

PES UNIVERSITY, BANGALORE

Department of Computer Science and Engineering
B. Tech (CSE) – 5th Semester – Aug-Dec 2023

UE21CS341A - Software Engineering Test Plan & Results Documentation

CAMPUS COMPASS: Navigating College Life Together
Team #: T12

PES1UG21CS564	Shreeja Rajesh
PES1UG21CS568	Shreya Tippireddy

PES1UG21CS574	Shreya Mishra
PES1UG21CS599	Siri Gowri H

Test Cases:

Test Case ID	Name of Module	Test Case Description	Pre-condition s	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-01	User registration module	To test the login functionality	Access to Chrome Browser	1: Navigate to http://www .demo.com 2: Enter Username and Password 3: Click Submit	User name: PESU Stude nt. Passw ord: pes12 3	Login should be successful with "welcome message"	Login successful with "welcome message" displayed	Pass

Test Case	Name of	Description	Pre-conditio	Test Steps	Test	Expected	Actual	Test
ID	Module		ns		Data	Results	Results	Result
UT-02	Admin	Verify that	Admin is	1. Log in	Existi	View and	(Check if	Pass
	Handling for	administrators	logged in,	as an	ng	manage	messages	
	Contact Us	can manage	Contact Us	admin 2.	Conta	Contact Us	are	
		messages	messages exist	Access the	ct Us	messages	displayed in	
		received from		Contact	messa	successfully	the admin	
		the Contact Us		Us	ges		interface)	
		form using the		manageme				
		Django admin		nt section				
		backend.		in Django				
				admin				

UT-03	Admin	Ensure that the	Admin is	1. Log in	Existi	Contact Us	(Check if	Pass
	Dashboard	Django admin	logged in	as an	ng	section is	the	
		dashboard		admin 2.	Conta	visible on the	Contact Us	
		includes a		Check the	ct Us	dashboard	section is	
		section for		admin	sectio		present in	
		managing		dashboard	n in		the admin	
		Contact Us			the		dashboard)	
		messages.			admin			
					dashb			
					oard			
UT-04	Admin Reply	Confirm that	Admin is	1. Log in	Respo	Response is		Fail
	Functionality	administrators	logged in,	as an	nse	saved and sent		
		can respond to	Contact Us	admin 2.	conte	via email		
		user messages	message exists	Access the	nt			
		directly through		Contact				
		the admin		Us				
		interface, and		manageme				
		responses are		nt section				
		stored and sent		3. Reply				
		via email.		to a				
				Contact				
				Us				
				message				

Test Case	Name of	Description	Pre-condition	Test Steps	Test	Expected	Actual	Test Result
ID	Module		s		Data	Results	Results	
UT-05	User	Verify that the	None	1. Access	Valid	User account	(Check if	Pass
	Registration	user		the	registra	is created	the user	
	(F001)	registration		registratio	tion	successfully	account is	
		form is		n form 2.	data		created in	
		user-friendly		Fill in			the	
		and includes		valid			database)	
		required fields.		registratio				
				n details 3.				

				Submit the form				
UT-06	User Registration (F002)	Confirm that the registration view processes the submitted data correctly and securely stores user information.	None	1. Submit a registratio n form with valid data	Valid registra tion data	User account is stored securely in the database	(Check if the user account is securely stored)	Pass
UT-07	User Registration (F002)	Ensure the security of user authentication during registration, including password hashing and CSRF token usage.	None	1. Submit a registratio n form with valid data	Valid registra tion data	Passwords are securely hashed, and CSRF tokens are used	(Check if passwords are hashed and CSRF tokens are implemente d)	Pass
UT-08	User Login (F003)	Verify that the user login form is user-friendly and includes required fields.	Registered user account exists	1. Access the login form 2. Fill in valid login details 3. Submit the form	Valid login data	User is logged in successfully	(Check if the user is logged in and a session is created)	Pass
UT-09	User Login (F003)	Confirm that the login view authenticates users based on credentials and sets up user sessions correctly.	Registered user account exists	1. Submit a login form with valid data	Valid login data	User is authenticated , and a session is created	(Check if the user is authenticat ed and a session is created)	Pass

UT-10	User Logout	Ensure that the	User is logged	1. Access	None	User is logged	(Check if	Pass
	(F004)	logout view	in	the logout		out, and the	the user is	
		correctly		view		session is	logged out,	
		handles user				invalidated	and the	
		logout and					session is	
		invalidates the					invalidated)	
		user's session.						

Test Case ID	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-11	Mentor Registration (F001)	Verify that the mentor registration form includes fields for resume upload, domain specification, and a brief bio.	None	1. Access the mentor registratio n form 2. Fill in valid mentor registratio n details	Valid mentor registra tion data	Mentor registration is successful with resume, domain, and bio	(Check if mentor registration is successful with the provided details)	Pass
UT-12	Mentor Registration (F002)	Confirm that the system tracks the last mentor application and enforces a minimum six-month gap between applications.	Mentor has previously applied within the last six months	1. Attempt to apply for mentorshi p	None	Application is disabled or displays a message indicating the time limit	(Check if the application is disabled or a message is displayed as expected)	Pass

	I	I	I	1	I	I		_
UT-13	Mentor	Ensure that a	Mentor has	1.	None	Message is	(Check if	Pass
	Registration	message is	previously	Attempt		displayed or	the	
	(F003)	displayed or	applied within	to apply		application is	expected	
		the application	the last six	for		disabled	message is	
		process is	months	mentorshi			displayed	
		disabled if a		p			or the	
		mentor					application	
		attempts to					is disabled)	
		apply again						
		within the						
		six-month						
		period.						
Test Case	Name of	Description	Pre-conditions	Test Steps	Test	Expected	Actual	Test Result
ID	Module				Data	Results	Results	
UT-14	SearchView(F	Tests the	Test user,	Make a	'q':	HTTP status	Actual	Pass/Fail
	001)	search view	posts,	POST	'test'	code is 200.	HTTP	based on the
		with a valid	resources,	request to			status code	actual
		query.	announcemen	the search			and	results
			ts, and a	view with			template	matching
			student are	a valid			used.	the expected
			created.	query.				results
UT-	SearchView(F	Tests the	Test user,	Make a	{}	HTTP status	Actual	Pass/Fail
15	002)	search view	posts,	POST		code is 200.	HTTP	based on the
	,	with no query.	resources,	request to		The	status code,	actual
			announcemen	the search		'search.html'	template	results
			ts, and a	view with		template is	used, and	matching
			student are	no query.		used.	context	the expected
			created.				variable	results.
						The context	'count.'	
						variable		
						'count' is 0.		
		<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	

UT-16	SearchView(F	Tests the	Test user,	Make a	q':	HTTP status	Actual	Pass/Fail
	003)	search view	posts,	POST	'!@#\$%	code is 200.	HTTP	based on the
		with an invalid	resources,	request to	^'	The	status code,	actual
		query.	announcemen	the search		'search.html'	template	results
			ts, and a	view with		template is	used, and	matching
			student are	an invalid		used.	context	the expected
			created.	query.		The context	variable	results.
						variable	'count.'	
						'count' is 0.		

Test Case	Name of	Description	Pre-condition	Test Steps	Test	Expected	Actual	Test Result
ID	Module		s		Data	Results	Results	
UT-17	Club Creation	Verify that	None	1. Access	Valid	Club is	(Check if	Pass
		administrators		the club	club	successfully	the club is	
		can successfully		creation	creatio	created and	created and	
		create new		form 2.	n data	stored in the	stored as	
		clubs using the		Fill in		database	expected)	
		provided club		valid club				
		creation form.		details				
UT-18	Club Head	Confirm that	Club and club	1. Access	Valid	Selected user	(Check if	Pass
	Designation	administrators	members exist	the club	club	is assigned as	the selected	
		can designate a		head	head	the club	user	
		club head from		designatio	selectio	head with	becomes	
		existing club		n interface	n data	special	the club	
		members or		2. Select a		privileges	head with	
		registered users.		club head			privileges)	

UT-19	Club	Ensure that	Club and	1. Access	None	Club	(Check if	Pass
	Management	administrators	announcemen	the club		announceme	club	
		can oversee and	ts exist	activity		nts are	announcem	
		manage club		managem		displayed for	ents are	
		announcements		ent		management	displayed as	
		effectively.		interface			expected)	
UT-20	Club	Confirm that	Club and	1. Access	Valid	Club	(Check if	Pass
	Management	administrators	members exist	the	membe	members are	club	
		can add or		member	r	updated	members	
		remove		managem	manage	accordingly	are added	
		members in		ent	ment		or removed	
		each club as		interface	data		as expected)	
		needed.		2. Add or				
				remove				
				club				
				members				

UT-21	Club Head	Verify that a	Club and	1. Access	Valid	Social media	(Check if	Pass
	Functionality	club head can	social media	the club	social	manager is	the social	
	(US010)	successfully	manager exist	head	media	added to the	media	
		add social		interface 2.	mana	club	manager is	
		media		Add social	ger		added as	
		managers to		media	data		expected)	
		help manage		manager				
		the club's						
		online						
		presence.						

UT-22	Club Head	Confirm that a	Club and club	1. Access	Valid	Club	(Check if	Pass
	Functionality	club head can	members exist	the club	club	member is	the club	
	(US010)	add club		head	mem	added to the	member is	
		members to		interface 2.	ber	club	added as	
		help manage		Add club	data		expected)	
		the club's		member				
		online						
		presence.						

Test	Name of Module	Description	Pre-conditions	Test Steps	Test	Expected	Actual	Test
Case ID					Data	Results	Results	Result
UT-23	Announcement	Verify that club	User is a club	1. Log in	Valid	Announce	(Check if the	Pass
	Creation (F001)	heads and	head or social	as a club	annou	ment is	announceme	
		social media	media manager	head or	nceme	created	nt is created	
		managers can		social	nt data	successfully	as expected)	
		create		media				
		announcement		manager 2.				
		s for their		Access the				
		club's events,		announce				
		activities, or		ment				
		news.		creation				
				interface 3.				
				Fill in				
				announce				
				ment				
				details				
UT-24	Access Control	Ensure that	User is not a	1.	N/A	User is	(Check if	Pass
	Decorator	unauthorized	club head or	Attempt		redirected	unauthorize	
		users cannot	social media	to access		or denied	d access is	
		access the	manager	the		access	restricted)	
		announcement	-	announce				
		creation		ment				
		interface.						

				creation interface				
IT-	Integration	Perform	Access control	1. Perform	N/A	Integration	(Check if	Pass
25	Testing	integration	decorator is	integration		tests pass	integration	
		testing to	integrated	tests		without	tests for	
		ensure that the		involving		errors	decorator	
		decorator		the			pass)	
		works as		decorator				
		intended						
		within the						
		system.						

Test Case ID	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-26		Tests the models in the application.	Test objects for dependencies (Department, Branch) created. Test user, student, mentor, club, and club member objects created.	Test mentor model creation. Test club member model creation. Test club model creation.	Variou s data related to users, mento rs, clubs, etc.	Ensures models are created and associated correctly.	Checks if models behave as expected.	Passes if all assertions are true.
UT-27		Tests the views in the account application.	Test user, student, and club objects created.	Test register view. Test login view. Test profile view. Test edit	Test user data, URLs.	Ensures views return the correct status codes and perform expected actions.	Checks if views behave as expected.	Passes if all assertions are true.

			profile view. Test mentor registratio n view. Test show mentor view. Test approve members hip view.				
UT-28	Tests the account activation process.	Test user object created.	Create activation token. Perform activation process.	Test user data, activati on token.	User account gets activated successfull y.	Checks if the activation process is successful.	

Test Case ID	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-29 .	Admin Announcement Interface	Verify that administrato rs can input announceme nt details in the admin interface.	Administrator is logged in	1. Log in as an administra tor 2. Access the admin announce ment interface 3. Input announce ment	Valid annou nceme nt data	Results Announce ment is created successfully	Results (Check if the announcem ent is created as expected)	Pass

Announcement

is created

Check if

administrato

N/A

Announce

ment is

1. Locate

the created

(Check if

the

Pass

UT-30

Announcement

Publication

		rs can		announce		marked as	announcem	
		publish		ment 2.		published	ent is	
		announceme		Publish			published as	
		nts to		the			expected)	
		designated		announce				
		feeds.		ment				
UT-31	Announcement	Test if	Announcement	1. Locate	Update	Announce	(Check if	Pass
	Editing	administrato	is created	the created	d	ment is	the	
		rs can edit or		announce	annou	edited	announcem	
		update		ment 2.	nceme	successfully	ent is edited	
		existing		Edit	nt data		as expected)	
		announceme		announce				
		nts.		ment				
				details				
UT-32	Announcement	Ensure	Announcement	1. Locate	N/A	Announce	(Check if	Pass
	Deletion	administrato	is created	the created		ment is	the	
		rs can delete		announce		deleted	announcem	
		announceme		ment 2.			ent is	
		nts.		Delete the			deleted as	
				announce			expected)	
				ment				
UT-33	Announcement	Test if	Announcement	1. Perform	Search	Announce		
	Search	administrato	is created	a search for	query	ment is		
		rs can search		the created		found in		
		for		announce		search		
		announceme		ment		results		
		nts.						
	•			•		•	•	
Test Case	Name of Module	Description	Pre-conditions	Test Steps	Test	Expected	Actual	Test Result
ID					Data	Results	Results	

Test Case	Name of Module	Description	Pre-conditions	Test Steps	Test	Expected	Actual	Test Result
ID					Data	Results	Results	

Page 12 Aug-Dec 2023 UE21CS341A: SE

UT-34	Announcement	Verify that	User is logged	1. Log in	N/A	Announce	(Check if	Pass
	Feed	users can view	in	as a user 2.		ment feed is	the feed is	
		the dedicated		Navigate		displayed	displayed as	
		feed or section		to the			expected)	
		containing		announce				
		important		ment feed				
		announcemen		or section				
		ts and						
		updates.						
UT-35	Filter by Branch	Test if users	User is logged	1. Log in	User's	Only	(Check if	Pass
		can filter	in	as a user 2.	branch	announcem	the	
		announcemen		Access the		ents meant	announcem	
		ts based on		announce		for the	ents are	
		their current		ment feed		user's	filtered as	
		branch.		or section		branch are	expected)	
				3. Apply		displayed		
				branch				
				filter				

Test Case ID	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-36	Announcement	Access control for club head to the announcem ent creation view.	Users 'club_head_user' and 'club_head' exist in the system.	Log in as 'club_hea d'. Access the announce ment creation view.	N/A	The status code should be 200, indicating successful access.	The status code is 200.	Passed
UT-37	Announcement	Access control for social media manager to the announcem	User 'social_media_m anager' exists in the system.	Log in as 'social_m edia_man ager'. Access the announce	N/A	he status code should be 200, indicating successful	The status code is 200.	Passed

		ent creation view.		ment creation view.		access.		
UT-38	Announcement	Access control for a regular user attempting to access the announcem ent creation view.	N/A	Access the announce ment creation view without logging in.	N/A	The user should be redirected (status code 302).	The user is redirected (status code 302).	Passed
UT-39	Announcement	Access control for an authenticate d user (club head) to the announcem ent creation view.	User 'club_head_user' exists in the system.	Log in as 'club_hea d_user'. Access the announce ment creation view.	N/A	The status code should be 200, indicating successful access.	The status code is 200.	Passed
UT-40	Announcement	Form submission for creating an announcem ent.	User 'club_head_user' exists in the system.	Log in as 'club_hea d_user'. Submit the announce ment creation form with valid data.	Title: 'Test Annou nceme nt' Conte nt: 'This is a test annou nceme nt.' Branch IDs: [1, 2]	The status code should be 302 (redirect after successful submission), and the announce ment count should increase by 1.	The status code is 302, and the announce ment count increases by 1.	Passed

	(Assu ming these are valid branch IDs in the system)	

Test	Name of Module	Description	Pre-conditions	Test Steps	Test	Expected	Actual	Test Result
Case					Data	Results	Results	
ID								
UT-4	Mentor List	Verify that	User is logged in	1. Log in as	N/A	Mentor	(Check if	Pass
1		users can		a user 2.		list is	the	
		access a list of		Navigate to		displayed	mentor list	
		mentors		the mentor			is	
		within their		directory			displayed	
		branch.					as	
							expected)	
UT-4	Domain	Test if users	User is logged in	1. Log in as	User's	Only	(Check if	Pass
2	Segregation (can filter		a user 2.	selected	mentors	mentors	
		mentors based		Access the	domain	in the	are filtered	
		on their		mentor		selected	by domain	
		domains of		directory 3.		domain	as	
		expertise.		Apply		are	expected)	
				domain		displayed		
				filter				

UT-4	Resume Access	Check if users	User is logged in	1. Log in as	N/A	Mentor's	(Check if	Pass
3		can access the		a user 2.		resume is	the	
		resumes		Navigate to		displayed	mentor's	
		attached to		the mentor			resume is	
		mentor		directory 3.			accessible	
		profiles.		Select a			as	
				mentor			expected)	
UT-4	WhatsApp	Verify that	User is logged in	1. Log in as	Mentor's	WhatsAp	(Check if	Fail
4	Integration	users can		a user 2.	WhatsA	p chat is	WhatsApp	
		initiate a chat		Navigate to	pp	initiated	chat is	
		with a mentor		the mentor	informat		initiated as	
		via		directory 3.	ion		expected)	
		WhatsApp.		Select a				
				mentor 4.				
				Click on				
				"Chat with				
				Mentor"				

Test Case ID	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-45	Branch_guidance	Ensure the Mentor model's _str_ method correctly represents a mentor.	User and Domain instances exist.	Create a User. Create a Domain. Create a Mentor associated with the User and Domain. Test Data: User (testuser), Domain	User (testuser), Domain (Test Domain).	The _str_ method returns 'testuser - Test Domain '.	The _str_ method returns 'testuser - Test Domain'.	Passed

				(Test Domain).				
UT-46	Branch_guidance	Ensure the mentor list view is accessible.	User instance exists.	Create a User. Attempt to access the mentor list view.	User (testuser).	The mentor list view returns a status code of 200.	The mentor list view returns a status code of 302	Failed
	Branch_guidance	Ensure mentors can be organized by their domains.	Mentor and Domain instances exist.	Create a Domain. Create a Mentor associated with the Domain. Access the mentor list view and check for domain segregation .	Domain (Test Domain).	Mentors are organize d by their domains in the mentor list view.	Mentors are organized by their domains in the mentor list view.	Passed
	Branch_guidance	Ensure the "Chat with Mentor" button links to WhatsApp.	Mentor instance exists.	Create a Mentor. Access the mentor's profile view and check for the presence of the WhatsApp integration	None.	The mentor's profile view contains a "Chat with Mentor" button that links to WhatsA	The mentor's profile view contains a "Chat with Mentor" button that links to WhatsApp.	Passed

UE21CS341A:SE Page 17

			pp.	

Test	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected	Actual	Test
Case ID						Results	Results	Result
UT-49	Resource Upload	Verify that users can successfully upload PDF resources.	User is logged in	1. Log in as a user 2. Navigate to the resource upload section 3. Upload a PDF resource	PDF file	Resource is uploaded successfu lly	(Check if the resource is uploaded as expected)	Pass
UT-50	Tagging System	Test if users can assign tags specifying target audiences and domains to the uploaded resources.	User is logged in	1. Log in as a user 2. Navigate to the resource upload section 3. Upload a PDF resource 4. Assign tags	Tags for target audience and domain	Tags are assigned to the resource	(Check if tags are assigned as expected)	Pass
UT-51	Resource Storage (Check if uploaded resources are securely stored.	User is logged in	1. Log in as a user 2. Navigate to the resource upload section 3. Upload a PDF resource	PDF file	Resource is securely stored	(Check if the resource is securely stored)	Pass

UT-52	Branch Selection	Verify that users	User is logged	1. Log in as	Selected	Resource	(Check if the	Pass
	Interface	can choose one	in	a user 2.	branches	is	branches are	
		or multiple		Navigate to		intended	selected as	
		branches for		the resource		for the	expected)	
		which the		upload		selected		
		resource is		section 3.		branches		
		intended.		Upload a PDF				
				resource 4.				
				Choose				
				target				
				branches				
UT-53	Metadata	Test if metadata	User is logged	1. Log in as	N/A	Metadata	(Check if	Pass
		like upload date	in	a user 2.		is	metadata is	
		and user		Navigate to		displayed	displayed as	
		information are		the resource		correctly	expected)	
		associated with		upload				
		the uploaded		section 3.				
		resources.		View				
				metadata of				
				an				
				uploaded				
				resource				

Test Case ID	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
						resuits	resuits	resure
UT-54	Posts Listing	Verify that the	User has	1. Log in as	Authore	List of	(Check if the	Pass
		user's profile	authored posts	the user 2.	d posts	authored	posts are	
		displays a list of		Navigate to		posts is	displayed as	
		all posts		the profile		displayed	expected)	
		authored by		page				
		them.						
UT-55	Resources	Test if the user's	User has	1. Log in as	Uploaded	List of	(Check if the	Pass
	Listing	profile presents a	uploaded	the user 2.	resources	uploaded	resources are	
		list of all	resources	Navigate to		resources	displayed as	
		resources		the profile		is	expected)	
		uploaded by		page		displayed		
		them.						

UT-56	Club	Verify that the	User is a	1. Log in as	Club	List of	(Check if the	
	Membership	user's profile	member of	the user 2.	members	club	club	
	Display	shows the clubs	clubs	Navigate to	hips	members	memberships	
		or groups they		the profile		hips is	are displayed	
		are a member of.		page		displayed	as expected)	

Test Case ID	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-57	User Profile	Verify that users	Target user	1. Log in as	Usernam	Other	(Check if	Pass
	Access	can access the	exists	the user 2.	e of	user's	the profile	
		profile page of		Navigate to	another	profile	page is	
		other users		another	user	page is	accessible)	
		based on		user's		displayed		
		usernames.		profile				
UT-58	Basic	Test if the basic	Target user's	1. Log in as	Basic	Basic	(Check if	Pass
	Information	information of	profile is	the user 2.	informati	informati	the	
	Display	the viewed user,	accessed	Access	on of the	on is	informatio	
		including name		another	viewed	displayed	n is	
		and bio, is		user's	user	correctly	displayed as	
		displayed.		profile			expected)	
UT-59	Chat Option	Verify that the	Target user has	1. Log in as	-	WhatsAp	(Check if	Pass
		chat option is	permitted access	the user 2.		p chat is	the chat is	
		available and	to show	Access		initiated	initiated as	
		functional,	number	another		with the	expected)	
		allowing users to	publicly	user's		viewed		
		initiate a		profile 3.		user		
		conversation		Click on				
		with the viewed		the chat				
		user through		option				
		WhatsApp API.						
UT-60	Posts and	Test if the	Target user's	1. Log in as	Posts and	List of	(Check if	Pass
	Resources Listing	profile page	profile is	the user 2.	resources	posts and	the posts	
,	(shows a list of	accessed	Access	shared by	resources	and	
		posts and		another	the	is	resources	
		resources shared		user's	viewed	displayed	are	
				profile	user			

by the viewed			displayed as	
user.			expected)	

Test Case	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected	Actual	Test
ID						Results	Results	Result
UT-61	Global Search Bar (F001)	Verify that users can access the	User is logged in	1. Navigate	-	Global search	(Check if the search	Pass
		global search bar from any page within the platform.		to any page within the platform 2.		bar is accessible	bar is accessible)	
		patronii		click on the global search bar				
UT-62	Posts Search (F002)	Test if users can search for posts based on keywords, titles, or tags.	Relevant posts exist	1. Enter keywords, titles, or tags in the global search bar 2. Press Enter or click on the search icon	Keyword s, titles, or tags for post search	Relevant posts are displayed in the search results	(Check if the posts are displayed as expected)	Pass
UT-63	Resources Search (F003)	Verify that users can search for resources by keywords, titles, or tags.	Relevant resources exist	1. Enter keywords, titles, or tags in the global search bar 2. Press Enter or click on the search icon	Keyword s, titles, or tags for resource search	Relevant resources are displayed in the search results	(Check if the resources are displayed as expected)	Pass

UT-64	Announcements	Test the search	Relevant	1. Enter	Keyword	Relevant	(Check if	Pass
	Search (F004)	option for	announcements	keywords	s or titles	announc	the	
		announcements	exist	or titles in	for	ements	announce	
		based on		the global	announce	are	ments are	
		keywords or		search bar	ment	displayed	displayed	
		titles.		2. Press	search	in the	as	
				Enter or		search	expected)	
				click on		results		
				the search				
				icon				
UT-65	Users Search	Verify that users	Relevant users	1. Enter	Name,	Relevant	(Check if	Pass
	(F005)	can search for	exist	name,	username	users are	the users	
		other users by		username,	, or other	displayed	are	
		name, username,		or other	identifyin	in the	displayed	
		or other		identifying	g	search	as	
		identifying		informatio	informati	results	expected)	
		information.		n in the	on for			
				global	user			
				search bar	search			
				2. Press				
				Enter or				
				click on				
				the search				
				icon				
UT-66	Search Results	Ensure that	Search results	1. Perform	-	Structure	(Check if	Pass
	Page (F006)	search results are	exist	a search		d search	the search	
		presented in a		using the		results	results	
		structured		global		page is	page is	
		manner for easy		search bar		displayed	structured	
		user navigation.					as	
							expected)	

Test Case	Name of	Description	Pre-conditi	Test Steps	Test Data	Expected	Actual	Test Result
ID	Module		ons			Results	Results	

UT-67	PDF Resource Management	This test case verifies the successful uploading of a PDF resource with specified attributes.	The system is running. The upload_res ource function is available. A user with the username 'test_user' exists.	Mock a user with the username 'test_user'. Create a sample PDF file using the create_sam ple_pdf function.	User: {'username ': 'test_user'} PDF File: Created using create_sam ple_pdf. Target Audiences:	The uploaded resource should not be None. The user of the resource should be 'test_user'. The file type	All assertions pass.	Pass
UT-68	PDF Resource Management	This test case verifies the successful viewing of a previously uploaded PDF resource.	The system is running. The view_reso urce function is available. A user with the username 'test_user' exists.	Mock a user with the username 'test_user'. Create a sample PDF file using the create_sam ple_pdf function. target audience	User: {'username ': 'test_user'} PDF File: Created using create_sam ple_pdf. Target Audiences:	The viewed resource should not be None. The resource ID should match the uploaded resource. The user of the should	2 errors due to branches	Failed
UT-69	PDF Resource Management	This test case verifies the successful downloading of a previously uploaded PDF resource.	The system is running. The download _resource function is available. A user with the username 'test_user' exists.	Mock a user with the username 'test_user'. Create a sample PDF file using the create_sam ple_pdf function. Upload	User: {'username ': 'test_user'} PDF File: Created using create_sam ple_pdf. Target Audiences: ['target_	The downloade d file should not be None. The length of the downloade d file should be greater than 0.	All assertions pass.	Pass

			l	
			l	
			l	
			l	1
			l	

Test Case	Name of	_	Pre-cond	Test Steps	Test Data	Expected	Actual	Test Result
UT-70	Module Resource Filtering	verify that the resource list view displays available resource s.	A user with the usernam e 'test_use r' exists.	Create a test request for the resource list view.	User: {'username' : 'test_user'}	Results The HTTP response status code should be 200, indicating a successful request.	Results The HTTP response status code should be 200, indicating a successful reques	Passed
UT-71	Resource Filtering	Verify that the resource by tag view displays resource s filtered by a specific tag.	A user with the usernam e 'test_use r' exists. Tags 'tag1' and 'tag2' exist.	Create a test request for the resource by tag view with the tag 'tag1'. Set the user of the request to 'test_user'.	User: {'username' : 'test_user'} 'Tags: ['tag1', 'tag2']	The HTTP response status code should be 200, indicating a successful request.	The HTTP response status code should be 200, indicating a successful request.	Passed
UT-72	Resource Filtering	Verify that the upload resource view successf ully	A user with the usernam e 'test_use r' exists.	Create a test request for the upload resource view with sample	User: {'username' : 'test_user'} Branch: {'branch_n ame':	The HTTP response status code should be 302, indicating a successful redirect.	The HTTP response status code should be 302, indicating	Passed

		processe s a resource upload request.	branch with the name 'TestBra nch' exists.	data. Set the user of the request to 'test_user'.	'TestBranch '} 'Tags: ['tag1', 'tag2'] Resource Data: {'title': 'Test		a successful redirect.	
UT-73	Resource Filtering	Verify that the downloa d resource view successf ully processe s a resource downloa d request.	A user with the usernam e 'test_use r' exists. A resource with the title 'Test Resourc e' and a file 'test_file .pdf' exists.	Set the user of the request to 'test_user'. Make a GET request to the download resource view.	User: {'username' : 'test_user'} Resource Data: {'title': 'Test Resource', 'files': 'test_file.pd f'}	The HTTP response status code should be 200, indicating a successful request.	The HTTP response status code should be 200, indicating a successful request.	Passed

Test Case	Name of	Descripti	Pre-condi	Test Steps	Test Data	Expected Results	Actual	Test Result
ID	Module	on	tions				Results	
UT-74	Resource	Verify	User	1. Create a	User:	HTTP response	HTTP	Passed
	Editing	that the	'test_user	test request	{'username':	status code is	response	
		resource	' exists.	for the edit	'test_user'}	200. Rendered	status code	
		editing	Resource	resource	Resource	page contains	is 200.	
		view	'Test	view. 2. Set	Data: {'title':	current resource	Resource	
		renders	Resource	the user of	'Test	details for	details are	
		successfu	' exists.	the request	Resource'}	editing.	successfully	
		lly.		to				

	I			Ι.	I	I	l	I
				'test_user'.			rendered	
				3. Make a			for editing.	
				request to				
				the edit				
				resource				
				view.				
UT-75	Resource	Verify	User	1. Create a	User:	HTTP response	HTTP	Passed
	Editing	that users	'test_user	test request	{'username':	status code is	response	
		can	' exists.	for the edit	'test_user'}	302. Tags and	status code	
		successfu	Resource	resource	Resource	branches of the	is 302. Tags	
		lly	'Test	view with	Data: {'title':	resource are	and	
		update	Resource	updated	'Test	updated.	branches of	
		tags and	' with	tags and	Resource',		the	
		branches	tags	branches. 2.	'tags':		resource	
		of a	'tag1',	Set the user	['new_tag'],		are	
		resource.	'tag2'	of the	'branch':		successfully	
			exists.	request to	['NewBranc		updated.	
			Branch	'test_user'.	h']}			
			'TestBran	3. Make a				
			ch' exists.	POST				
				request to				
				the edit				
				resource				
				view.				
UT-76	Resource	Verify	User	1. Create a	User:	HTTP response	HTTP	Passed
	Editing	that users	'test_user	test request	{'username':	status code is	response	
		can	' exists.	for the edit	'test_user'}	302. Changes to	status code	
		successfu	Resource	resource	Resource	the resource,	is 302.	
		lly save	'Test	view with	Data: {'title':	including the	Changes to	
		changes	Resource	changes. 2.	'Updated	updated title, are	the	
		made to a	' exists.	Set the user	Title', 'tags':	saved.	resource,	
		resource.		of the	['new_tag'],		including	
				request to	'branch':		the	
				'test_user'.	['NewBranc		updated	
				3. Make a	h']}		title, are	
				POST			successfully	
				request to			saved.	
				the edit				
				the edit				

				resource				
				view.				
UT-77	Resource	Verify	Users	1. Create a	User:	HTTP response	HTTP	Passed
	Editing	that users	'test_user	test request	{'username':	status code is	response	
		can only	' and	for the edit	'another_us	403. Access is	status code	
		edit their	'another_	resource	er'}	forbidden since	is 403.	
		own	user'	view. 2. Set	Resource	'another_user'	Access is	
		resources	exist.	the user of	Data: {'title':	does not own the	forbidden,	
			Resource	the request	'Test	resource.	as	
			'Test	to	Resource'}		expected.	
			Resource	'another_us				
			' owned	er'. 3. Make				
			by	a request to				
			'test_user	the edit				
			' exists.	resource				
				view.				

Test Case	Name of Module	Descriptio	Pre-cond	Test Steps	Test Data	Expected Results	Actual	Test Result
ID		n	itions				Results	
UT-78	Global Search	Ensure the	User is	1. Visit a	None	The global search	The global	Pass
		presence	logged in	page within		bar is visible on	search bar	
		of the	and	the		the page.	is present.	
		global	navigates	platform. 2.				
		search bar	to any	Look for				
		on any	page	the				
		page	within	presence of				
		within the	the	the global				
		platform.	platform.	search bar.				
UT-79	Global Search	Search for	User has	1. Enter	Posts with	The search results	The search	Pass
		posts	created	'Test Post'	titles or	page contains the	results	
		based on	posts in	in the	content	'Test Post' and	display the	
		keywords,	the	search bar	containing	related content.	expected	
		titles, or	system.	and press	'Test Post'.		posts.	
		tags.		Enter. 2.				
				Examine				
				the search				

				1				
				results				
				page.				
UT-80	Global Search	Search for	User has	1. Enter	Resources	The search results	The search	Pass
		resources	uploaded	'Test	with titles	page contains the	results	
		by	resources	Resource'	or files	'Test Resource'	display the	
		keywords,	in the	in the	containing	and related	expected	
		titles, or	system.	search bar	'Test	content.	resources.	
		tags.		and press	Resource'.			
				Enter. 2.				
				Examine				
				the search				
				results				
				page.				
UT-81	Global Search	Search for	Announ	1. Enter	Announce	The search results	The search	Pass
		announce	cements	'Test	ments with	page contains the	results	
		ments	exist in	Announce	titles or	'Test	display the	
		based on	the	ment' in	content	Announcement'	expected	
		keywords	system.	the search	containing	and related	announce	
		or titles.		bar and	'Test	content.	ments.	
				press Enter.	Announce			
				2. Examine	ment'.			
				the search				
				results				
				page.				
UT-81	Global Search	Search for	Users	1. Enter	User	The search results	The search	Pass
		other users	with	'test_user2'	profiles	page contains the	results	
		by name,	profiles	in the	with	'test_user2' and	display the	
		username,	exist in	search bar	usernames	related user	expected	
		or other	the	and press	or names	information.	user	
		identifyin	system.	Enter. 2.	containing		profiles.	
		g		Examine	'test_user2'		_	
		informatio		the search				
		n.		results				
				page.				

UT-82	Global Search	Present	Search	1. Perform	Various	The search results	The search	Pass
		search	results	a search	search	page has a clear	results	
		results in a	are	with a	results	structure,	page is	
		structured	available.	generic	from	presenting results	organized	
		manner		query (e.g.,	different	from different	and easy to	
		for easy		'Test'). 2.	modules.	modules.	navigate.	
		user		Examine				
		navigation		the				
				structure of				
				the search				
				results				
				page.				
UT-83	Global Search	Test edge	None	1. Perform	Empty			
		cases and		a search	query,			
		handling		with an	special			
		of empty		empty	characters.			
		queries.		query. 2.				
				Perform a				
				search with				
				special				
				characters				
				or symbols.				

Test Case	Name of	Descriptio	Pre-condi	Test Steps	Test Data	Expected Results	Actual	Test Result
ID	Module	n	tions				Results	
UT-84	Mentor Registration Form	Ensure that a user can successful ly register as a mentor by submitting a	User is logged in.	Navigate to the mentor registratio n form. Submit the form.	Valid resume file, domain: 'Python', descriptio n: 'Experienc ed Python Developer'	Mentor registration is successful, and the user is redirected to the appropriate page.	Mentor registratio n is successful, and the user is redirected to the appropriat e page.	Pass

		resume, specifyin g a domain, and providing a brief descripti on.						
UT-85	Mentor Registration Form	Ensure that appropri ate error messages are displayed when the mentor registrati on form is submitte d with invalid or missing informati on.	User is logged in.	Navigate to the mentor registratio n form. Verify error messages	Missing resume file.	Error messages indicate that a resume file is required.	No error message	Fail
UT-86	Mentor Application Time Limit	Ensure that a mentor cannot apply again within a six-mont h period.	User is logged in as a mentor who has recently applied.	Attempt to apply for mentorshi p immediate ly after the last applicatio n.	Mentor with a recent applicatio n.	Application is not allowed, and an appropriate message is displayed.	Applicatio n is not allowed, and an appropriat e message is displayed.	Pass

UT-87	Mentor Application Time Limit	Ensure that a mentor can apply again after a six-mont h gap.	User is logged in as a mentor who applied more than six months ago.	Attempt to apply for mentorshi p after waiting for six months.	Mentor with an applicatio n date more than six months ago.	Application is allowed, and the last application date is updated.	Error in accepting form before 6 months gap	Fail

Test Case ID	Page	Descriptio n	Pre-condi tions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-88	Home Page	Verify home page loads successfull y.	User logged in or on public home page.	1. Navigate to the home page.	None	Home page displays relevant content.	Home page loads as expected.	Pass
UT-89	User Profile	Check if user profile page displays user's informatio n.	User logged in.	1. Navigate to user profile page.	User data (username, bio, etc.)	User information is displayed correctly.	User profile shows expected info.	Pass
UT-90	Post Creation	Test creating a new post.	User logged in.	1. Navigate to post creation form.	Post data (title, content, etc.)	Post is successfully created.	Post is created as expected.	Pass
UT-91	Resource Upload	Test uploading	User logged in.	1. Navigate to	Resource data (title, file, etc.)	Resource is successfully uploaded.	Resource is uploaded as expected.	Pass

		a new resource.		resource upload form.				
UT-92	Announcemen t View	Ensure announce ments display properly.	User logged in.	1. Navigate to announce ments section.	Announcem ent data (title, content, etc.)	Announcements are visible.	Announce ments displayed correctly.	Pass
UT-93	Search Bar	Test search bar functionali ty.	User logged in, on page with search bar.	1. Enter search query and press Enter.	Search query	Relevant results are displayed.	Search results accurate.	Pass
UT-94	Chat Feature	Check if chat feature allows initiating a chat.	User logged in.	1. Navigate to chat section. 2. Initiate chat.	Chat data (user, message)	Chat window opens with the user.	Chat initiated as expected.	Pass
UT-95	Error Handling	Test how system handles invalid form submissio ns.	User logged in.	1. Submit form with invalid data.	Invalid form data	Appropriate error message is shown.	Error message for invalid submission.	Pass
UT-96	Navigation	Test navigation between different pages.	User logged in.	1. Click on navigation links to various pages.	None	User navigates to selected page.	Navigation works seamlessly.	Pass

Test Case	Page	Description	Pre-conditi	Test	Test Data	Expected	Actual	Test
ID			ons	Steps		Results	Results	Result

UT-97	User	Verify that	Valid user	1. Send	User	User is logged	User is	Pass
	Authenticatio	users can	credentials.	login	credential	in successfully.	authenticat	
	n	successfully		request	s		ed as	
		log in.		with			expected.	
				valid				
				credentia				
				ls.				
UT-98	User	Test	Invalid	1. Send	Invalid	User login is	Login	Pass
	Authenticatio	handling of	user	login	credential	denied.	failure is	
	n	invalid login	credentials.	request	s		handled	
		attempts.		with			correctly.	
		1		invalid			,	
				credentia				
				ls.				
UT-99	User	Check if	User	1. Send	None	User is logged	User is	Pass
	Authenticatio	users can	logged in.	logout		out	logged out	
	n	successfully		request.		successfully.	as expected.	
		log out.				•		
UT-100	Post	Test the	User with	1. Send	Post data	Post is created	Post is	Pass
	Management	creation of a	post	request	(title,	successfully.	created as	
		new post.	creation	to create	content,		expected.	
			permission	a new	etc.)			
			s.	post.				
UT-101	Post	Test the	User with	1. Send	Updated	Post is	Post is	Pass
	Management	ability to	post edit	request	post data	updated	updated as	
		edit an	permission	to edit an		successfully.	expected.	
		existing	s.	existing				
		post.		post.				
UT-102	Post	Test the	User with	1. Send	Post ID	Post is deleted	Post is	Pass
	Management	ability to	post	request		successfully.	deleted as	
		delete an	deletion	to delete			expected.	
		existing	permission	an				
		post.	s.	existing				
				post.				
UT-103	Resource	Test the	User with	1. Send	Resource	Resource is	Resource is	Pass
	Management	uploading	resource	request	data (title,	uploaded	uploaded as	
		of a new	upload	to	file, etc.)	successfully.	expected.	
		resource.		upload a				

			permission	new				
			s.	resource.				
UT-104	Resource	Test the	User with	1. Send	Updated	Resource is	Resource is	Pass
	Management	ability to	resource	request	resource	updated	updated as	
		edit an	edit	to edit an	data	successfully.	expected.	
		existing	permission	existing				
		resource.	S.	resource.				
UT-105	Resource	Test the	User with	1. Send	Resource	Resource is	Resource is	Pass
	Management	ability to	resource	request	ID	deleted	deleted as	
		delete an	deletion	to delete		successfully.	expected.	
		existing	permission	an				
		resource.	s.	existing				
				resource.				
UT-106	Announceme	Test the	User with	1. Send	Announc	Announceme	Announce	Pass
	nt	creation of a	announce	request	ement	nt is created	ment is	
	Management	new	ment	to create	data (title,	successfully.	created as	
		announcem	creation	a new	content,		expected.	
		ent.	permission	announc	etc.)			
			s.	ement.				
UT-107	Announceme	Test the	User with	1. Send	Updated	Announceme	Announce	Pass
	nt	ability to	announce	request	announce	nt is updated	ment is	
	Management	edit an	ment edit	to edit an	ment data	successfully.	updated as	
		existing	permission	existing			expected.	
		announcem	s.	announc				
		ent.		ement.				
UT-108	Announceme	Test the	User with	1. Send	Announc	Announceme	Announce	Pass
	nt	ability to	announce	request	ement ID	nt is deleted	ment is	
	Management	delete an	ment	to delete		successfully.	deleted as	
		existing	deletion	an			expected.	
		announcem	permission	existing				
		ent.	S.	announc				
				ement.				
UT-109	User	Test the	User with	1. Send	New user	User is created	User is	Pass
	Management	creation of a	user	request	data	successfully.	created as	
		new user.	creation	to create			expected.	
			permission	a new				
			s.	user.				

UT-110	User	Test the	User with	1. Send	Updated	User is	User is	Pass
	Management	ability to	user edit	request	user data	updated	updated as	
		edit an	permission	to edit an		successfully.	expected.	
		existing	s.	existing				
		user.		user.				
UT-111	User	Test the	User with	1. Send	User ID	User is deleted	User is	Pass
	Management	ability to	user	request		successfully.	deleted as	
		delete an	deletion	to delete			expected.	
		existing	permission	an				
		user.	s.	existing				
				user.				