

# Software Engineering Assignment- 06

## Test Cases Document

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Software testing is an activity to check whether the actual results match the expected results and to ensure that the software system is defect free.

It involves execution of a software component or system component to evaluate one or more properties of interest. Software testing also helps to identify errors, gaps or missing requirements in contrary to the actual requirements. It can be either done manually or using automated tools.

Some prefer saying Software testing as a white box and Black Box Testing.

It can also be stated as the process of validating and verifying that a software program or application or product meets the business and technical requirements that guided its design and development.

### Test Case #1: Verifying Donor Registration Details

Test Focus	Test Description	Pre/ Post Conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Results
Registration functionality	To verify donor registration based on providing valid credentials	<u>Pre-Condition:-</u> All the form fields must adhere to form constraints	1. Open Blood Bank Management System through browser 2. Click on “Donor Registration” tab. 3. Enter the details 4. Click on “Register”	Password and Confirm Password match and are correct	Pass-Registered Successfully	Pass-Registered Successfully	Pass
				Password and Confirm Password match but are wrong	Fail-Registration Unsuccessful	Fail-Registration Unsuccessful	Pass
				Password and Confirm Password do not match and are wrong	Fail-Registration Unsuccessful	Fail-Registration Unsuccessful	Pass
				Either Password or Confirm Password is correct but do not match.	Fail-Registration Unsuccessful	Fail-Registration Unsuccessful	Pass

## Test Case #2: Send Request for Blood Donation

Test Focus	Test Description	Pre/ Post Conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Results
Request functionality	To authorize a blood request based on providing valid credentials	<u>Pre-Condition:-</u> All the form fields must adhere to form constraints	1. Open Blood Bank Management System through browser 2. Click on “Send Request” tab. 3. Enter the details 4. Click on “Request”	No of units > threshold and wrong email id.	Fail-Request Unsuccessful	Fail-Request Unsuccessful	Pass
				No of Units > threshold and correct email id.	Fail-Request Unsuccessful	Fail-Request Unsuccessful	Pass
				No of Units < threshold and wrong email id.	Fail-Request Unsuccessful	Fail-Request Unsuccessful	Pass
				No of Units < threshold and correct email id.	Pass-Requested Successfully	Pass-Requested Successfully	Pass

## Test Case #3: Donor Login

Test Focus	Test Description	Pre/ Post Conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Results
Login functionality	To authorize login based on valid credentials provided by the donor.	<u>Pre-Condition:-</u> All the form fields must adhere to form constraints	1. Open Blood Bank Management System through browser 2. Click on “Donor Login” tab. 3. Enter the details 4. Click on “Login”	Correct Email Correct Password	Pass-User logged in	Pass-User logged in	Pass
				Correct Email Wrong Password	Fail-Login failed.	Fail-Login Failed.	Pass
				Wrong Email Correct Password	Fail-Login Failed.	Fail-Login Failed.	Pass
				Wrong Email Wrong Password	Fail-Login Failed.	Fail-Login Failed.	Pass

## Test Case #4: Change Donor Password

Test Focus	Test Description	Pre/ Post Conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Results
Change Password functionality	To authorize password change based on valid credentials provided by the donor.	<u>Pre-Conditions:-</u>  All the form fields must adhere to form constraints.  Donor must be logged in.	1. Open Blood Bank Management System through browser. 2. Click on “Donor Login” tab. 3. Enter credentials. 4. Click on “Login” 5. Click on Change Password tab. 6. Enter details. 7. Click on “Change”	Correct Old Password and New Password and Confirm Password match.	Pass-Update Database with new password	Pass-Update Database with new password	Pass
				Correct Old Password But New Password and Confirm Password do not match.	Fail-No updation of Database with new password	Fail-No updation of Database with new password	Pass
				Wrong Old Password and New Password and Confirm Password match.	Fail-No updation of Database with new password	Fail-No updation of Database with new password	Pass
				Wrong Old Password and New Password and Confirm Password do not match.	Fail-No updation of Database with new password	Fail-No updation of Database with new password	Pass

## Test Case #5: Admin Login-

Test Focus	Test Description	Pre/ Post Conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Results
Login functionality	To authorize login based on valid credentials provided by the admin.	<u>Pre-Condition:-</u>  All the form fields must adhere to form constraints	1. Open Blood Bank Management System Admin Section through browser. 2. Enter the details 3. Click on “Login”	Correct username Correct Password	Pass-User logged in.	Pass-User logged in.	Pass
				Correct username Wrong Password	Fail-Login failed.	Fail-Login Failed.	Pass
				Wrong username Correct Password	Fail-Login Failed.	Fail-Login Failed.	Pass
				Wrong username Wrong Password	Fail-Login Failed.	Fail-Login Failed.	Pass

## Test Case #6: Adding of Users by Admin

Test Focus	Test Description	Pre/ Post Conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Results
Add User functionality	To authorize adding of users based on valid credentials provided by the admin.	<u>Pre-Conditions:-</u>  All the form fields must adhere to form constraints.  Admin must be logged in.	1. Open Blood Bank Management System Admin Section through browser. 2. Enter the details 3. Click on “Login” 4. Click on Add users tab. 6. Enter details including type of user. 7. Click on “Save”	Password and Confirm Password match and are correct	Pass-Added user Successfully	Pass-Added user Successfully	Pass
				Password and Confirm Password match but are wrong	Fail-User addition unsuccessful	Fail-User addition unsuccessful	Pass
				Password and Confirm Password do not match and are wrong	Fail-User addition unsuccessful	Fail-User addition unsuccessful	Pass
				Either Password or Confirm Password is correct but do not match.	Fail-User addition unsuccessful	Fail-User addition unsuccessful	Pass

## Test Case #7: Adding of City by Admin

Test Focus	Test Description	Pre/ Post Conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Results
Add City functionality	To authorize adding of city based on valid credentials provided by the admin.	<u>Pre-Conditions:-</u>  All the form fields must adhere to form constraints.  Admin must be logged in.	1. Open Blood Bank Management System Admin Section through browser. 2. Enter the details 3. Click on “Login” 4. Click on “Add City” tab. 6. Enter details. 7. Click on “Save”	All fields are filled and are correct.	Pass-Added city Successfully	Pass-Added city Successfully	Pass
				All fields are not filled.	Fail-City addition unsuccessful	Fail-City addition unsuccessful	Pass
				All fields are filled but are not correct.	Fail-City addition unsuccessful	Fail-City addition unsuccessful	Pass

Test Case #8: Adding of Camp by Admin

Test Focus	Test Description	Pre/ Post Conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Results
Add Camp functionality	To authorize adding of camp based on valid credentials provided by the admin.	<u>Pre-Conditions:-</u>	1. Open Blood Bank Management System Admin Section through browser. 2. Enter the details 3. Click on “Login” 4. Click on “Add Camp” tab. 6. Enter details. 7. Click on “Save”	All fields are filled and are correct.	Pass-Added camp Successfully	Pass-Added camp Successfully	Pass
		All the form fields must adhere to form constraints.		All fields are not filled.	Fail-Camp addition unsuccessful	Fail-Camp addition unsuccessful	Pass
		Admin must be logged in.		All fields are filled but are not correct.	Fail-Camp addition unsuccessful	Fail-Camp addition unsuccessful	Pass