.  3. Check the status.  4. Return. | User should see his/her request and status | as expected | pass |
| T-002 | Book slot for donate blood | Test the web app to ensure that donor, whose donation application is accepted can book slot | 1. Launch the web app.  2. Navigate to the Track application after making a donation request successfully.  3. Check the status.  4. If accepted then click button book slot  5. Choose the date from the calendar.  6. Return | User should book the date for donating blood | as expected | pass |
| T-003 | Book slot for donate blood | Test the web app to ensure that donor, whose  donation application is rejected can not book slot | 1. Launch the web app.  2. Navigate to the Track  application after making a donation request successfully.  3. Check the status.  4. If rejected then you could not see the button.  5. Return | User should not book the date | as expected | pass |
| **6 - Post event: Hospitals should be able to post events on the web app.** | | | | | | |
| T-001 | Valid details to post an event | Test the web app to ensure that the hospital is able to post an event | 1. Launch the app.  2. Navigate to Hospital login.  3. Navigate to the post event.  4. Add a photo by choosing a file.  5. Click on upload.  6. Add some details.  7. Click on the post button. | Hospital should post event | as expected | pass |
| T-002 | Valid posts on dashboard of hospital interface | Test the web app to ensure that the posts are visible to all on the dashboard | 1. Launch the app.  2. Navigate to Hospital login.  3. Check the dashboard. | Hospital should be able to see their posts on the dashboard | as expected | pass |
| T-003 | Valid posts on dashboard of the User interface | Test the web app to ensure that the posts are visible to all users on their dashboard | 1. Launch the app.  2. Login the application using user email and password.  3. Check the dashboard. | User should be able to see new posts on their dashboard | as expected | pass |
| **7 - Update application status: Hospital should be able to update donor's application status** | | | | | | |
| T-001 | Valid operation based on accept or deny action | Test the web app to ensure that the accept or deny button works properly to update application status | 1. Launch the web app.  2. Navigate to hospital login.  3. Navigate to update application.  4. Click the Accept button. | The donor application should be marked accepted. | as expected | pass |
| T-002 | Valid operation based on  accept or deny action | Test the web app to ensure that the accept or deny button works properly to update application status. | 1. Launch the web app.  2. Navigate to hospital login.  3. Navigate to update application.  4. Click the deny button. | The donor application should be marked denied | as expected | pass |
| T-003 | The action should be reflect on user interface | Test the web app to ensure that the action of accept or deny the application shows user updated application status | 1. Launch the web app.  2. Navigate to user login.  3. Navigate to track applications.  4. Check the status.  5. If accepted then I should be able to book a date.  6. else application status will be denied. | 1. The donor is able to book a slot if status is accepted.  2. The donor can see if the application is rejected by the hospital. | as expected in both the cases | pass |
| **8 - Appointment list : Hospitals should be able to see appointments of the selected date.** | | | | | | |
| T-001 | View valid appointments | Test the web app to ensure that the hospital should be able to view appointments of selected dates and confirm with the user. | 1. Launch the web app.  2. Navigate to Hospital login.  3. Navigate to appointments.  4. Select a date.  5. click the button show appointment. | The hospital should be able to see the donor list and details who are going to donate blood on that particular day | as expected | pass |
| T-002 | Valid appointments of current day | Test the web app to ensure that the hospital should be able to view appointments of current day by default. | 1. Launch the web app.  2. Navigate to hospital login  3. Navigate to appointments.  4. Check the appointments. | The hospital should be able to see appointments of the current day by default. | Without selecting a date, it does not show appointments of current day | fail |
| **9 - Signout: User should be able to sign out from the web app.** | | | | | | |
| T-001 | Signout - when login is done with email and password | Test the web app to ensure that the user is able to sign out from the app  (Login is done with user email and password) | 1. Launch the web app.  2. Navigate to User login.  3. Login with email and password.  4. Click on the signout button. | The user should be able to sign out from the web app and navigate to the home page. | User signin is not redirected to the dashboard.  Not able to click signout button | fail |
| T-002 | Signout - when login is done with google account | Test the web app to ensure that the user is able to sign out from the app  (Login is done with google account) | 1. Launch the web app.  2. Navigate to User login.  3. Login with google account.  4. Click on the signout button. | The user should be able to sign out from the web app and navigate to the home page. | as expected | pass |
| **10 - Signout: Hospital should be able to sign out from the web app.** | | | | | | |
| T-001 | Signout - Hospital interface | Test the web app to ensure that the hospital is able to logout from the web app. | 1. Launch the web app.  2. Navigate to Hospital login.  3. Login with licence number and password.  4. Click on the signout button. | The hospital should be able to Logout from the web app and navigate to the home page. | Navigated to the home page but signout is not done. | fail |

**5. Hardware requirements**

The basic hardware requirements would be a complete working computer system or a laptop and a stable internet connection through wi-fi router or any other internet service provider devices.

**6. Environment Requirements**

**6.1 Main frame**

To be able to run the web application based Lifeline, the minimum requirements of the hardware are : a computer device that supports a web browser. While the browser should support the latest version of HTML and CSS and active internet connection. This will be the mainframe requirement.

**6.2 Workstation**

The minimum workstation requirements would mainly be minimum 1 GHz 64-bit (x64) processor; 2 GHz recommended for improved performance. Minimum 2 GB of RAM; 8 GB recommended for improved performance.

**7. Test Schedule**

|  |  |  |
| --- | --- | --- |
| **Task name** | **Date** | **Comments** |
| Review Requirements document | 1/04/2021 | Reviewing the requirements gathered from various stakeholders |
| Test planning | 2/04/2021 | Deciding the approach to be followed for testing |
| Developing test cases | 4/04/2021 | Creating test cases in excel sheet |
| Reviewing the test cases (Login and signup module) | 5/04/2021 | Reviewed whether the test cases met all the functional requirements or not |
| Run the test cases and verifying the output | 6/04/2021 | Running the different test cases and Checking the result of each test case (pass/fail) |
| Reviewing the test cases (donor module) | 7/04/2021 | Reviewed whether the test cases met all the functional requirements or not |
| Run the test cases and verifying the output | 9/04/2021 | Running the different test cases and Checking the result of each test case (pass/fail) |
| Reviewing the test cases (receiver module) | 13/04/2021 | Reviewed whether the test cases met all the functional requirements or not |
| Run the test cases and verifying the output | 15/04/2021 | Running the different test cases and Checking the result of each test case (pass/fail) |
| Reviewing the test cases (hospital module) | 19/04/2021 | Reviewed whether the test cases met all the functional requirements or not |
| Run the test cases and verifying the output | 23/04/2021 | Running the different test cases and Checking the result of each test case (pass/fail) |
| Functional testing | 1/05/2021 | Testing the module functionality using appropriate test cases made |
| Reviewing the test cases result | 2/05/2021 | Checking the result of each test case (pass/fail) |