Converge

SOFTWARE ENGINEERING(IT-314)

Prof. Saurabh Tiwari

Group - 23

- 202301209- Gori Faran Firozbhai (Leader)
- 202301224- Prajapati Anushka Maheshbhai
- 202301244- Atharv Shah
- 202301213- Kalriya Prayag Jagdishbhai
- 202301251- Vasani Devarsh Chintanbhai
- 202301243- Vadaviya Chaitri Hareshkumar
- 202301212- Patel Ishti Upendra
- 202301211- Rathod Harita Rajeshbhai
- 202301228- Patel Naitikkumar Dilipbhai
- 202301242- Tejani Charvik Bipinbhai

Blackbox testing - a software testing technique where the internal structure, code, and implementation of the system are not known to the tester. Instead, the tester evaluates the software by providing inputs and analyzing the corresponding outputs, focusing solely on the functionality of the application. This technique ensures that the software meets the specified requirements and behaves as expected in various scenarios. It is particularly useful for validating user interfaces, APIs, and other external-facing components of the system.

Equivalence class partitioning - a complementary method often used in blackbox testing to reduce the number of test cases while maintaining coverage. It involves dividing the input data into partitions or "classes," where each class represents a set of inputs that are expected to produce similar results. By testing just one representative from each equivalence class, testers can efficiently cover a wide range of input scenarios without redundancy. This approach enhances test efficiency and helps identify defects that may arise from specific input conditions.

1) Login Page

Equivalence Class ID's

ECIDs	Description
EC001	Registered Username
EC002	Correct password
EC003	Registered email
EC004	Incorrect Username (the username doesn't exist)
EC005	Incorrect Password
EC006	Unregistered Email address
EC007	Invalid Email address (without an @)
EC008	Empty username/email
EC009	Empty Password
EC010	Correct OTP for forgot password
EC011	Incorrect OTP for forgot password
EC012	Select registered email for Google login
EC013	Select unregistered email for Google login

TEST CASES

Scenario TID	Scenario Description	Test Case ID	Pre Condition	Steps to Execute	Expected Result	Actual Result	Status	ECIDs covered
SID_1	Login Scenario with Valid User	Test_Login_1	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Enter username "TestingUserOne" and password "TestingUser@1". 3. Click Login.	Login should work with valid credentials and dashboard should appear.	Login is working with valid credentials and dashboard appears.	Pass	EC001, EC002
		Test_Login_2	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Enter email "202301211@dau.ac.in" and password "TestingUser@1". 3. Click Login.	Login should work with valid credentials and dashboard should appear.	Login is working with valid credentials and dashboard appears.	Pass	EC002, EC003
		Test_Login_3	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Click Continue with Google. 3. Select registered email address and click continue.	Login should work with registered email and dashboard should appear.	Login is working with registered email and dashboard appears.	Pass	EC012
SID_2	Login Scenario with Invalid User.	Test_Login_4	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Enter username "TestingUserOne" and password "TestingUser1@". 3. Click Login.	Should display error: "Invalid Credentials"	Displaying error message: "Invalid credentials"	Pass	EC001, EC005
		Test_Login_5	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Enter username "TestingUserOn" and password "TestingUser@1". 3. Click Login.	Should display error: "Invalid Credentials"	Displaying error message: "Invalid credentials"	Pass	EC004, EC002
		Test_Login_6	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Enter email address "abc@gmail.com" (this email doesn't exist in system) and enter password	Should display error: "Invalid Credentials"	Displaying error message: "Invalid credentials"	Pass	EC006, EC002

				Steps	Expected Result	Actual Result	Status	
				"TestingUser@1". 3. Click Login.				
		Test_Login_7	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Enter email address "abcgmail.com" (this email doesn't exist in system) and enter password "TestingUser@1". 3. Click Login.	Should display error: "Invalid Credentials"	Displaying error message: "Invalid credentials"	Pass	EC007, EC002
		Test_Login_8	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Enter email address "202301211@dau.ac.in" and password "TestingUser1@". 3. Click Login.	Should display error: "Invalid Credentials"	Displaying error message: "Invalid credentials"	Pass	EC003, EC005
SID_6	Login Scenario with Forgot Password and Valid User	Test_Login_9	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Click Forgot Password. 3. Enter email adress "202301211@dau.ac.in" in the Forgot Password window. 4. Click Send OTP. 5. Enter recieved OTP. 6. Click Validate OTP. 7. Enter New password: "Testing@1User" and enter the same password in Confirm Password	Password should be reset.	Password is reset.	Pass	EC003, EC010
SID_7	Login Scenario with Forgot Password and Invalid User	Test_Login_10	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Click Forgot Password. 3. Enter email adress "202301211@dau.ac.in" in the Forgot Password window. 4. Click Send OTP. 5. Enter incorrect OTP. 6. Click Validate OTP.	Should display error: "Invalid OTP"	Displaying error message: "Invalid OTP"	Pass	EC011
		Test_Login_11	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Click Forgot Password. 3. Enter email address "abc@gmail.com" in Forgot Password	Should display error: "No account found with this email."	Displaying error message: "No account found with this email."	Pass	EC006

				window. 4. Click Send OTP.			
		Test_Login_12	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Click Forgot Password. 3. Enter email address "abcgmail.com" in Forgot Password window. 4. Click Send OTP.	Should display validation message: "Please enter valid email."	Displaying validation message: "Please include an '@' in the email address. abcgmail.com is missing an '@'."	Pass	EC007
		Test_Login_13	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Click Forgot Password. 3. Click Send OTP.	Should display validation message: "Please fill out this field."	Displaying Validation message: "Please fill out this field."	Pass	EC008
		Test_Login_14	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Leave username/email field blank and enter Password "Testing@1User". 3. Click Login.	Should display validation message: "Please fill out this field."	Displaying Validation message: "Please fill out this field."	Pass	EC008
		Test_Login_15	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Enter username "TestingUserOne" and leave password field blank. 3. Click Login.	Should display validation message: "Please fill out this field."	Displaying Validation message: "Please fill out this field."	Pass	EC009
		Test_Login_16	<Link to app> is loaded and user is registered.	1. Navigate to the Application. 2. Click Continue with Google. 3. Select unregistered email address and click continue.				EC013

2) Register/Sign up Page

Variable ID	Variable description	Options for each variable

V01	First Name	Valid - V				
V02	Last Name	Valid - V				
V03	Username	Valid (no all numbers, no all special characters, no leading spaces, doesn't start with a number) - V	Empty - E	Starts with a number - SN	Contains all numbers - AN	Contains all special characters - S
V04	Email address	Valid (conatins '@') - V	Empty - E	Doesn't contain '@' - Z	Invalid Domain - InD	
V05	Password	Valid (length >=8, <=15) - V	Minimum characters - 8 - Min	Empty - E		
V06	Confirm password	Valid (same as password) - V	Invalid (different from password) - I	Empty - E		
V07	Enter OTP	Valid (recieved OTP) - V	Incorrect OTP - X	Characters other than numbers - NoN	Empty - E	
V08	Send OTP	Selection Variable - SV				
V09	Verify and Register	Selection Variable - SV				
V10	Press Enter	Selection Variable - SV				

Test cases

Test Case ID	Pre Condition	Value	Steps to Execute	Expected Result	Actual Result	Status	Fix	Result after fix	Misc (Comments)
TC1	<Link to app> is loaded.	V01: Testing V02: UserOne V03: TestingUserOne V04: 202301211@dau.ac.in V05: TestingUser@1 V06: TestingUser@1 V07: [Valid OTP entered] V08: Clicked V09: Clicked V10: Not used	1. Navigate to the Application. 2. Click on "Create Now". 3. Enter First Name, Last Name, Username, email, password and enter the Confirm Password. 4. Click on Send OTP. 5. Enter the OTP recieved on the entered email. 6. Click "Verify & Register".	Registering should work with valid credentials.	Registering is working with valid credentials.	Pass	-	-	
TC2	<Link to app> is loaded.	V01: Testing V02: UserTwo V03: TestingUserTwo V04: 202301211@dau.ac.in V05: Testing V06: Testing V07: [OTP not entered] V08: Clicked V09: Not clicked V10: Not used	1. Navigate to the Application. 2. Click on "Create Now". 3. Enter First Name, Last Name, Username, email, password and enter the Confirm Password. 4. Click on Send OTP.	Registering should not work.	Displaying error message "Password must be 8 characters long." and registering didn't work.	Pass	-	-	
TC3	<Link to app> is loaded	V01: Testing V02: UserTwo V03: TestingUserTwo V04: 202301211@dau.ac.in V05: TestingUser V06: TestingUser V07: [OTP not entered] V08: Clicked V09: Not clicked V10: Not used	1. Navigate to the Application. 2. Click on "Create One Now". 3. Enter First Name, Last Name, Username, email, password and Confirm Password. 4. Click on Send OTP.	Registering should not work.	Displaying error message "Email already exists." and registering didn't work.	Pass	-	-	
TC4	<Link to app> is loaded.	V01: Testing V02: UserTwo V03: TestingUserTwo V04: harita34rathod@gmail.com V05: TestingUser@2	1. Navigate to the Application. 2. Click on "Create One Now". 3. Enter First Name, Last Name, Username, email, password and Confirm Password. 4. Click on Send OTP.	Registering should not work.	Displaying error message "Invalid OTP." and registering didn't work.	Pass	-	-	

		V06: TestingUser@2 V07: [Incorrect OTP entered] V08: Clicked V09: Clicked V10: Not used	5. Enter incorrect OTP. 6. Click Verify and Register.						
TC5	<Link to app> is loaded .	V01: Testing V02: UserTwo V03: 2TestingUser V04: harita34rathod V05: TestingUser@2 V06: TestingUser@2 V07: [OTP not entered] V08: Clicked V09: Not clicked V10: Not used	1. Navigate to the Application. 2. Click on "Create One Now". 3. Enter First Name, Last Name, Username, email, password and Confirm Password. 4. Click on Send OTP.	Should display error after clicking send OTP and registering should not work.	OTP is sent and system is prompting user to enter recieved OTP, after entering OTP, registering has not worked.	Fail	Not yet fixed	-	Error message regarding invalid username was being showed after the recieved OTP is sent before the fix. After the fix, the error is showed on clicking Verify OTP
TC6	<Link to app> is loaded .	V01: Testing V02: UserTwo V03: 234 V04: harita34rathod@gmail.com V05: TestingUser@2 V06: TestingUser@2 V07: [Valid OTP entered] V08: Clicked V09: Clicked V10: Not used	1. Navigate to the Application. 2. Click on "Create One Now". 3. Enter First Name, Last Name, Username, email, password and Confirm Password. 4. Click on Send OTP. 5. Enter valid OTP. 6. Click Verify & Register.	Registering should not work.	Displaying error message: "Username cannot start with a number or contain all numbers." and registering didn't work.	Pass	-	-	
TC7	<Link to app> is loaded .	V01: Testing V02: UserTwo V03: TestingUserTwo V04: harita34rathod@gamil.com V05: TestingUser@2 V06: TestingUser2@ V07: [OTP not entered] V08: Clicked V09: Not clicked V10: Not used	1. Navigate to the Application. 2. Click on "Create One Now". 3. Enter First Name "Testing", Last Name "UserTwo", Username "TestingUserTwo", email "harita34rathod@gamil.com", password "TestingUser@2" and enter "TestingUser2@" in Confirm Password. 4. Click on Send OTP.Enter First Name, Last Name, Username, email, password and Confirm Password.	Registering should not work.	Displaying error message: "Passwords do not match." and registering didn't work.	Pass	-	-	
TC8	<Link to app> is	V01: [empty] V02: [empty] V03: [empty] V04: [empty]	1. Navigate to the Application. 2. Click on "Create One Now".	Registering should not work.	Displaying validation message for First	Pass	-	-	

| | loaded. | V05: [empty]
V06: [empty]
V07: [OTP not entered]
V08: Clicked
V09: Not clicked
V10: Not used | 3. Leave all fields empty and directly click Send OTP. | | Name: "Please fill out this field." and registering didn't work. | | | | |
| TC9 | <Link to app> is loaded. | V01: Testing
V02: [empty]
V03: TestingUserTwo
V04: harita34rathod@gamil.com
V05: TestingUser@2
V06: TestingUser@2
V07: [OTP not entered]
V08: Clicked
V09: Not clicked
V10: Not used | 1. Navigate to the Application.
2. Click on "Create One Now".
3. Enter First Name, Last Name, Username, email, password and Confirm Password.
4. Click on Send OTP. | Registering should not work. | Displaying error message for epty field: "Please fill out this field." and registering didn't work. | Pass | - | - | |

3) Project creation

Equivalence Class ID's

ECID	Description
EC001	Valid Project Name
EC002	Adding Team Member
EC003	Adding Existing Team Member
EC004	Click Add
EC005	Press Enter
EC006	Empty Project Name field
EC007	Empty Description field
EC008	Empty Team members field

	EC008	Remove member using (x) button
	EC009	Blank Project Name - " "
	EC010	Invalid Project Name

Test cases

Scenario TID	Scenario Description	Test Case ID	Pre Condition	Steps to Execute	Expected Result	Actual Result	Status	ECIDs covered	Fix	Result after fix
SC1	Creating Project	Test_PC_1	\<Link to app> is loaded, user is registered and logged in.	1. Click + New Project. 2. Enter Project Name "Test Project - 1", Description "This project is created to test successful project creation." and Team members "TestingUserTwo" and click add and then enter "TestingUserOne" and press Enter. 3. Click Create Project.	Project should be created successfully, the user should be redirected to the dashboard and the screen should display the project that was just created.	Project is created successfully, the user is redirected to the dashboard and the screen is displaying the project that was just created.	Pass	EC001	-	-
		Test_PC_2	\<Link to app> is loaded, user is registered and logged in.	1. Click Create Project. 2. Enter Project Name "Test Project - 2", Description "Testing project Team member field empty". 3. Click Create Project.	Project should be created successfully, the user should be redirected to the dashboard and the screen should display the project that was just created.	Project is created successfully, the user is redirected to the dashboard and the screen is displaying the project that was just created.	Pass	EC010	-	-
		Test_PC_3	\<Link to app> is loaded, user is registered and logged in.	1. Click Create Project. 2. Enter Project Name "Test Project - 2", Description "" and Team members "TestingUserTwo".	Should display validation message: "Please fill all required fields."	Displaying validation message: "Please fill all required fields: Project Name and Description."	Pass	EC007	-	-

				3. Click Create Project.						
		Test_PC_4	<Link to app> is loaded, user is registered and logged in.	1. Click Create Project. 2. Enter Project Name "", Description "Testing project name field empty" and Team members "TestingUserTwo". 3. Click Create Project.	Should display validation message: "Please fill all required fields."	Displaying validation message: "Please fill all required fields: Project Name and Description."	Pass	EC006	–	–
		Test_PC_5	<Link to app> is loaded, user is registered and logged in.	1. Click Create Project. 2. Enter Project Name "Test Project - 3", Description "This project is created to test functionality of (x) button to remove added team member from list" and Team members "TestingUserTwo". 3. Click (x) button.	The Team member should be removed from the list.	The Team member is removed form the list.	Pass	EC008	–	–
		Test_PC_6	<Link to app> is loaded, user is registered and logged in.	1. Click Create Project. 2. Enter Project Name "Test Project - 3", Description "This project is created to test adding the creator of project.", Team members "TestingUserThree" and then click Add.	Should display validation message: "You cannot add yourself."	Displaying validation message: "You cannot add yourself as a team member. You are already the team leader."	Pass	EC003	–	–
		Test_PC_7	<Link to app> is loaded, user is registered and logged in.	1. Click Create Project. 2. Enter Project Name "Test Project - 3", Description "This project is created to test adding an already added member", Team members "TestingUserTwo", click Add, enter "Testing UserTwo" and then add click .	Should display validation message: "This user is already added to the team."	Displaying validation message: "This user is already added to the team."	Pass	EC003	–	–
		Test_PC_8	<Link to app> is loaded, user is registered	1. Click Create Project. 2. Enter Project Name " ", Description "This	Should display validation message: "Please fill	Displaying validation message: "Please fill all required	Pass	EC010	–	–

				project is created to test invalid project name.", Team members "TestingUserTwo" and click Add. 3. Click Create Project	required fields."	fields: Project Name and Description."				
		Test_PC_9	\<Link to app> is loaded, user is registered and logged in.	1. Click Create Project. 2. Enter Project Name "@#$", Description "This project is created to test invalid project name.", Team members "TestingUserTwo" and click Add. 3. Click Create Project	Should display validation message: "Please enter valid Project Name."	Project is created successfully, the user is redirected to the dashboard and the screen is displaying the project that was just created.	Fail	EC010	Not yet fixed	-
		Test_PC_10	\<Link to app> is loaded, user is registered and logged in.	1. Click Create Project. 2. Enter Project Name "1234", Description "This project is created to test invalid project name.", Team members "TestingUserTwo" and click Add. 3. Click Create Project	Should display validation message: "Please enter valid Project Name."	Project is created successfully, the user is redirected to the dashboard and the screen is displaying the project that was just created.	Fail	EC010	Not yet fixed	-

4) Dashboard

Var ID	Input Variable	Options for each variable			
		Valid (all characters allowed) and that project exists - VE	Valid (all characters allowed) but that project doesn't exist - VDE	Empty - E	Valid but consists a portion of existing project - VP
V01	Search query				
V02	New Project click	click - C			
V03	Project name click	click - C			
V04	Notification icon	click - C			
V05	Profile icon	click - C			
V06	View Profile	click – C			
V07	Settings	click – C			
V08	Help & Support	click – C			
V09	Logout	click – C			
V10	Settings icon	click - C			
V11	Show/Hide details	toggle - T	spam clicking - S		
V12	User's post	Team leader - L	Team member - M	Invitation Pending - IP	
V13	Analytics	Click - C			

Test Case ID	Variable	Value
TC1	V01	VE
TC2	V01	VDE
TC3	V01	E
TC4	V01	VP
TC5	V02	C
TC6	V03	C
TC7	V04	C
TC8	V05	C
TC9	V06	C
TC10	V07	C
TC11	V08	C
TC12	V09	C
TC13	V10	C
TC14	V11	T
TC15	V11	S
TC16	V12	L
TC17	V12	M
TC18	V12	IP
TC19	V13	C

Test Cases

Scenario TID	Scenario Description	Test Case ID	Pre Condition	Value	Steps to Execute	Expected Result	Actual Result	Status	Fix	Result after fix	Misc (Comments)
SC1	Searching project	TC1	<Link to app> is loaded, user is registered, logged in (as TestingUserThree)	V01: Test Project - 1	1. Navigate to the search bar.	Only the project with that value	Only the project with that value is listed.	Pass	-	-	

			and on the dashboard.		2. Enter the value in it.	should be listed					
		TC2	<Link to app> is loaded, user is registered, logged in (as TestingUserThree) and on the dashboard.	V01: Num	1. Navigate to the search bar. 2. Enter the value in it.	No project should be listed.	No project is listed.	Pass	-	-	
		TC3	<Link to app> is loaded, user is registered, logged in and on the dashboard.	V01:	1. Navigate to the search bar. 2. Enter the value in it.	All projects should be listed	All projects are listed.	Pass	-	-	The screen says "You are not a part of any project yet." while it should say "No such project found.". However the basic requirement is fulfilled and the test case is declared passed.
		TC4	<Link to app> is loaded, user is registered, logged in (as TestingUserThree) and on the dashboard.	V01: Test	1. Navigate to the search bar. 2. Enter the value in it.	All the projects with "Test" (or its variation in terms of capital or small letters) in them should be listed.	All the projects with "Test" in them are listed.	Pass	-	-	
SC2	Clicking "+ New Project"	TC5	<Link to app> is loaded, user is registered, logged in and on the dashboard.	V02: click	1. Click "+ New Project"	Dialogue box for "+ New Project" should open.	Dialogue box for "+ New Project" is opening.	Pass	-	-	
SC3	Clicking name of the project.	TC6	<Link to app> is loaded, user is registered, logged in and on the dashboard.	V03: click	1. Click the name of the project.	A new page with options for project and task should open.	A new page with options for project and task is opening.	Pass	-	-	

SC4	Clicking Notifications icon	TC7	<Link to app> is loaded, user is registered, logged in and on the dashboard.	V04: click	1. Click the notifications icon.	A new page with all notifications should open.	A new page with all notifications is opening.	Pass	-	-	
SC5	Clicking Profile icon	TC8	<Link to app> is loaded, user is registered, logged in and on the dashboard.	V05: click	1. Click the Profile icon.	An account menu should open.	An account menu is opening.	Pass	-	-	
		TC9	<Link to app> is loaded, user is registered, logged in and on the dashboard.	V06: click	1. Click the Profile icon. 2. Click View Profile.	A new page with user profile should open.	A new page with user profile is opening.	Pass	-	-	
		TC10	<Link to app> is loaded, user is registered, logged in and on the dashboard.	V07: click	1. Click the Profile icon. 2. Click Settings.	A new page with all Account settings should open.	A new page with all account settings is opening.	Pass	-	-	
		TC11	<Link to app> is loaded, user is registered, logged in and on the dashboard.	V08: click	1. Click the Profile icon. 2. Click Help & Support.	A new page with Help & support options should open.	A new page with Help & support options is opening.	Pass	-	-	
		TC12	<Link to app> is loaded, user is registered, logged in and on the dashboard.	V09: click	1. Click the Profile icon. 2. Click Logout.	The system should log user out and show login page.	The system has logged user out and is showing login page.	Pass	-	-	
SC6	Clicking settings icon	TC13	<Link to app> is loaded, user is registered, logged in and on the dashboard.	V10: click	1. Navigate to the search bar. 2. Click the settings icon.	A new page with all Account settings should open.	A new page with all account settings is opening.	Pass			
		TC15	<Link to app> is loaded, user is registered, logged in and on the dashboard.	V11: click continuously.	1. Navigate to the search bar. 2. Click the "View Details" field of the project continuously.	On clicking "View Details", details should appear and on clicking "Hide Details", those details should disapear as	Expected Result is displayed.	Pass	-	-	

						the user toggles.				
SC8	Entries based on credentials of the user	TC16	<Link to app> is loaded, user is registered and logged in as TestingUserThree and on the dashboard.	V12: (Login as TestingUserThree)	1. Locate Test Project - 1 and observe the entry.	The entry should say Team Leader.	The entry is saying Team Leader.	Pass	-	-
		TC17	<Link to app> is loaded, user is registered and logged in as TestingUserTwo, is invited to and has accepted invitation to Test Project -1 and on the dashboard.	V12: (Login as TestingUserTwo)	1. Locate Test Project - 1 and observe the entry.	The entry should say Team member.	The entry is saying Team member.	Pass	-	-
		TC18	<Link to app> is loaded, user is registered and logged in as TestingUserOne, is invited to but has not accepted invitation to Test Project -1 and on the dashboard.	V12: (Login as TestingUserOne)	1. Locate Test Project - 1 and observe the entry.	The entry should say Invitation Pending.	The entry is saying Invitation Pending.	Pass	-	-
SC9	Analytics	TC19	<Link to app> is loaded, user is registered, logged in and on the dashboard.	V13: Click	1. Click on Analytics	The analytics page should open	The Analytics page is opening	Pass	-	-

5) Dashboard: Analytics

Variable ID	Input Variable	Options for Each Variable
V01	Analytics Navigation Button	Project Overview
V02	Analytics Navigation Button	Task Workflow Dashboard
V03	Analytics Navigation Button	Team Activity Dashboard
V04	Analytics Navigation Button	File Storage & File Activity Dashboard

Test Case ID	Variable	Value
TC01	V01	Project Overview
TC02	V02	Task Workflow Dashboard
TC03	V03	Team Activity Dashboard
TC04	V04	File Storage & File Activity Dashboard

Scenario TID	Scenario Description	Test Case ID	Precondition	Value	Steps to Execute	Expected Result	Actual Result	Status
SC01	Accessing Project Overview Analytics	TC01	User logged in and on Analytics Hub screen as team leader.	V01 = Project Overview	1. Click "Project Overview" button	Project Overview analytics screen should open	Successfully opens Project Overview screen	Pass
SC02	Accessing Task Workflow Dashboard	TC02	User logged in and on Analytics Hub screen as team leader.	V02 = Task Workflow Dashboard	1. Click "Task Workflow Dashboard" button	Task Workflow Dashboard should open	Successfully opens Workflow Dashboard	Pass
SC03	Accessing Team Activity Dashboard	TC03	User logged in and on Analytics Hub screen as team leader.	V03 = Team Activity Dashboard	1. Click "Team Activity Dashboard" button	Team Activity Dashboard should open	Successfully opens Team Activity screen	Pass
SC04	Accessing File Storage Dashboard	TC04	User logged in and on Analytics Hub screen as team leader.	V04 = File Storage & File Activity Dashboard	1. Click "File Storage & File Activity Dashboard" button	File Storage Analytics should open	Successfully opens File Storage Dashboard	Pass
	Note: Analytics are not being shown for team member							

6) Settings

Variable ID	Input Variable	Options for each variable			
V01	First Name	Valid name	Min length(1)	Max length(30)	Empty
V02	Last Name	Valid name	Min length(1)	Max length(30)	Empty
V03	Enable Email Notifications	Toggle ON / OFF			
V04	Appearance — Dark Mode	Toggle ON / OFF			
V05	Change Password	Valid (>=8)	Invalid (<8)		
V06	Back to Dashboard button	Click – C			

Test Case ID	Variable	Value	
TC1	V01	"test"	
TC2	V02	"" (empty)	
TC3	V03	Toggle ON	
TC4	V04	Toggle OFF	
TC5	V05	Change Password (Invalid)	**(Boundary Value Analysis)**
TC6	V05	Change Password (Valid)	
TC7	V05	Change Password (Valid)	
TC8	V06	Click	

Test Cases

Scenario TID	Scenario Description	Test Case ID	Pre Condition	Value	Steps to Execute	Expected Result	Actual Result	Status	Fix	Result after fix
SC1	User updates First Name and saves changes	TC1	\<Link to app\> is loaded, user is registered and logged in and on Account Settings.	V01	1. Enter First Name as "test". 2. Click Save Changes.	First name should be updated successfully.	First name is not updated. Corresponding message is showed.	Fail	Not yet fixed	-
SC2	Leaving Last Name empty and saving changes	TC2	\<Link to app\> is loaded, user is registered and logged in and on Account Settings.	V02	1. Clear Last Name field. 2. Click Save Changes.	Last name should not be updated.	Last name is not updated. Corresponding message is showed.	Fail	Not yet fixed	-
SC3	Enabling email notifications	TC3	\<Link to app\> is loaded, user is registered and logged in and on Account Settings.	V03: Toggle OFF	1. Switch the toggle to OFF.	Notification preference should be updated and saved.	Notification preference is saved however still recieving notifications in email.	Fail	Not yet fixed	-
SC4	Enable Dark Mode	TC4	\<Link to app\> is loaded, user is registered and logged in and on Account Settings.	V04: Toggle ON	1. Switch Dark Mode to ON.	UI theme should change to dark.	UI theme is changing to dark.	Pass	-	-
SC5	Change Password	TC5	\<Link to app\> is loaded, user is registered and logged in and on Account Settings.	V05: "testing"	1. Click Change password. 2. Enter value.	Password should not change.	Password not changed. System is prompting user to enter an 8 or longer character password.	Pass	-	-
		TC6	\<Link to app\> is loaded, user is registered and logged in and on Account Settings.	V05: "testings"	1. Click Change password. 2. Enter value.	Password should change.	Password changed successfully.	Pass	-	-
		TC7	\<Link to app\> is loaded, user is registered and logged in and on Account Settings.	V05: "TestingUser"	1. Click Change password. 2. Enter value.	Password should change.	Password changed successfully.	Pass	-	-
SC6	Navigating back to Dashboard	TC8	\<Link to app\> is loaded, user is registered and logged in and on Account Settings.	V06: Click	1. Click Back to Dashboard.	User should be directed back to dashboard	User is directed back to dashboard.	Pass	-	-

7) Notifications

All notifications are being displayed, test cases regarding accepting or declining invitations are covered before.

8) Profile

Displays profile, no other input in this page

9) Go to project

<u>Overview:</u>

Variable ID	Input Variable	Options
OV1	Overview tab click	C
OV2	Task count display	integer ≥ 0
OV3	File count display	integer ≥ 0
OV4	Members count display	integer ≥ 0

Test Case ID	Variable	Value
TC_OV1	OV1	C
TC_OV2	OV2	3
TC_OV3	OV3	2
TC_OV4	OV4	0

Scenario ID	Description	Test Case	Precondition	Steps	Expected Result	Actual Result	Status
SC_OV1	Click Overview tab	TC_OV1	User logged in and on the project page	1. Click Overview in sidebar	Overview is displayed	Overview is displayed	Pass
SC_OV2	Verify task count	TC_OV2	Task data exists in DB	1. View Overview count of tasks	Should show correct number	Not showing correct number	Fail
SC_OV3	Verify file count	TC_OV3	Files related to project exist	1. View Overview count of files	Should show correct number	Showing correct number	Pass
SC_OV4	Verify member count	TC_OV4	No members added	1. View Overview count of members	Should show correct number	Showing correct number	Pass

10)   File Screen

Variable ID	Input Variable	Options
FL1	Files tab click	Click - C
FL2	Upload file	Image
FL3	Import from GitHub	Any file
FL4	Download Uploaded file	Click - C

Test Case ID	Variable	Value
TC_FL1	FL1	C
TC_FL2	FL2	Image
TC_FL3	FL2	PDF
TC_FL4	FL3	C
TC_FL5	FL4	C

Scenario ID	Description	Test Case	Precondition	Steps	Expected Result	Actual Result	Status
SC_FL1	Click Files tab	TC_FL1	User logged in and and has clicked go to project.	Click Files	Files screen should open	Files screen is opening.	Pass
SC_FL2	Upload file	TC_FL2	User logged in and and has clicked go to project.	1. Click Upload file. 2. Choose an image to upload.	Chosen file should be uploaded	Chosen file is uploaded.	Pass
		TC_FL3	User logged in and and has clicked go to project.	1. Click Upload file. 2. Choose a PDF to upload.	Chosen PDF should be uploaded.	Chosen file is uploaded.	Pass
SC_FL3	Import from GitHub	TC_FL4	User logged in, has clicked go to project and has an existing repo.	1. Click Import from GitHub	Import should be successful.	Import is successful and file(s) is (are) displayed.	Pass
SC_FL4	Download uploaded file	TC_FL5	User logged in, has clicked go to project and file(s) is(are) uploaded.	1. Click download.	The file should be downloaded.	The file is downloaded.	Pass

11)   Calendar Screen

Variable ID	Input Variable	Options
CL1	Calendar tab click	Click - C
CL2	Connect Google Calendar	Connect using email address
CL3	Open in google calendar	Click - C
CL4	Sync meetings from Google	Click - C

Test Case ID	Variable	Value
TC_CL1	CL1	C
TC_CL2	CL2	C
TC_CL3	CL3	Allow
TC_CL4	CL4	Not connected

Scenario ID	Description	Test Case	Precondition	Steps	Expected Result	Actual Result	Status
SC_CL1	Click Calendar tab	TC_CL1	User logged in and has connected a calendar	Click Calendar	Calendar screen should open with Events scheduled shown.	Calendar screen is opening with Events scheduled shown.	Pass
SC_CL2	Connect Google Calendar button	TC_CL2	User has logged in and has clicked on the calendar, but has not yet connected calendar.	1. Click Connect Google Calendar. 2. Choose account for google calendar and click continue.	Google calendar should connect successfully.	Google calendar was connected successfully	Pass
SC_CL3	Open in google calendar	TC_CL3	User logged in and has connected a calendar	1. Click Open in google calendar.	Google calendar should open.	Google Calendar is opening.	Pass
SC_CL4	Show not connected state	TC_CL4	No calendar linked	1. Click Sync Meetings from Google	Events should sync successfully and display in the designated region.	Events aren't syncing and being displayed in the designated area.	Fail

12) Task

Variable ID	Input Variable	Options for Each Variable
V1	Create Task	Click
V2	Add Dependency mode	Activate / Deactivate
V3	Create dependency via drag	Drag from node (blue dot) to another node
V5	Zoom controls	Zoom In / Zoom Out
V6	Lock workspace	Locked / Unlocked
V7	Create dependency manually	Select Task A → Select Task B
V8	Fullscreen mode	Enter / Exit

Test Case ID	Variable	Value
TC1	V1	Click
TC2	V2	Activate
TC3	V3	Drag to connect tasks
TC4	V5	Zoom In
TC5	V5	Zoom Out
TC6	V6	Locked
TC7	V6	Unlocked
TC8	V8	Click

Scenario TID	Scenario Description	Test Case ID	Precondition	Value	Steps to Execute	Expected Result	Actual Result	Status	Misc. (Comments)
SC1	Creating a task	TC1	User is logged in, has clicked go to project.	Click	1. Click + Create Task. 2. Enter Task Name. 3. Enter Due Date and Time. 4. Assign Task to team member. 5. Click create.	Task node should successfully appear in the task graph	Task node is successfully appearing in the task graph	Pass	Cancel is working as well.
SC2	Adding Dependency	TC2	User is logged in, has clicked go to project and at least 2 tasks exist	Activate	1. Click + Add Dependency 2. Select dependency task and dependent task. 3. Click create.	Dependency should be created and represented by an arrow in the task graph.	Dependency is created and represented by an arrow in the task graph.	Pass	Cancel is working as well.
		TC3	User is logged in, has clicked go to project and at least 2 tasks exist	Drag to add dependency.	1. Drag connector dot from Task A to Task B	Dependency should be created and represented by an arrow in the task graph.	Dependency is created and represented by an arrow in the task graph.	Pass	Due date conflicts when present are being displyed and this beahiour is being blocked.
SC3	Zooming in	TC4	User is logged in, has clicked go to project and is inside Task.	Zoom In	Click + button	Graph view should zoom in	Graph view zooms in.	Pass	
SC4	Zooming out	TC5	User is logged in, has clicked go to project and is inside Task.	Zoom Out	Click – button	Graph view should zooms out	Graph view zooms out.	Pass	
SC5	Locking workspace (freezing movement)	TC6	User is logged in, has clicked go to project and is inside Task.	Lock	Click lock icon (closed padlock)	Tasks cannot be moved by dragging	Tasks are not moved by dragging	Pass	
SC6	Unlocking workspace	TC7	User is logged in, has clicked go to project and is inside Task.	Unlock	Click unlock icon (open padlock)	Tasks can be rearranged normally	Tasks are able to rearrange normally.	Pass	
SC7	Enter fullscreen mode	TC8	User is logged in, has clicked go to project and is inside Task.	Click	Click fullscreen icon	All tasks should be showed in comfortable size	All tasks showed in comfortable size	Pass	

13)   Chat

Variable ID	Input Variable	Options for Each Variable	
V01	Group chat text box	Any character - AC	
V02	Search Message	Existing message - E	Not existing message - NE
V03	Reply to button	Click - C	
V04	Replying in Thread (only)	Any character - AC	
V05	Replying in Thread and Group chat	Any character - AC	
V06	Individual chat	Click - C	
V07	Individual Chat text box	Any character - AC	
V08	File sending (Group+Chat)	Image - I	PDF - P
V09	AI Chat	Enter prompt - EP	
V10	Chat Summary	Click - C	

Test Case ID	Variable	Value
TC01	V01	AC
TC02	V02	E
TC03	V02	NE
TC04	V03	C
TC05	V04	AC
TC06	V05	AC
TC07	V06	C
TC08	V07	AC
TC09	V08	I
TC10	V08	P
TC11	V09	EP
TC12	V10	C

Scenario TID	Scenario Description	Test Case ID	Precondition	Value	Steps to Execute	Expected Result	Actual Result	Status
SC01	Sending message in group chat	TC01	User logged in and inside project chat screen	V01: "Hello"	1. Enter message in text box. 2. Click send.	Chat should send and be received by the group members.	Chat is sent and received by the group members.	Pass
SC02	Searching for a message	TC02	User logged in and inside project chat screen	V02: "Hello"	1. Click search bar. 2. Enter value to search.	User should be directed to the message with that word	User is directed to the message with that word	Pass
		TC03	User logged in and inside project chat screen	V02: "Jello"	1. Click search bar. 2. Enter value to search.	User shouldn't be directed anywhere.	User isn't directed anywhere	Pass
SC03	Replying to messages - making a thread	TC04	User logged in, inside project chat screen and one or more messages are sent.	V03: C	1. Click Reply button.	A thread panel should open	A thread panel opens	Pass
		TC05	User logged in, inside project chat screen and one or more messages are sent.	V04: "Reply message"	1. Enter message. 2. Click Send button	Message should be sent and received by all group members and should be visible in the Thread Panel.	Message should is sent and received by all group members and is visible in the Thread Panel.	Pass
		TC06	User logged in, inside project chat screen and one or more messages are sent.	V05: "Reply message in group chat too"	1. Enter message. 2. Check the send in group check box. 3. Click Send button	Message should be sent and received by all group members and should be visible in the Thread Panel as well as group chat.	Message should is sent and received by all group members and is visible in the Thread Panel.	Pass
SC04	Individual Chat messaging	TC07	User logged in, inside project chat screen and two or more people are in the project.	V06: C	1. Click the user to chat with.	Direct messaging interface should open.	Direct messaging Interface is opening.	Pass
		TC08	User logged in, inside project chat screen and two or more people are in the project.	V07: "Hi"	1. Enter message	Message should be sent and received by that user.	Message should is sent and received by that user.	Pass
SC05	Sending files	TC09	User logged in, inside project chat screen.	V08: I	1. Click the send files button. 2. Select the Image file to send. 3. Click the send button.	File should be sent and received by that user.	File is sent and received by that user.	Pass
		TC10	User logged in, inside project chat screen.	V08: P	1. Click the send files button. 2. Select the PDF file to send. 3. Click the send button.	File should be sent and received by that user.	File is sent and received by that user.	Pass
SC06	AI chat	TC11	User logged in, inside project chat screen.	V09: EP	1. Click AI chat. 2. Enter prompt.	AI should give appropriate answer.	AI is giving appropriate answer.	Pass
SC07	Chat Summary	TC12	User logged in, inside project chat screen and there are some messages in the chat (group or individual).	V10: C	1. Click Summarize	A summary of unread messages should be provided.	A summary of unread messages is provided.	Pass

14)   Accept Invitation

Variable ID	Input Variable	Options for Each Variable
V01	Invitation Link Action	Accept / Decline / Back to Dashboard
V02	Access Method	Email invitation link / App notification
V03	User Account	TestingUserOne / TestingUserTwo
V04	Invitation Status	First-time invite / Already accepted invite
V05	Login	Valid credentials - V

Test Case ID	Variable	Value
TC1	V04	V
TC2	V02, V01	E, Accept
TC3	V02, V01	E, Decline
TC4	V02, V01	E, Back to Dashboard
TC5	V02	E
TC6	V02	E
TC7	V02, V01	A, Accept
TC8	V02, V01	A, Decline

Scenario TID	Scenario Description	Test Case ID	Pre Condition	Value	Steps to Execute	Expected Result	Actual Result	Status	Fix	Result after fix	Misc (Comments)
SC1	Accepting/Declining Invitation	TC1	User is registered	V01: Valid credentials	1. Go to registered emai account "harita34rathod@gmail.com". 2. Click the link recieved in the mail. 3. Login to the account using password "TestingUser@2".	The system should add user to the project.	The system is directing user to the are prompted to go into the project to accept its invitation.	Pass	-	-	
		TC2	<Link to app> is loaded and user is registered and logged in.	V02: E V01: Accept	1. Go to registered email account "harita34rathod@gmail.com". 2. Click the link for invitation to Test Project - 1 received on the email address. 3. Click Accept Invitation.	The system should add user to the project.	The system adds the user to the project they're invited to.	Pass	-	-	
		TC3	<Link to app> is loaded and user is registered and logged in.	V02: E V01: Decline	1. Go to registered email account "harita34rathod@gmail.com". 2. Click the link recieved at the email address. 3. Click Decline Invitation.	The system should not add user to the project.	The system has not added the user to the project.	Pass	-	-	The project will be displayed on the user's dashboard awaiting invitation acceptance.
		TC4	<Link to app> is loaded and user is registered and logged in.	V02: E V01: Back to Dashboard	1. Go to registered email account "harita34rathod@gmail.com". 2. Click the link recieved at the email address. 3. Click Back to Dashboard.	The system should direct user to the dashboard.	The system is directing user to the dashboard.	Pass	-	-	
		TC5	<Link to app> is loaded and user is registered, logged in and has already accepted invitation to Test Project - 1.	V02: E	1. Go to registered email account "harita34rathod@gmail.com". 2. Click the link for invitation to Test Project - 1 received on the email address.	The system should indicate to the user that they have already accepted the invitation for this project.	The system is still displaying the dialogue box to accept or decline the invitation.	Fail	Bug not fixed yet	–	
		TC6	<Link to app> is loaded and user is registered, logged in and has already accepted invitation to Test Project - 1.	V02: E	1. Go to registered email account "harita34rathod@gmail.com". 2. Click the link for invitation to Test Project - 1 received on the email address. 3. Click Decline invitation or Accept Invitation.	This test case should not be allowed.	The system is allowing this text case to exist and the user isn't removed from the prject after declining invitation.	Block	Bug not fixed yet	-	Reason for block: This test case should not exist. Fixing bug for <Test case ID> will resolve this.
		TC7	<Link to app> is loaded and user is registered and logged in as TestingUserTwo.	V02: A V01: Accept	1. Click the notifications icon on the dashboard. 2. Click on Accept invitation for project "Test Project - 3".	The system should add user to the project.	The system is adding user to the project.	Pass	-	-	
		TC8	<Link to app> is loaded and user is registered and logged in as TestongUserOne.	V02: A V01: Decline	1. Click the notifications icon on the dashboard. 2. Click on Decline for project "Test Project - 3".	The system should not add user to the project.	The system is not adding user to the project.	Pass	-	-	

Acceptance Level Test Cases:

Acceptance Test ID	Requirement	Test Description	Expected Outcome	Status
AT1	A user should be able to register	Register using valid credentials	Account successfully created	Pass
AT2	User can login	User enters correct username/password	Dashboard opens	Pass
AT3	User can create a project	"Create new project" → name → save	Project appears in project list	Pass
AT4	User can be added to a project	Owner invites user	Invited user receives email notification	Pass
AT5	User can chat in group	Open chat → send message	Message appears in conversation	Pass
AT6	User can chat individually	Open chat → Go to intended user → send message	Message appears in conversation	Pass
AT7	Users can chat in an organized manner	Open chat → Reply to intended message → send message	Message appears in a thread panel	Pass
AT8	Team Leaders can create, assign tasks and add dependendencies	Go to project → Task	Tasks are created, assigned and displayed and dependencies are added and displayed.	Pass
AT9	Users should be able to connect google calendar	Go to project → Calendar	Users are able to connect calendar	Pass
AT10	Users should be able to take insights from AI	Open Chat → AI Chat	Users are able to take insights from AI	Pass
AT11	Users should be able to get chat summary	Open Chat → Summarize	Users are able to get Chat summary	Pass
AT12	Users should be able to see a visual dashborad about their project analytics	Dashboard → Analytics	Users are able to see a visual dashborad about their project analytics	Pass