UE21CS341A - Software Engineering

Test Plan & Results Documentation

CAMPUS COMPASS : Navigating College Life Together

Team #: T12

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Test Cases:

Test Case ID	Name of Module	Test Case Description	Pre-conditions	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 Student. Password : pes123	Login should be successful with "welcome message"	Login successful with "welcome message" displayed	Pass

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

| UT-03 | Admin Dashboard | Ensure that the Django admin dashboard includes a section for managing Contact Us messages. | Admin is logged in | 1. Log in as an admin 2. Check the admin dashboard | Existing Contact Us section in the admin dashboard | Contact Us section is visible on the dashboard | (Check if the Contact Us section is present in the admin dashboard) | Pass |
| UT-04 | Admin Reply Functionality | Confirm that administrators can respond to user messages directly through the admin interface, and responses are stored and sent via email. | Admin is logged in, Contact Us message exists | 1. Log in as an admin 2. Access the Contact Us management section 3. Reply to a Contact Us message | Response content | Response is saved and sent via email | | Fail |

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

				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 registration form with valid data	Valid registration 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 registration form with valid data	Valid registration data	Passwords are securely hashed, and CSRF tokens are used	(Check if passwords are hashed and CSRF tokens are implemented)	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 authenticated and a session is created)	Pass

Test Case ID	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-10	User Logout (F004)	Ensure that the logout view correctly handles user logout and invalidates the user's session.	User is logged in	1. Access the logout view	None	User is logged out, and the session is invalidated	(Check if the user is logged out, and the session is invalidated)	Pass

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 registration form 2. Fill in valid mentor registration details	Valid mentor registration 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 mentorship	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

Test Case ID	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-13	Mentor Registration (F003)	Ensure that a message is displayed or the application process is disabled if a mentor attempts to apply again within the six-month period.	Mentor has previously applied within the last six months	1. Attempt to apply for mentorship	None	Message is displayed or application is disabled	(Check if the expected message is displayed or the application is disabled)	Pass
Test Case ID	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-14	SearchView(F001)	Tests the search view with a valid query.	Test user, posts, resources, announcements, and a student are created.	Make a POST request to the search view with a valid query.	'q': 'test'	HTTP status code is 200.	Actual HTTP status code and template used.	Pass/Fail based on the actual results matching the expected results
UT-15	SearchView(F002)	Tests the search view with no query.	Test user, posts, resources, announcements, and a student are created.	Make a POST request to the search view with no query.	{}	HTTP status code is 200. The 'search.html' template is used. The context variable 'count' is 0.	Actual HTTP status code, template used, and context variable 'count.'	Pass/Fail based on the actual results matching the expected results.

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

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

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

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

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

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

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

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.	Various data related to users, mentors, 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 details	Valid annou nceme nt data	Announce ment is created successfully	(Check if the announcem ent is created as expected)	Pass

UT-30	Announcement Publication	Check if administrators can publish announcements to designated feeds.	Announcement is created	1. Locate the created announcement 2. Publish the announcement	N/A	Announcement is marked as published	(Check if the announcement is published as expected)	Pass
UT-31	Announcement Editing	Test if administrators can edit or update existing announcements.	Announcement is created	1. Locate the created announcement 2. Edit announcement details	Updated announcement data	Announcement is edited successfully	(Check if the announcement is edited as expected)	Pass
UT-32	Announcement Deletion	Ensure administrators can delete announcements.	Announcement is created	1. Locate the created announcement 2. Delete the announcement	N/A	Announcement is deleted	(Check if the announcement is deleted as expected)	Pass
UT-33	Announcement Search	Test if administrators can search for announcements.	Announcement is created	1. Perform a search for the created announcement	Search query	Announcement is found in search results		

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

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

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 announcement creation view.	Users 'club_head_user' and 'club_head' exist in the system.	Log in as 'club_head'. Access the announcement 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_manager' exists in the system.	Log in as 'social_media_manager'. 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 announcement creation view.	N/A	Access the announcement 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 authenticated user (club head) to the announcement creation view.	User 'club_head_user' exists in the system.	Log in as 'club_head_user'. Access the announcement 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 announcement.	User 'club_head_user' exists in the system.	Log in as 'club_head_user'. Submit the announcement creation form with valid data.	Title: 'Test Announcement' Content: 'This is a test announcement.' Branch IDs: [1, 2]	The status code should be 302 (redirect after successful submission), and the announcement count should increase by 1.	The status code is 302, and the announcement count increases by 1.	Passed

					(Assuming these are valid branch IDs in the system)			

Test Case ID	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-41	Mentor List	Verify that users can access a list of mentors within their branch.	User is logged in	1. Log in as a user 2. Navigate to the mentor directory	N/A	Mentor list is displayed	(Check if the mentor list is displayed as expected)	Pass
UT-42	Domain Segregation (	Test if users can filter mentors based on their domains of expertise.	User is logged in	1. Log in as a user 2. Access the mentor directory 3. Apply domain filter	User's selected domain	Only mentors in the selected domain are displayed	(Check if mentors are filtered by domain as expected)	Pass

| UT-43 | Resume Access | Check if users can access the resumes attached to mentor profiles. | User is logged in | 1. Log in as a user 2. Navigate to the mentor directory 3. Select a mentor | N/A | Mentor's resume is displayed | (Check if the mentor's resume is accessible as expected) | Pass |
| UT-44 | WhatsApp Integration | Verify that users can initiate a chat with a mentor via WhatsApp. | User is logged in | 1. Log in as a user 2. Navigate to the mentor directory 3. Select a mentor 4. Click on "Chat with Mentor" | Mentor's WhatsApp information | WhatsApp chat is initiated | (Check if WhatsApp chat is initiated as expected) | Fail |

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 organized 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

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

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

| UT-56 | Club Membership Display | Verify that the user's profile shows the clubs or groups they are a member of. | User is a member of clubs | 1. Log in as the user 2. Navigate to the profile page | Club members hips | List of club members hips is displayed | (Check if the club memberships are 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 Access	Verify that users can access the profile page of other users based on usernames.	Target user exists	1. Log in as the user 2. Navigate to another user's profile	Usernam e of another user	Other user's profile page is displayed	(Check if the profile page is accessible)	Pass
UT-58	Basic Information Display	Test if the basic information of the viewed user, including name and bio, is displayed.	Target user's profile is accessed	1. Log in as the user 2. Access another user's profile	Basic informati on of the viewed user	Basic informati on is displayed correctly	(Check if the informatio n is displayed as expected)	Pass
UT-59	Chat Option	Verify that the chat option is available and functional, allowing users to initiate a conversation with the viewed user through WhatsApp API.	Target user has permitted access to show number publicly	1. Log in as the user 2. Access another user's profile 3. Click on the chat option	-	WhatsAp p chat is initiated with the viewed user	(Check if the chat is initiated as expected)	Pass
UT-60	Posts and Resources Listing (	Test if the profile page shows a list of posts and resources shared	Target user's profile is accessed	1. Log in as the user 2. Access another user's profile	Posts and resources shared by the viewed user	List of posts and resources is displayed	(Check if the posts and resources are	Pass

		by the viewed user.					displayed as expected)	

Test Case ID	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-61	Global Search Bar (F001)	Verify that users can access the global search bar from any page within the platform.	User is logged in	1. Navigate to any page within the platform 2. Locate and click on the global search bar	-	Global search bar is accessible	(Check if the search bar is accessible)	Pass
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	Keywords, 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	Keywords, 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 Search (F004)	Test the search option for announcements based on keywords or titles.	Relevant announcements exist	1. Enter keywords or titles in the global search bar 2. Press Enter or click on the search icon	Keywords or titles for announcement search	Relevant announcements are displayed in the search results	(Check if the announcements are displayed as expected)	Pass
UT-65	Users Search (F005)	Verify that users can search for other users by name, username, or other identifying information.	Relevant users exist	1. Enter name, username, or other identifying information in the global search bar 2. Press Enter or click on the search icon	Name, username, or other identifying information for user search	Relevant users are displayed in the search results	(Check if the users are displayed as expected)	Pass
UT-66	Search Results Page (F006)	Ensure that search results are presented in a structured manner for easy user navigation.	Search results exist	1. Perform a search using the global search bar	-	Structured search results page is displayed	(Check if the search results page is structured as expected)	Pass

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

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_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_sample_pdf function.	User: {'username': 'test_user'} PDF File: Created using create_sample_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_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_sample_pdf function. target audience	User: {'username': 'test_user'} PDF File: Created using create_sample_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_sample_pdf function. Upload	User: {'username': 'test_user'} PDF File: Created using create_sample_pdf. Target Audiences: ['target_	The downloaded file should not be None. The length of the downloaded file should be greater than 0.	All assertions pass.	Pass

Test Case ID	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-70	Resource Filtering	Verify that the resource list view displays available resources.	A user with the username 'test_user' exists.	Create a test request for the resource list view.	User: {'username': 'test_user'}	The HTTP response status code should be 200, indicating a successful request.	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 resources filtered by a specific tag.	A user with the username 'test_user' 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 successfully	A user with the username 'test_user' exists. A	Create a test request for the upload resource view with sample	User: {'username': 'test_user'} Branch: {'branch_name':	The HTTP response status code should be 302, indicating a successful redirect.	The HTTP response status code should be 302, indicating	Passed

		processes a resource upload request.	branch with the name 'TestBranch' 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 download resource view successfully processes a resource download request.	A user with the username 'test_user' exists. A resource with the title 'Test Resource' 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.pdf'}	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 ID	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-74	Resource Editing	Verify that the resource editing view renders successfully.	User 'test_user' exists. Resource 'Test Resource' exists.	1. Create a test request for the edit resource view. 2. Set the user of the request to	User: {'username': 'test_user'} Resource Data: {'title': 'Test Resource'}	HTTP response status code is 200. Rendered page contains current resource details for editing.	HTTP response status code is 200. Resource details are successfully	Passed

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

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

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

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

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

Test Case ID	Name of Module	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-84	Mentor Registration Form	Ensure that a user can successfully register as a mentor by submitting a	User is logged in.	Navigate to the mentor registration form. Submit the form.	Valid resume file, domain: 'Python', description: 'Experienced Python Developer'	Mentor registration is successful, and the user is redirected to the appropriate page.	Mentor registration is successful, and the user is redirected to the appropriate page.	Pass

		resume, specifying a domain, and providing a brief description.			.			
UT-85	Mentor Registration Form	Ensure that appropriate error messages are displayed when the mentor registration form is submitted with invalid or missing information.	User is logged in.	Navigate to the mentor registration 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-month period.	User is logged in as a mentor who has recently applied.	Attempt to apply for mentorship immediately after the last application.	Mentor with a recent application.	Application is not allowed, and an appropriate message is displayed.	Application is not allowed, and an appropriate message is displayed.	Pass

UT-87	Mentor Application Time Limit	Ensure that a mentor can apply again after a six-month gap.	User is logged in as a mentor who applied more than six months ago.	Attempt to apply for mentorship after waiting for six months.	Mentor with an application 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	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result
UT-88	Home Page	Verify home page loads successfully.	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 information.	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	Announcement View	Ensure announcements display properly.	User logged in.	1. Navigate to announcements section.	Announcement data (title, content, etc.)	Announcements are visible.	Announcements displayed correctly.	Pass
UT-93	Search Bar	Test search bar functionality.	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 submissions.	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 ID	Page	Description	Pre-conditions	Test Steps	Test Data	Expected Results	Actual Results	Test Result

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

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

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