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	Pre/ Post	Test Steps	Test Data	Expected	Actual	Test
	Description	Conditions			Results	Results	Results
Registration functionality	To verify donor registration based on providing valid credentials	Pre-Condition:- 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 Password and Confirm Password match but are wrong	Pass- Registered Successfully Fail- Registration Unsuccessful	Pass- Registered Successfully Fail- Registration Unsuccessful	Pass 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	Pre/ Post	Test Steps	Test Data	Expected	Actual	Test
	Description	Conditions			Results	Results	Results
Request functionality	To authorize a blood request based on providing valid	Pre- Condition:- All the form fields must adhere to	1. Open Blood Bank Management System through browser 2. Click on "Send Request" tab.	No of units > threshold and wrong email id.	Fail- Request Unsuccessful	Fail- Request Unsuccessful	Pass
	credentials	form constraints	3. Enter the details 4. Click on "Request"	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	Pre/ Post	Test Steps	Test Data	Expected	Actual	Test
	Description	Conditions			Results	Results	Results
Login	To authorize	<u>Pre-</u>	1. Open Blood	Correct Email	Pass-	Pass-	Pass
functionality	login based on	Condition:-	Bank Management	Correct	User logged in	User logged in	
	valid	All the form	System through	Password			
	credentials	fields must	browser				Pass
	provided by the	adhere to	2. Click on "Donor	Correct Email	Fail-	Fail-	
	donor.	form	Login" tab.	Wrong	Login failed.	Login Failed.	
		constraints	3. Enter the details	Password			
			4. Click on "Login"				
				Wrong Email	Fail-	Fail-	Pass
				Correct	Login Failed.	Login Failed.	
				Password			
				Wrong Email	Fail-	Fail-	Pass
				Wrong	Login Failed.	Login Failed.	
				Password	_		

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	Pre-Conditions:- All the form fields must adhere to	1. Open Blood Bank Management System through browser. 2. Click on "Donor Login"	Correct Old Password and New Password and Confirm Password match.	Pass- Update Database with new password	Pass- Update Database with new password	Pass
	donor.	form constraints. Donor must be logged in.	tab. 3. Enter credentials. 4. Click on "Login" 5. Click on Change Password tab.	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
			6. Enter details. 7. Click on "Change"	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	Pre/ Post	Test Steps	Test Data	Expected	Actual	Test
	Description	Conditions			Results	Results	Results
Login	To authorize	Pre-	1. Open Blood	Correct username	Pass-	Pass-	Pass
functionality	login based on	Condition:-	Bank Management	Correct Password	User logged	User logged	
	valid		System Admin		in.	in.	
	credentials	All the form	Section through	Correct username	Fail-	Fail-	Pass
	provided by	fields must	browser.	Wrong Password	Login failed.	Login Failed.	
	the admin.	adhere to form	2. Enter the details				
		constraints	3. Click on	Wrong username	Fail-	Fail-	Pass
			"Login"	Correct Password	Login Failed.	Login Failed.	
				Wrong username	Fail-	Fail-	Pass
				Wrong Password	Login Failed.	Login Failed.	

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

Test Case #8: Adding of Camp by Admin

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