

Test Case Template and Final Contribution Statement (CS360)

Backspace



Group Number: 5

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Table of Contents

Introduction (5%) Ibrahim Sanaullah	14
Testing Environments – 5%	15
Environment used by member 1 Aswad Tariq	15
Environment used by member 2 Nashrah Shaukat	15
Environment used by member 3 Haseeb-Ur-Rehman Faheem	15
Environment used by member 4 Zeerak Babar	16
Environment used by member 5 Ibrahim Sanaullah	16
Test Cases (60%)	17
List of test cases	17
Module 1: Log In	21
TC-LOGIN-01: Incorrect Email- Performed by Aswad Tariq	21
Description	21
Pre-conditions for this test case	21
Scenario 1	21
Array of values	21
TC-LOGIN-02: Incorrect Password- Performed by Aswad Tariq	22
Description	22
Pre-conditions for this test case	22
Scenario 1	22
Array of values	23
TC-LOGIN-03: Empty Fields- Performed by Aswad Tariq	24
Description	24
Pre-conditions for this test case	24
Scenario 1	24
TC-LOGIN-04: Correct User Credentials- Performed by Aswad Tariq	25
Description	25
Pre-conditions for this test case	25
Scenario 1	25
TC-LOGIN-05: Correct Admin Credentials- Performed by Aswad Tariq	25
Description	25
Pre-conditions for this test case	26
Scenario 1	26
Module : Sign Up	26

TC-SIGNUP-01: Non Lums email- Performed by Aswad Tariq	26
Description	26
Pre-conditions for this test case	26
Scenario 1	27
Array of values	27
TC-SIGNUP-02: Inconsistent Repeat Password- Performed by Aswad Tariq	28
Description	28
Pre-conditions for this test case	28
Scenario 1	28
TC-SIGNUP-03: Empty Fields- Performed by Aswad Tariq	29
Description	29
Pre-conditions for this test case	29
Scenario 1	30
TC-SIGNUP-04: Correct Credentials- Performed by Aswad Tariq	30
Description	30
Pre-conditions for this test case	31
Scenario 1	31
Module : Updating Credentials	32
TC-CREDENTIALS-01: Updating Username- Performed by Aswad Tariq	32
Description	32
Pre-conditions for this test case	32
Scenario 1	32
TC-CREDENTIALS-02: Updating About- Performed by Aswad Tariq	33
Description	33
Pre-conditions for this test case	33
Scenario 1	33
TC-CREDENTIALS-03: Adding a Profile Picture- Performed by Aswad Tariq	33
Description	33
Pre-conditions for this test case	33
Scenario 1	33
Module : NewsFeed	34
TC-NEWSFEED-01: Viewing a Post- Performed by Nashrah Shaukat	34
Description	34
Pre-conditions for this test case	34
Scenario 1	34

TC-NEWSFEED-02: Liking a Post on Newsfeed- Performed by Nashrah Shaukat	35
Description	35
Pre-conditions for this test case	35
Scenario 1	35
TC-NEWSFEED-03: Unliking a Post on Newsfeed- Performed by Nashrah Shaukat	36
Description	36
Pre-conditions for this test case	36
Scenario 1	36
TC-NEWSFEED-04: Adding a new Post- Performed by Nashrah Shaukat	36
Description	36
Pre-conditions for this test case	36
Scenario 1	36
TC-NEWSFEED-05: Deleting a Post- Performed by Nashrah Shaukat	37
Description	37
Pre-conditions for this test case	37
Scenario 1	38
TC-NEWSFEED-06: Searching the News Feed- Performed by Nashrah Shaukat	38
Description	38
Pre-conditions for this test case	38
Scenario 1	38
Scenario 2	39
TC-NEWSFEED-07: Viewing Comments- Performed by Nashrah Shaukat	40
Description	40
Pre-conditions for this test case	40
Scenario 1	40
TC-NEWSFEED-08: Adding new Comments- Performed by Nashrah Shaukat	40
Description	40
Pre-conditions for this test case	40
Scenario 1	41
TC-NEWSFEED-09: Add empty post- Performed by Nashrah Shaukat	41
Description	41
Pre-conditions for this test case	41
Scenario 1	42
TC-NEWSFEED-10: View Profile- Performed by Nashrah Shaukat	42
Description	42
Pre-conditions for this test case	42

Scenario 1	42
TC-NEWSFEED-11: Send message from User Profile- Performed by Nashrah Shaukat	43
Description	43
Pre-conditions for this test case	43
Scenario 1	43
Module : Instructors	44
TC-INSTRUCTORS-01: Searching for Valid Instructors- Performed by Nashrah Shaukat	44
Description	44
Pre-conditions for this test case	44
Scenario 1.	44
TC-INSTRUCTORS-02: Searching for invalid Instructors- Performed by Nashrah Shaukat	45
Description	45
Pre-conditions for this test case	45
Scenario 1.	45
TC-INSTRUCTORS-03: View Instructors- Performed by Nashrah Shaukat	45
Description	45
Pre-conditions for this test case	45
Scenario 1.	46
TC-INSTRUCTORS-04: View Instructors Profile- Performed by Nashrah Shaukat	46
Description	46
Pre-conditions for this test case	46
Scenario 1.	46
TC-INSTRUCTORS-05: Add a Review- Performed by Nashrah Shaukat	47
Description	47
Pre-conditions for this test case	47
Scenario 1.	47
Module : Find Work	48
TC-FIND_WORK-01: Searching Find Work tab for valid Post- Performed by Ibrahim Sanaullah	48
Description	48
Pre-conditions for this test case	48
Scenario 1	48
TC-FIND_WORK-02: Searching Find Work tab for Invalid Post-Performed by Ibrahim Sanaullah	49
Description	49
Pre-conditions for this test case	49

Scenario 1	49
TC-FIND_WORK-03: View Find Work-Performed by Ibrahim Sanaullah	49
Description	49
Pre-conditions for this test case	50
Scenario 1.	50
TC-FIND_WORK-04: Add a Post in Find Work-Performed by Ibrahim Sanaullah	50
Description	50
Pre-conditions for this test case	50
Scenario 1.	50
Module : Subspace	52
TC-SUBSPACE-01: Searching a Valid Joined Subspaces-Performed by Nashrah Shaukat	52
Description	52
Pre-conditions for this test case	52
Scenario 1	52
TC-SUBSPACE-02: Searching an Invalid Joined Subspaces-Performed by Nashrah Shaukat	52
Description	52
Pre-conditions for this test case	52
Scenario 1	53
TC-SUBSPACE-03: View All Sub Spaces-Performed by Nashrah Shaukat	53
Description	53
Pre-conditions for this test case	53
Scenario 1.	53
TC-SUBSPACE-04: View a single Sub Space-Performed by Nashrah Shaukat	54
Description	54
Pre-conditions for this test case	54
Scenario 1.	54
TC-SUBSPACE-05: Send message in a SubSpace-Performed by Nashrah Shaukat	55
Description	55
Pre-conditions for this test case	55
Scenario 1	55
Module : Messages	56
TC-MESSAGES-01: Search for Valid Users-Performed by Haseeb-Ur-Rehman	56
Description	56
Pre-conditions for this test case	56
Scenario 1	56

TC-MESSAGES-02: Search for Invalid Users-Performed by Haseeb-Ur-Rehman	57
Description	57
Pre-conditions for this test case	57
Scenario 1	57
TC-MESSAGES-03: View all chats-Performed by Haseeb-Ur-Rehman	58
Description	58
Pre-conditions for this test case	58
Scenario 1	58
TC-MESSAGES-04: Viewing a single chat-Performed by Haseeb-Ur-Rehman	58
Description	58
Pre-conditions for this test case	58
Scenario 1	59
TC-MESSAGES-05: Send message to a single User-Performed by Haseeb-Ur-Rehman	59
Description	59
Pre-conditions for this test case	59
Scenario 1	59
TC-MESSAGES-6: Send image to a single User-Performed by Haseeb-Ur-Rehman	60
Description	60
Pre-conditions for this test case	60
Scenario 1	60
TC-MESSAGES-7: Taking image and sending to a single User-Performed by Haseeb-Ur-Rehman	61
Description	61
Pre-conditions for this test case	61
Scenario 1	61
Module : Static Pages	62
TC-STATIC-01: View FAQs- Performed by Haseeb-Ur-Rehman	62
Description	62
Pre-conditions for this test case	62
Scenario 1	62
TC-STATIC-02: View LUMS Map-Performed by Haseeb-Ur-Rehman	63
Description	63
Pre-conditions for this test case	63
Scenario 1	63
TC-STATIC-03: Zoom LUMS Map- Performed by Haseeb-Ur-Rehman	64
Description	64

Pre-conditions for this test case	64
Scenario 1	64
TC-STATIC-04: Scroll LUMS Map-Performed by Haseeb-Ur-Rehman	64
Description	64
Pre-conditions for this test case	64
Scenario 1	64
TC-STATIC-05: View Freshman Guide-Performed by Haseeb-Ur-Rehman	65
Description	65
Pre-conditions for this test case	65
Scenario 1	65
TC-STATIC-06: View Article in Freshman Guide-Performed by Haseeb-Ur-Rehman	66
Description	66
Pre-conditions for this test case	66
Scenario 1	66
TC-STATIC-07: Return to SideBar-Performed by Haseeb-Ur-Rehman	66
Description	66
Pre-conditions for this test case	66
Scenario 1	67
Module : Pending Posts	67
TC-PENDING_POST-01: View Pending Posts-Performed by Ibrahim Sanaullah	67
Description	67
Pre-conditions for this test case	67
Scenario 1	67
TC-PENDING_POST-02: Searching Pending Posts for valid Post-Performed by Ibrahim Sanaullah	68
Description	68
Pre-conditions for this test case	68
Scenario 1	68
TC-PENDING_POST-03: Searching Pending Posts for invalid Post-Performed by Ibrahim Sanaullah	68
Description	68
Pre-conditions for this test case	68
Scenario 1	69
TC-PENDING_POST-04: Approve a Post- Performed by Ibrahim Sanaullah	69
Description	69
Pre-conditions for this test case	69

Scenario 1	69
TC-PENDING_POST-05: Reject a Post-Performed by Ibrahim Sanaullah	70
Description	70
Pre-conditions for this test case	70
Scenario 1	70
Module : Approved Posts	71
TC-APPROVED_POSTS-01: View Approved Posts-Performed by Ibrahim Sanaullah	71
Description	71
Pre-conditions for this test case	71
Scenario 1	71
TC-APPROVED_POSTS-02: Searching Approved Posts for valid Post- Performed by Ibrahim Sanaullah	72
Description	72
Pre-conditions for this test case	72
Scenario 1	72
TC-APPROVED_POSTS-03: Searching Approved Posts for invalid Post- Performed by Ibrahim Sanaullah	72
Description	72
Pre-conditions for this test case	72
Scenario 1	72
TC-APPROVED_POSTS-04: Remove a Post- Performed by Ibrahim Sanaullah	73
Description	73
Pre-conditions for this test case	73
Scenario 1	73
Module : Add Events	74
TC-ADD_EVENTS-01: Adding Event Details-Performed by Ibrahim Sanaullah	74
Description	74
Pre-conditions for this test case	74
Scenario 1	74
TC-ADD_EVENTS-02: Adding Event Image-Performed by Ibrahim Sanaullah	75
Description	75
Pre-conditions for this test case	75
Scenario 1	75
TC-ADD_EVENTS-03: Adding Event with empty fields- Performed by Ibrahim Sanaullah	76
Description	76
Pre-conditions for this test case	76

Scenario 1	76
Module : Block Users	77
TC-BLOCK_USERS-01: View All Users-Performed by Zeerak Babar	77
Description	77
Pre-conditions for this test case	77
Scenario 1	78
TC-BLOCK_USERS-02: Searching Valid Users-Performed by Zeerak Babar	78
Description	78
Pre-conditions for this test case	78
Scenario 1	78
TC-BLOCK_USERS-03 Searching Invalid User - Performed by Zeerak Babar	79
Description	79
Pre-conditions for this test case	79
Scenario 1	79
TC-BLOCK_USERS-04: Block a User-Performed by Zeerak Babar	79
Description	79
Pre-conditions for this test case	79
Scenario 1	80
TC-BLOCK_USERS-05: Unblock a User-Performed by Zeerak Babar	80
Description	80
Pre-conditions for this test case	80
Scenario 1	80
Module : Create Subspace	81
TC-CREATE_SUBSPACE-01: Add Name-Performed by Zeerak Babar	81
Description	81
Pre-conditions for this test case	81
Scenario 1	81
TC-CREATE_SUBSPACE-02: Add Image-Performed by Zeerak Babar	82
Description	82
Pre-conditions for this test case	82
Scenario 1	82
TC-CREATE_SUBSPACE-03: Add About- Performed by Zeerak Babar	83
Description	83
Pre-conditions for this test case	83
Scenario 1	83

TC-CREATE_SUBSPACE-04: Create Subspace- Performed by Zeerak Babar	84
Description	84
Pre-conditions for this test case	84
Scenario 1	84
Module : Miscellaneous	86
TC-MISCELLANEOUS-01: Log out as User- Performed by Zeerak Babar	86
Description	86
Pre-conditions for this test case	86
Scenario 1	86
TC-MISCELLANEOUS-02: Log out as Admin- Performed by Zeerak Babar	87
Description	87
Pre-conditions for this test case	87
Scenario 1	87
TC-MISCELLANEOUS-03: Open User side drawer-Performed by Zeerak Babar	87
Description	87
Pre-conditions for this test case	87
Scenario 1	87
TC-MISCELLANEOUS-04: Open Admin side drawer- Performed by Zeerak Babar	88
Description	88
Pre-conditions for this test case	88
Scenario 1	88
TC-MISCELLANEOUS-05: Bottom Navigate- Performed by Zeerak Babar	89
Description	89
Pre-conditions for this test case	89
Scenario 1	89
TC-MISCELLANEOUS-06: Visit Sign Up page-Performed by Zeerak Babar	89
Description	89
Pre-conditions for this test case	89
Scenario 1	89
TC-MISCELLANEOUS-07: Visit Login page- Performed by Zeerak Babar	90
Description	90
Pre-conditions for this test case	90
Scenario 1	90
Summary of manual testing results (10%)	92
General Testing	92

Nashrah Shaukat:	92
Automated testing – (20%)	96
List of test cases used for automated testing	96
Tool: Flutter	97
Setup	97
Test cases for automated testing	98
TC-01: User Login -Performed by Haseeb-ur-Rehman Faheem	99

Work Division plan

Please share the work plan for each member.

Member name	Work done (**Clearly** write the name of sections, test case numbers, and the other ways you contributed)	Approximate Equal contribution to the group work (Yes/No) + Remarks if any
Ibrahim Sanaullah	15 Manual Test Cases Performed 4 Automated Test Cases Performed Introduction Description of Automated testing results	Yes
Nashrah Shaukat	21 Manual Test Cases Performed 4 Automated Test Cases Performed Summary of the Test Results Made list of Manual test cases	Yes
Zeera Babar	16 Manual Test Cases Performed 4 Automated Test Cases Performed Section 5.2 Automated Testing Purpose and Scope	Yes
Haseeb-ur-Rehman Faheem	14 Manual Test Cases Performed 4 Automated Test Cases Performed Formatting Final Document Made list of Automated Test Cases	Yes
Aswad Tariq	12 Manual Test Cases Performed 5 Automated Test Cases Performed Section 5.3 Automated Results	Yes

Test Cases

1. Introduction (5%) Ibrahim Sanaullah

1.1 Document Purpose

The purpose of this document is to lay out the testing plan and results of both manual and automated testing for our application Backspace. It includes the test cases used and their corresponding results. This document also serves as a way to test that the application meets the required specification that was mentioned in the Software Requirements Specification and can detect what specifications were not met or need to be met so that the application can be modified in order to achieve that. Also see what failed

1.2 Document Scope

This document contains the test cases that are being used to test the functionality of the application. The test cases have been defined for both manual testing and automated testing. Expected results have been defined for particular test cases and their results are compared with the actual results and any discrepancies are noted and written down. Testing has been done for both valid inputs and invalid inputs. In case of invalid inputs the application is tested for its ability to display error messages and not allow the user to submit invalid inputs. In the document very thorough testing has been carried out, with the test cases containing almost all the functionality of the application and the uses cases stated in the SRS.

1.3 Definitions, Acronyms and Abbreviations

SRS	Software Requirements Specification
FAQ	Frequently asked Questions
Subspace	Tabs that contain sub forums related to a specific category or genre of posts can only be created or removed by admins and users must join these subspaces to view their posts.

1.4 Overview of use cases used

All the use cases mentioned in the SRS document have been tested in this document. Use cases were divided into modules based on the parts of the application they were present at to sort them since they were large in number. For each page all the possible ways to interact with that particular page were tested, this included both validation testing and defect testing. Next to each test case, its corresponding use case from the SRS document was mapped to indicate which test case covers which use case.

1.5 Prequestises to execute tests cases

1.6.1 Software: The Backspace app can only be accessed through an Android phone. Execution of test cases also requires an internet connection since the app runs online.

1.6.2 Utilities A stable Wi-Fi connection will be needed to run the application

2. Testing Environments – 5%

2.1 Environment used by member 1 Aswad Tariq

Machine Name	Samsung A7 2018	DB Directory	https://console.firebase.google.com/project/backspace-current/firestore/data/			
Machine Specs	4 GB RAM CPU: Exynos 7885	DB	<i>Firebase</i>	Client Server /Back-End		
Device name	Samsung A750F	Device specs				
Tester Name	Aswad Tariq	Test Date	28th April 2022			

2.2 Environment used by member 2 Nashrah Shaukat

Machine Name	S22	DB Directory	https://console.firebase.google.com/project/backspace-current/firestore/data/			
Machine Specs	Qualcomm SM8450 Snapdragon 8 Gen 1 (4 nm) - ROW 8 GB RAM	DB	<i>Firebase</i>	Client Server /Back-End		
Device name	Samsung Galaxy S22	Device specs				
Tester Name	Nashrah Shaukat	Test Date		28th April 2022		

2.3 Environment used by member 3 Haseeb-Ur-Rehman Faheem

Machine Name	S8 Plus	DB Directory	https://console.firebase.google.com/project/backspace-current/firestore/data/			
Machine Specs	Qualcomm Snapdragon, 4 GB RAM,	DB	<i>Firebase</i>	Client Server /Back-End		
Device name	Samsung Galaxy S8 Plus	Device specs				

Tester Name	Haseeb-Ur-Rehman Faheem	Test Date	28th April 2022
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2.4 Environment used by member 4 Zeerak Babar

Machine Name	Samsung Galaxy A31	DB Directory	https://console.firebase.google.com/project/backspace-current/firestore/data/		
Machine Specs	Snapdragon 855 4GB RAM, Octa-core	DB	<i>Firebase</i>	Client Server /Back-End	
Device name	Samsung Galaxy A31	Device specs			
Tester Name	Zeerak Babar	Test Date	28th April 2022		

2.5 Environment used by member 5 Ibrahim Sanaullah

Machine Name	Pixel 4	DB Directory	https://console.firebase.google.com/project/backspace-current/firestore/data/		
Machine Specs	Snapdragon 855 6GB RAM, Octa-core	DB	<i>Firebase</i>	Client Server /Back-End	
Device name	Google Pixel 4	Device specs			
Tester Name	Ibrahim Sanaullah	Test Date	28th April 2022		

3. Test Cases (60%)

3.1 List of test cases

Test Case ID	Testcase name	Performed by	Successful/Failed
Module 1: Login			
TC-LOGIN-01	Incorrect Email	Aswad Tariq	Successful
TC-LOGIN-02	Incorrect Password	Aswad Tariq	Successful
TC-LOGIN-03	Empty Fields	Aswad Tariq	Successful
TC-LOGIN-04	Correct User Credentials	Aswad Tariq	Successful
TC-LOGIN-05	Correct Admin Credentials	Aswad Tariq	Successful
Module 2: Sign Up			
TC-SIGNUP-01	Non LUMS Email	Aswad Tariq	Successful
TC-SIGNUP-02	Inconsistent Repeat Password	Aswad Tariq	Successful
TC-SIGNUP-03	Empty Fields	Aswad Tariq	Successful
TC-SIGNUP-04	Correct Credentials	Aswad Tariq	Successful
Module 3: Update Credentials			
TC-CREDENTIALS-01	Update Username	Aswad Tariq	Successful
TC-CREDENTIALS-02	Update About	Aswad Tariq	Successful
TC-CREDENTIALS-03	Adding a Profile Picture	Aswad Tariq	Successful
Module 4: Newsfeed			
TC-NEWSFEED-01	View Posts	Nashrah Shaukat	Successful
TC-NEWSFEED-02	Like a Post	Nashrah Shaukat	Successful
TC-NEWSFEED-03	Unlike a Post	Nashrah Shaukat	Successful
TC-NEWSFEED-04	Add Post	Nashrah Shaukat	Successful
TC-NEWSFEED-05	Delete Post	Nashrah Shaukat	Successful
TC-NEWSFEED-06	Search a post	Nashrah Shaukat	Successful
TC-NEWSFEED-07	View Comments	Nashrah Shaukat	Successful
TC-NEWSFEED-08	Add Comments	Nashrah Shaukat	Successful

TC-NEWSFEED-09	Add Empty Post	Nashrah Shaukat	Unsuccessful
TC-NEWSFEED-10	View Profile	Nashrah Shaukat	Successful
TC-NEWSFEED-11	Send message to user from User Profile	Nashrah Shaukat	Successful
Module 5: Instructors			
TC-INSTRUCTORS-01	Searching for Valid Instructors	Nashrah Shaukat	Successful
TC-INSTRUCTORS-02	Searching for Invalid Instructors	Nashrah Shaukat	Successful
TC-INSTRUCTORS-03	View Instructors	Nashrah Shaukat	Successful
TC-INSTRUCTORS-04	View Instructor Profile	Nashrah Shaukat	Successful
TC-INSTRUCTORS-05	Add a Review	Nashrah Shaukat	Successful
Module 6: Find Work			
TC-FIND_WORK-01	View Find Work	Ibrahim Sanaullah	Successful
TC-FIND_WORK-02	Add a post on Find Work	Ibrahim Sanaullah	Successful
TC-FIND_WORK-03	Search in Find Work	Ibrahim Sanaullah	Successful
Module 7: Subspace			
TC-SUBSPACE-01	View all Subspaces	Nashrah Shaukat	Successful
TC-SUBSPACE-02	Search a valid Subspace	Nashrah Shaukat	Successful
TC-SUBSPACE-03	Search an Invalid Subspace	Nashrah Shaukat	Successful
TC-SUBSPACE-04	View a single Subspace	Nashrah Shaukat	Successful
TC-SUBSPACE-05	Send message in Subspace	Nashrah Shaukat	Successful
Module 8: Messages			
TC-MESSAGES-01	View all messages	Haseeb-ur-Rehman	Successful
TC-MESSAGES-02	Search for Valid Users	Haseeb-ur-Rehman	Successful
TC-MESSAGES-03	Search for Invalid Users	Haseeb-ur-Rehman	Successful
TC-MESSAGES-04	View Chat	Haseeb-ur-Rehman	Successful
TC-MESSAGES-05	Send a Chat	Haseeb-ur-Rehman	Successful
TC-MESSAGES-06	Send a picture from Gallery	Haseeb-ur-Rehman	Successful
TC-MESSAGES-07	Taking a picture and sending that	Haseeb-ur-Rehman	Successful

Module 9: Static Pages			
TC-STATIC-01	View FAQ	Haseeb-ur-Rehman	Successful
TC-STATIC-02	View LUMS Map	Haseeb-ur-Rehman	Successful
TC-STATIC-03	Zoom LUMS Map	Haseeb-ur-Rehman	Successful
TC-STATIC-04	Scroll LUMS Map	Haseeb-ur-Rehman	Successful
TC-STATIC-05	View Freshman Guide	Haseeb-ur-Rehman	Successful
TC-STATIC-06	View an article from Freshman Guide	Haseeb-ur-Rehman	Successful
TC-STATIC-07	Return to Sidebar	Haseeb-ur-Rehman	Successful
Module 10: Pending Posts			
TC-PENDING_POS TS-01	View Pending Posts	Ibrahim Sanaullah	Successful
TC-PENDING_POS TS-02	Search Pending Posts for valid Post	Ibrahim Sanaullah	Successful
TC-PENDING_POS TS-03	Search Pending Posts for Invalid Post	Ibrahim Sanaullah	Successful
TC-PENDING_POS TS-04	Approve a Post	Ibrahim Sanaullah	Successful
TC-PENDING_POS TS-05	Reject a post	Ibrahim Sanaullah	Successful
Module 11: Approved Posts			
TC-APPROVED_PO STS-01	Search Approved Posts for valid Post	Ibrahim Sanaullah	Successful
TC-APPROVED_PO STS-02	Search Approved Posts for invalid Post	Ibrahim Sanaullah	Successful
TC-APPROVED_PO STS-03	View Approved Posts	Ibrahim Sanaullah	Successful
TC-APPROVED_PO STS-04	Remove a Post	Ibrahim Sanaullah	Successful
Module 12: Add Events			
TC-ADD_EVENTS- 01	Add Event Details	Ibrahim Sanaullah	Successful
TC-ADD_EVENTS- 02	Add an Image	Ibrahim Sanaullah	Successful
TC-ADD_EVENTS- 03	Empty Fields	Ibrahim Sanaullah	Successful

Module 13: Block Users			
TC-BLOCK_USERS-01	Block a User	ZeeraK Babar	Successful
TC-BLOCK_USERS-02	Unblock Users	ZeeraK Babar	Successful
TC-BLOCK_USERS-03	Search Valid Users	ZeeraK Babar	Successful
TC-BLOCK_USERS-04	Search Invalid Users	ZeeraK Babar	Successful
TC-BLOCK_USERS-05	View All Users	ZeeraK Babar	Successful
Module 14: Create Subspace			
TC-CREATE_SUBSPACE-01	Add Image	ZeeraK Babar	Successful
TC-CREATE_SUBSPACE-02	Add Subspace Name	ZeeraK Babar	Successful
TC-CREATE_SUBSPACE-03	Add About	ZeeraK Babar	Successful
TC-CREATE_SUBSPACE-04	Create Subspace with all information	ZeeraK Babar	Successful
Module 15: Miscellaneous			
TC-MISCELLANEOUS-01	Logout as a User	ZeeraK Babar	Successful
TC-MISCELLANEOUS-02	Visit Sign Up Page	ZeeraK Babar	Successful
TC-MISCELLANEOUS-03	Visit Login Page	ZeeraK Babar	Successful
TC-MISCELLANEOUS-04	Logout as an Administrator	ZeeraK Babar	Successful
TC-MISCELLANEOUS-05	Open User Sidebar	ZeeraK Babar	Successful
TC-MISCELLANEOUS-06	Open Admin SideBar	ZeeraK Babar	Successful
TC-MISCELLANEOUS-07	Bottom Navigate	ZeeraK Babar	Successful

Module 1: Log In

3.2 TC-LOGIN-01: Incorrect Email- Performed by Aswad Tariq

3.2.1 Description

Check response when user enters invalid email on login page.

3.2.2 Pre-conditions for this test case

The user must already be registered with a given email and password.

3.2.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the log in option on the splash screen.		User is directed to the log in page.		Successful	
2	User enters incorrect email.	233@gmail.com	email is entered in the field.		Successful	
3	User enters a password.	testpassword	password is entered in the field.		Successful	
4	User clicks on Log In.		User is not able to log in and an error message is displayed.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.2.4 Array of values

Array of values

	Scenario 1	Scenario 2	Scenario 4	Scenario 5
Email	userone@gmail.com	@gmail.com	333@lums.edu.pk	33333333@lums.edu.pk
Password	testpassword	testpassword	testpassword	testpassword
Expected Result	User should not be able to log in.	User should not be able to log in.	User should not be able to log in.	User should not be able to log in.
Actual Result (if different from expected)				
Successful/Failed	Successful	Successful	Successful	Successful
Environment Nbr (if failed)				
Log Number (if failed)				

3.3 TC-LOGIN-02: Incorrect Password- Performed by Aswad Tariq

3.3.1 Description

Check response when user enters incorrect password on log in page.

3.3.2 Pre-conditions for this test case

The user must already be registered with a given email and password.

3.3.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the log in option on the splash screen		User is directed to the log in page.		Successful	
2	User enters correct email.	33333333@gmail.com	email is entered in the field.		Successful	
3	User enters an incorrect password.	test	password is entered in the field.		Successful	
4	User clicks on Log In		User is not able to log in and an error message is displayed.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.3.4 Array of values

Array of values				
	Scenario 1	Scenario 2	Scenario 4	Scenario 5
Email	33333333@lums.edu.pk	33333333@lums.edu.pk	33333333@lums.edu.pk	33333333@lums.edu.pk
Password	test	testss124		23
Expected Result	User should not be able to log in.	User should not be able to log in.	User should not be able to log in.	User should not be able to log in.
Actual Result (if different from expected)				

Successful/Failed	Successful	Successful	Successful	Successful
Environment Nbr (if failed)				
Log Number (if failed)				

3.4 TC-LOGIN-03: Empty Fields- Performed by Aswad Tariq

3.4.1 Description

Check response when user does not enter any data on log in page.

3.4.2 Pre-conditions for this test case

The user must already be registered with a given username and password.

3.4.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the log in option on the splash screen		User is directed to the log in page		Successful	
2	User does not enter anything for email.					
3	User does not enter anything for password.					
4	User clicks on the log in button.		User is not able to log in and an error is displayed.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.5 TC-LOGIN-04: Correct User Credentials- Performed by Aswad Tariq

3.5.1 Description

Check response when user enters valid data on log in page.

3.5.2 Pre-conditions for this test case

The user must already be registered with a given username and password.

3.5.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the log in option on the splash screen.		User is directed to the login screen.		Successful	
2	User enters an email.	User One	The email is entered in the field.		Successful	
3	User enters a password.	testpassword	The password is entered in the field.		Successful	
4	User clicks on the log in button.		User is able to log in		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.6 TC-LOGIN-05: Correct Admin Credentials- Performed by Aswad Tariq

3.6.1 Description

Check response when admin enters valid data on log in page.

3.6.2 Pre-conditions for this test case

The admin credentials must already be present in the database.

3.6.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	Admin clicks on the log in option on the splash screen.		Admin is directed to the login screen.		Successful	
2	Admin enters an email.	12345678@lums.edu.pk	The email is entered in the field.		Successful	
3	Admin enters a password.	123456	The password is entered in the field.		Successful	
4	Admin clicks on the log in button.		Admin is able to log in		Successful	

TEST CASE STATUS	SUCCESSFUL
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Module : Sign Up

3.7 TC-SIGNUP-01: Non Lums email- Performed by Aswad Tariq

3.7.1 Description

Check response when user enters invalid email on sign up page.

3.7.2 Pre-conditions for this test case

No pre-conditions required.

3.7.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	Click on the sign up option on the splash screen		User is directed to the sign up page.		Successful	
2	User enters incorrect email address	user@gmail.com	Email address is entered in the field.		Successful	
3	User enters a name	User One	Name is entered in the field.		Successful	
4	User enters a password	testpassword	Password is entered in the field.		Successful	
5	User re enters the password	testpassword	Password is entered in the field.		Successful	
6	User clicks on 'Sign Up'		User is not able to sign up and an error is displayed.		Successful	

TEST CASE STATUS

SUCCESSFUL

3.7.4 Array of values

Array of values

April 29, 2022

	Scenario 1	Scenario 2	Scenario 4	Scenario 5
Email	@gmail.com	3333@lums.edu.pk	333333333333@lums.edu.pk	@lums.edu.pk
Name	User One	User One	User One	User One
Password	testpassword	testpassword	testpassword	testpassword
Confirm Password	testpassword	testpassword	testpassword	testpassword
Expected Result	User should not be able to Sign Up.	User should not be able to Sign Up.	User should not be able to Sign Up.	User should not be able to Sign Up.
Actual Result (if different from expected)				
Successful/Failed	Successful	Successful	Successful	Successful
Environment Nbr (if failed)				
Log Number (if failed)				

3.8 TC-SIGNUP-02: Inconsistent Repeat Password- Performed by Aswad Tariq

3.8.1 Description

Check response when user enters incorrect repeat password on sign up page.

3.8.2 Pre-conditions for this test case

No pre-conditions required.

3.8.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	Click on the sign up option on the splash screen		User is directed to the sign up page.		Successful	
2	User enters correct email address	user@gmail.com	Email address is entered in the field.		Successful	
3	User enters a name	User One	Name is entered in the field.		Successful	
4	User enters a password	testpassword	Password is entered in the field.		Successful	
5	User re enters the wrong password	test	Password is entered in the field.		Successful	
6	User clicks on 'Sign Up'		User is not able to sign up and an error is displayed.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.9 TC-SIGNUP-03: Empty Fields- Performed by Aswad Tariq

3.9.1 Description

Check response when user does not enter any data on Sign Up page.

3.9.2 Pre-conditions for this test case

No pre-conditions required.

3.9.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	Click on the sign up option on the splash screen		User is directed to the sign up page.		Successful	
2	User does not enter anything.				Successful	
3	User does not enter anything				Successful	
4	User does not enter anything				Successful	
5	User does not enter anything				Successful	
6	User clicks on 'Sign Up'		User is not able to sign up and an error is displayed.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.10 TC-SIGNUP-04: Correct Credentials- Performed by Aswad Tariq

3.10.1 Description

Check response when user enters correct credentials on sign up page.

3.10.2 Pre-conditions for this test case

No pre-conditions required.

3.10.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	Click on the sign up option on the splash screen		User is directed to the sign up page.		Successful	
2	User enters correct email address	33333333@lums.edu.pk	Email address is entered in the field.		Successful	
3	User enters a name	User One	Name is entered in the field.		Successful	
4	User enters a password	testpassword	Password is entered in the field.		Successful	
5	User re enters the password	testpassword	Password is entered in the field.		Successful	
6	User clicks on 'Sign Up'		User is able to sign up and is directed to the newsfeed.		Successful	

TEST CASE STATUS	SUCCESSFUL
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Module : Updating Credentials

3.11 TC-CREDENTIALS-01: Updating Username- Performed by Aswad Tariq

3.11.1 Description

Check the application's response when the user updates their name.

3.11.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Edit Profile' page.

3.11.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User enters a new name in text field.	New User	The entered name is shown in the text field.			
3	User clicks on 'Save Changes'		The updated changes are visible on the side drawer.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.12 TC-CREDENTIALS-02: Updating About- Performed by Aswad Tariq

3.12.1 Description

Check the application's response when the user updates their Bio.

3.12.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Edit Profile' page.

3.12.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User enters a new bio in text field.	I am a CS junior.	The entered bio is shown in text field.			
3	User clicks on 'Save Changes'		The updated changes are visible when another user opens the current user's profile..		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.13 TC-CREDENTIALS-03: Adding a Profile Picture- Performed by Aswad Tariq

3.13.1 Description

Check the application's response when the user adds a new profile picture.

3.13.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Edit Profile' page.

3.13.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the image icon next to the current profile picture.		The device's gallery is opened.		Successful	
2	User selects a picture from gallery.	Selected Image	The edit profile page is displayed.		Successful	
3	User clicks on 'Save Changes'		The updated changes are visible on the side drawer.		Successful	

TEST CASE STATUS	SUCCESSFUL
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Module : NewsFeed

3.14 TC-NEWSFEED-01: Viewing a Post- Performed by Nashrah Shaukat

3.14.1 Description

The application should display all the posts on the newsfeed.

3.14.2 Pre-conditions for this test case

The user must already be logged in. The other users must have added some posts on the newsfeed which would be displayed. The user must be navigated to the newsfeed page or homescreen.

3.14.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1			The current displays all the posts which other users have added. The post containing a caption would be displayed along with their username, profile picture and a timestamp of when the post was added. On the bottom of the post should be a like option with the number of likes next to it and a comment option.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.15 TC-NEWSFEED-02: Liking a Post on Newsfeed- Performed by Nashrah Shaukat

3.15.1 Description

Check the application's response when the user likes a post on newsfeed.

3.15.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'News Feed' page. The other users must have added some posts on the newsfeed which would be displayed.

3.15.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the like icon under a post.		The like icon turns blue and the number of likes increment by one.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.16 TC-NEWSFEED-03: Unliking a Post on Newsfeed- Performed by Nashrah Shaukat

3.16.1 Description

Check the application's response when the user likes a post on newsfeed.

3.16.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'News Feed' page. The other users must have added some posts on the newsfeed which would be displayed. The post to be tested must already be liked by the current user.

3.16.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the like icon under a post.		The like icon turns to gray from blue and the number of likes decrease by one.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.17 TC-NEWSFEED-04: Adding a new Post- Performed by Nashrah Shaukat

3.17.1 Description

The user should be able to add a new post with text and image which would be displayed on the newsfeed.

3.17.2 Pre-conditions for this test case

The user must already be logged in. The user must be navigated to the newsfeed page or homescreen.

3.17.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	The user clicks on the add icon on the bottom of the screen.		The user is navigated to another screen where they can add a post.			Successful	
2	User adds a message in the text box.	"Hi!! I am looking to make new friends."	The typed message is entered in the text field.			Successful	
3	User selects an image from the gallery.	Selected Image	The user is navigated back to the page where they are supposed to add a post. The selected image also appears on the top of the page.			Successful	
4	User clicks on the 'Post' icon on the top.		The user is navigated back to the newsfeed.		The admin receives the post in the 'pending page' waiting approval.	Successful	

TEST CASE STATUS	SUCCESSFUL
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3.18 TC-NEWSFEED-05: Deleting a Post- Performed by Nashrah Shaukat

3.18.1 Description

The user should be able to delete their own post.

3.18.2 Pre-conditions for this test case

The user must already be logged in. The user must have added a new post which must have been approved by the admin and visible on the newsfeed. The user must be navigated to the 'newsfeed'.

3.18.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	The user clicks on the trash icon next to their own post.		The post is removed from the news feed.			Successful	

TEST CASE STATUS	SUCCESSFUL
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3.19 TC-NEWSFEED-06: Searching the News Feed- Performed by Nashrah Shaukat

3.19.1 Description

Check the application's response when the user searches for a keyword on the 'News Feed' page.

3.19.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'News Feed' page or homepage.

3.19.3 Scenario 1

Searching for a valid post with a valid keyword.

pre-condition: There must be a post containing the specific keyword.

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.					
2	User enters a valid keyword.	north	The keyword is entered in the text field.		Successful	
3	User clicks the search icon on their keyboard.		The screen displays the posts containing the specific keyword 'north'.		Successful	

3.19.4 Scenario 2

Searching for a post with an invalid keyword.

pre-condition: There must not be a post containing the specific keyword.

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.					
2	User enters an invalid keyword.	post	The keyword is entered in the text field.		Successful	
3	User clicks the search icon on their keyboard.		The screen displays an error "No Results Found"		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.20 TC-NEWSFEED-07: Viewing Comments- Performed by Nashrah Shaukat

3.20.1 Description

Check the application's response when the user wants to view comments on a specific post.

3.20.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'News Feed' page or homepage.

3.20.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the comment icon under a post on newsfeed.		The user is navigated to another page which shows all the comments under the post.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.21 TC-NEWSFEED-08: Adding new Comments- Performed by Nashrah Shaukat

3.21.1 Description

Check the application's response when the user wants to add a new comment on a specific post.

3.21.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'News Feed' page or homepage.

3.21.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the comment icon under a post on newsfeed.		The user is navigated to another page which shows all the comments under the post.		Successful	
2	User types a new comment in the text field on the bottom of page.	“Heyy”	The comment is entered in the text field.		Successful	
3	User clicks on the send icon next to the text box.		The users keyboard disappears and the new comment is visible under the post.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.22 TC-NEWSFEED-09: Add empty post- Performed by Nashrah Shaukat

3.22.1 Description

Check the application’s response when the user wants to add an empty post.

3.22.2 Pre-conditions for this test case

The user must already be logged in and navigated to the ‘News Feed’ page or homepage.

3.22.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	The user clicks on the add icon on the bottom of the screen.		The user is navigated to another screen where they can add a post.		Successful	
2	User clicks on the 'Post' icon on the top.		An error should be displayed and the post should not be added to news feed.		Unsuccessful	

TEST CASE STATUS	FAILED
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3.23 TC-NEWSFEED-10: View Profile- Performed by Nashrah Shaukat

3.23.1 Description

Check the application's response when the user wants to view a users profile on home screen.

3.23.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'News Feed' page or homepage.

3.23.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on any one of the posts on newsfeed.		The user is navigated to another page which shows the user profile of the user whose post was clicked on.		Successful	
2			User is able to view the profile picture and about section of the user.		Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.24 TC-NEWSFEED-11: Send message from User Profile- Performed by Nashrah Shaukat

3.24.1 Description

Check the application's response when the user wants to send a message to a user from its profile.

3.24.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'News Feed' page or homepage.

3.24.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on any one of the posts on newsfeed.		The user is navigated to another page which shows the user profile of the user whose post was clicked on.		Successful	
2			User is able to view the profile picture and about section of the user.		Successful	
3	User clicks on the 'Message' button.		User is navigated to another chat page where the user can send messages to the other user.		Successful	

TEST CASE STATUS	SUCCESSFUL
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Module : Instructors

3.25 TC-INSTRUCTORS-01: Searching for Valid Instructors- Performed by Nashrah Shaukat

3.25.1 Description

Check the application's response when the user searches for an instructor on the 'Instructors' page.

3.25.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Instructors' page.

3.25.3 Scenario 1.

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.		The device's keyboard opens up.		Successful	
2	User enters an instructor's name.	Qazi	The screen displays the profile picture and name of instructors 'Ihsan Ayyub Qazi' and 'Zafar Ayyub Qazi'..		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.26 TC-INSTRUCTORS-02: Searching for invalid Instructors- Performed by Nashrah Shaukat

3.26.1 Description

Check the application's response when the user searches for an instructor on the 'Instructors' page.

3.26.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Instructors' page.

3.26.3 Scenario 1.

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.		The device's keyboard opens up.		Successful	
2	User enters an invalid name.	test user	The screen displays 'No results found'.		Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.27 TC-INSTRUCTORS-03: View Instructors- Performed by Nashrah Shaukat

3.27.1 Description

Check the application's response when the user wants to view the list of all instructors

3.27.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'NewsFeed' page.

3.27.3 Scenario 1.

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the 'Instructors' tab on the bottom of the screen.		The user is navigated to another page where they can view a list of instructors.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.28 TC-INSTRUCTORS-04: View Instructors Profile- Performed by Nashrah Shaukat

3.28.1 Description

Check the application's response when the user wants to view an instructor's profile.

3.28.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Instructors' page.

3.28.3 Scenario 1.

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on any one of the instructors name or profile picture.		The user is navigated to another page where they can see the instructor's profile including their profile picture, number of reviews, rating and other reviews.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.29 TC-INSTRUCTORS-05: Add a Review- Performed by Nashrah Shaukat

3.29.1 Description

Check the application's response when the user wants to write a review for an instructor.

3.29.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Instructors' page.

3.29.3 Scenario 1.

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on any one of the instructors name or profile picture.		The user is navigated to another page where they can see the instructor's profile including their profile picture, number of reviews, rating and other reviews.		Successful	
2	User clicks on the add icon on the bottom right of the screen.		The user is navigated to another screen where they are able to write a review and add a rating.		Successful	
3	User chooses a rating by clicking on the number of stars they want to rate.	4	The first four stars turn yellow		Successful	
4	User clicks on the text field at the bottom and writes a review.	Best Instructor at Lums	The review is entered in to the text field.		Successful	
5	User clicks on the 'Post' button.		The user is navigated back to the Instructor's Profile and the new review can be seen on the page.		Successful	

TEST CASE STATUS	SUCCESSFUL
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Module : Find Work

3.30 TC-FIND_WORK-01: Searching Find Work tab for valid Post- Performed by Ibrahim Sanaullah

3.30.1 Description

Check the application's response when the user searches for a keyword on the 'Work' tab.

3.30.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Work' page.

3.30.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.		The device's keyboard comes up.		Successful	
2	User enters a valid keyword.	developer	The screen displays the posts containing the specific keyword developer.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.31 TC-FIND_WORK-02: Searching Find Work tab for Invalid Post-Performed by Ibrahim Sanaullah

3.31.1 Description

Check the application's response when the user searches for a keyword on the 'Work' tab.

3.31.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Work' page.

3.31.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.		The device's keyboard comes up.		Successful	
2	User enters an invalid keyword.	post	The screen displays 'No results found'.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.32 TC-FIND_WORK-03: View Find Work-Performed by Ibrahim Sanaullah

3.32.1 Description

Check the application's response when the user wants to view the posts in 'Find Work'

3.32.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'NewsFeed' page.

3.32.3 Scenario 1.

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the 'Find Work' tab on the bottom of the screen.		The user is navigated to another page where they can view a list of posts related to work.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.33 TC-FIND_WORK-04: Add a Post in Find Work-Performed by Ibrahim Sanaullah

3.33.1 Description

Check the application's response when the user wants to add a post on the 'Find Work' page.

3.33.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Find Work' page.

3.33.3 Scenario 1.

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the add icon on the bottom right of the screen.		The user is navigated to another screen where they are able to write a review and add a rating.		Successful	
2	User clicks on the text field at the bottom and writes a post.	Need tuitions for 2 5 graders.	The caption is entered in to the text field.		Successful	
3	User clicks on the 'Post' button.		The user is navigated back to the Find Work's page and the new post can be seen on the page.		Successful	

TEST CASE STATUS	SUCCESSFUL
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Module : Subspace

3.34 TC-SUBSPACE-01: Searching a Valid Joined Subspaces-Performed by Nashrah Shaukat

3.34.1 Description

Check the application's response when the user searches for a subspace on the 'Subspace' page.

3.34.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Subspace' page.

3.34.3 Scenario 1

Searching for a valid subspace with a valid keyword.

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.		The device's keyboard shows up		Successful	
2	User enters a valid keyword.	Gaming	The screen displays the subspace 'Gaming'.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.35 TC-SUBSPACE-02: Searching an Invalid Joined Subspaces-Performed by Nashrah Shaukat

3.35.1 Description

Check the application's response when the user searches for a subspace on the 'Subspace' page.

3.35.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Subspace' page.

3.35.3 Scenario 1

Searching for a subspace with a invalid keyword.

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.		The device's keyboard shows up		Successful	
2	User enters an invalid keyword.	post	The screen displays 'No results found'.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.36 TC-SUBSPACE-03: View All Sub Spaces-Performed by Nashrah Shaukat

3.36.1 Description

Check the application's response when the user wants to view the subspaces.

3.36.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'NewsFeed' page.

3.36.3 Scenario 1.

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the ' Sub Space' tab on the bottom of the screen.		The user is navigated to another page where they can view a list of subspaces.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.37 TC-SUBSPACE-04: View a single Sub Space-Performed by Nashrah Shaukat

3.37.1 Description

Check the application's response when the user wants to view a specific subspace.

3.37.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Sub Spaces' page.

3.37.3 Scenario 1.

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on any one of the subspaces' name or picture.		The user is navigated to another page where they can see the group chat among all the members of the subspace.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.38 TC-SUBSPACE-05: Send message in a SubSpace-Performed by Nashrah Shaukat

3.38.1 Description

Check the application's response when a user sends a message in a Subspace.

3.38.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Sub Spaces' page.

3.38.3 Scenario 1

Sending only a text message.

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post Condition	Successful/Failed	Log Number (if failed)
1	User clicks on any one of the subspaces name.		The user is navigated to another page which displays all the chat among the group members.			Successful	
2	User enters a message in the text field.	"hello!!"	The message is entered in the text field.			Successful	
3	User clicks on the send icon.		The screen displays the message sent in the subspace.		Other users in the group chat can see the messages as well.	Successful	

TEST CASE STATUS	SUCCESSFUL
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Module : Messages

3.39 TC-MESSAGES-01: Search for Valid Users-Performed by Haseeb-Ur-Rehman

3.39.1 Description

Check the application's response when the user searches for another user on the 'Messages' page.

3.39.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Messages' page.

3.39.3 Scenario 1

Searching for a valid user.

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.		The device's keyboard shows up.		Successful	
2	User enters another user's name	Aswad tariq	The screen displays the name and profile picture of 'Aswad Tariq'.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.40 TC-MESSAGES-02: Search for Invalid Users-Performed by Haseeb-Ur-Rehman

3.40.1 Description

Check the application's response when the user searches for another user on the 'Messages' page.

3.40.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Messages' page.

3.40.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.		The device's keyboard shows up.		Successful	
2	User enters an invalid user name.	test user	The screen displays 'No results found'.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.41 TC-MESSAGES-03: View all chats-Performed by Haseeb-Ur-Rehman

3.41.1 Description

Check the application's response when the user clicks on the 'Messages' tab to view all their chats with other users.

3.41.2 Pre-conditions for this test case

The user must already be logged in. The user must have exchanged messages with another user which would be displayed.

3.41.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the messages tab on the bottom navigation.		The screen should display all the users the current user has exchanged messages with. The screen should also display the most recent message exchanged next to the users name and also a timestamp of the most recent message.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.42 TC-MESSAGES-04: Viewing a single chat-Performed by Haseeb-Ur-Rehman

3.42.1 Description

Check the application's response when the user clicks on a specific user to view chat with them.

3.42.2 Pre-conditions for this test case

The user must already be logged in. The user must have exchanged messages with another user which would be displayed. The user must have navigated to the "messages" tab.

3.42.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the profile of a single user on the 'messages' screen.		The user is navigated to another screen which displays all the messages exchanged with that user.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.43 TC-MESSAGES-05: Send message to a single User-Performed by Haseeb-Ur-Rehman

3.43.1 Description

Check the application's response when a user sends a message to another user.

3.43.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Messages' page. The user must search for a valid user in the 'Messages' screen and tap on the user to view the chat screen.

3.43.3 Scenario 1

Sending only a text message.

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post Condition	Successful/Failed	Log Number (if failed)
1	User enters a message in the text field.	message: "hello!!"					
2	User clicks on the send icon.		The screen displays the message sent to the other user.		The user whom the message is sent to, receives the message in the chat.	Successful	

TEST CASE STATUS	SUCCESSFUL
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3.44 TC-MESSAGES-6: Send image to a single User-Performed by Haseeb-Ur-Rehman

3.44.1 Description

Check the application's response when a user sends an image to another user.

3.44.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Messages' page. The user must search for a valid user in the 'Messages' screen and tap on the user to view the chat screen.

3.44.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post Condition	Successful/Failed	Log Number (if failed)
1	User clicks on the gallery icon.		The device's gallery opens.				
2	User selects an image from the device.	Image Selected					
3	User clicks on the send icon.		The screen displays the image sent to the other user.		The user whom the image is sent to receives the image in the chat.	Successful	
TEST CASE STATUS				SUCCESSFUL			

3.45 TC-MESSAGES-7: Taking image and sending to a single User-Performed by Haseeb-Ur-Rehman

3.45.1 Description

Check the application's response when a user sends an image to another user.

3.45.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Messages' page. The user must search for a valid user in the 'Messages' screen and tap on the user to view the chat screen.

3.45.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post Condition	Successful/Failed	Log Number (if failed)
1	User clicks on the image icon.		The device's camera opens up.				
2	User takes a picture from the device.	Picture that is taken					
3	User clicks on the send icon.		The screen displays the image sent to the other user.		The user whom the image is sent to receives the image in the chat.	Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

Module : Static Pages

3.46 TC-STATIC-01: View FAQs- Performed by Haseeb-Ur-Rehman

3.47 Description

User should be able to view the FAQs.

3.47.1 Pre-conditions for this test case

The user must already be logged in and navigated to the 'News Feed' page.

3.47.2 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	Click On Sidebar		The Sidebar opens		Successful	
2	Click on the View FAQs section		The FAQs screen appears and the user can view them.		Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.48 TC-STATIC-02: View LUMS Map-Performed by Haseeb-Ur-Rehman

3.48.1 Description

User should be able to view the Lums Map

3.48.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'News Feed' page.

3.48.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	Click On Sidebar		The Sidebar opens		Successful	
2	Click on the "LUMS Map" section		The map of lums appears on the screen		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.49 TC-STATIC-03: Zoom LUMS Map- Performed by Haseeb-Ur-Rehman

3.49.1 Description

User should be able to zoom in and out of the Lums Map

3.49.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'News Feed' page.

3.49.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	Click On Sidebar		The Sidebar opens		Successful	
2	Click on the "LUMS Map" section		The map of lums appears on the screen		Successful	
3	The user pinches out on the screen.		The map is zoomed in on that spot.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.50 TC-STATIC-04: Scroll LUMS Map-Performed by Haseeb-Ur-Rehman

3.51 Description

User should be able to scroll the Lums Map up and down.

3.51.1 Pre-conditions for this test case

The user must already be logged in and navigated to the 'News Feed' page.

3.51.2 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	Click On Sidebar		The Sidebar opens		Successful	
2	Click on the “LUMS Map” section		The map of lums appears on the screen		Successful	
3	The user moves the screen up and down.		The map scrolls up and down depending on the movement.		Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.52 TC-STATIC-05: View Freshman Guide-Performed by Haseeb-Ur-Rehman

3.52.1 Description

User should be able to view the Freshman Guide.

3.52.2 Pre-conditions for this test case

The user must already be logged in and navigated to the ‘News Feed’ page.

3.52.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	Click On Sidebar		The Sidebar opens		Successful	
2	Click on the “Freshman Guide” section		All the available articles in the Freshman Guide appear in front of the user		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.53 TC-STATIC-06: View Article in Freshman Guide-Performed by Haseeb-Ur-Rehman

3.53.1 Description

User should be able to view the Freshman Guide

3.53.2 Pre-conditions for this test case

The user must already be logged in and has opened the Freshman Guide.

3.53.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	Click On an article in the Freshman Guide		The article opens and the user is able to read it		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.54 TC-STATIC-07: Return to SideBar-Performed by Haseeb-Ur-Rehman

3.54.1 Description

User should be able to go back to the side bar after having opened one of the screens from the side bar.

3.54.2 Pre-conditions for this test case

The user must already be logged in and has opened the Freshman Guide.

3.54.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the back button on the top left of the screen.		The user is navigated back to the side bar.		Successful	

TEST CASE STATUS	SUCCESSFUL
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Module : Pending Posts

3.55 TC-PENDING_POST-01: View Pending Posts-Performed by Ibrahim Sanaullah

3.55.1 Description

User should be able to view the pending posts.

3.55.2 Pre-conditions for this test case

The user must already be logged in.

3.55.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the Side Bar.		The side bar opens.		Successful	
2	User clicks on 'Pending Posts'		The user is navigated to another page with a list of all the pending posts.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.56 TC-PENDING_POST-02: Searching Pending Posts for valid Post-Performed by Ibrahim Sanaullah

3.56.1 Description

Check the application's response when the user searches for a keyword on the 'Pending Posts' tab.

3.56.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Pending Posts' page.

3.56.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.		The device's keyboard comes up.		Successful	
2	User enters a valid keyword.	shirt	The screen displays the posts containing the specific keyword shirt.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.57 TC-PENDING_POST-03: Searching Pending Posts for invalid Post-Performed by Ibrahim Sanaullah

3.57.1 Description

Check the application's response when the user searches for a keyword on the 'Pending Posts' tab.

3.57.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Pending Posts' page.

3.57.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.		The device's keyboard comes up.		Successful	
2	User enters an invalid keyword.	post	The screen displays 'No results found'.		Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.58 TC-PENDING_POST-04: Approve a Post- Performed by Ibrahim Sanaullah

3.58.1 Description

Check the application's response when the user wants to approve a post.

3.58.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Pending Posts' page.

3.58.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the 'approve' button under any one of the posts.		The page is reloaded and the approved post is removed from the pending posts page.		Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.59 TC-PENDING_POST-05: Reject a Post-Performed by Ibrahim Sanaullah

3.59.1 Description

Check the application's response when the user wants to reject a post.

3.59.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Pending Posts' page.

3.59.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the 'reject' button under any one of the posts.		The page is reloaded and the rejected post is removed from the pending posts page.		Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

Module : Approved Posts

3.60 TC-APPROVED_POSTS-01: View Approved Posts-Performed by Ibrahim Sanaullah

3.60.1 Description

User should be able to view the approved posts.

3.60.2 Pre-conditions for this test case

The user must already be logged in.

3.60.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the Side Bar.		The side bar opens.		Successful	
2	User clicks on 'Approved Posts'		The user is navigated to another page with a list of all the approved posts.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.61 TC-APPROVED_POSTS-02: Searching Approved Posts for valid Post- Performed by Ibrahim Sanaullah

3.61.1 Description

Check the application's response when the user searches for a keyword on the 'Approved Posts' tab.

3.61.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Approved Posts' page.

3.61.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.		The device's keyboard comes up.		Successful	
2	User enters a valid keyword.	shirt	The screen displays the posts containing the specific keyword shirt.		Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.62 TC-APPROVED_POSTS-03: Searching Approved Posts for invalid Post- Performed by Ibrahim Sanaullah

3.62.1 Description

Check the application's response when the user searches for a keyword on the 'Approved Posts' tab.

3.62.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Approved Posts' page.

3.62.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.		The device's keyboard comes up.		Successful	
2	User enters an invalid keyword.	post	The screen displays 'No results found'.		Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.63 TC-APPROVED_POSTS-04: Remove a Post- Performed by Ibrahim Sanaullah

3.63.1 Description

Check the application's response when the user wants to remove an approved post.

3.63.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Approved Posts' page.

3.63.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the 'reject' button under any one of the posts.		The page is reloaded and the rejected post is removed from the approved posts page.		Successful	

TEST CASE STATUS	SUCCESSFUL
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Module : Add Events

3.64 TC-ADD_EVENTS-01: Adding Event Details-Performed by Ibrahim Sanaullah

3.64.1 Description

The user should be able to add a new event with event details.

3.64.2 Pre-conditions for this test case

The user must already be logged in. The user must be navigated to the 'add events' page.

3.64.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	The user clicks on the event details text field.		The device's keyboard shows up.			Successful	
2	User adds a caption in the text box.	Welcome to the Pet Day.	The typed message is entered in the text field.			Successful	
3	User clicks on 'Add Event'.		The user is navigated back to the 'Approved Posts' page			Successful	

TEST CASE STATUS	SUCCESSFUL
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3.65 TC-ADD_EVENTS-02: Adding Event Image-Performed by Ibrahim Sanallah

3.65.1 Description

The user should be able to add a new event with an event image.

3.65.2 Pre-conditions for this test case

The user must already be logged in. The user must be navigated to the 'add events' page.

3.65.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	The user clicks on the add image icon.		The device's gallery opens up.			Successful	
2	User selects an image from the gallery.	Selected Image	The selected image is displayed on the screen.			Successful	
3	User clicks on 'Add Event'		The user is navigated back to the 'Approved Posts' page			Successful	

TEST CASE STATUS	SUCCESSFUL
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3.66 TC-ADD_EVENTS-03: Adding Event with empty fields- Performed by Ibrahim Sanaullah

3.66.1 Description

Check the applications response when the user attempts to add a new event with empty fields.

3.66.2 Pre-conditions for this test case

The user must already be logged in. The user must be navigated to the 'add events' page.

3.66.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	User clicks on 'Add Event'		An error is displayed "Please enter something"			Successful	

TEST CASE STATUS	SUCCESSFUL
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Module : Block Users

3.67 TC-BLOCK_USERS-01: View All Users-Performed by Zeerak Babar

3.67.1 Description

User should be able to view all the users in the 'Block Users' page.

3.67.2 Pre-conditions for this test case

The user must already be logged in.

3.67.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the Side Bar.		The side bar opens.		Successful	
2	User clicks on 'Block Users'		The user is navigated to another page with a list of all the registered users.		Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.68 TC-BLOCK_USERS-02: Searching Valid Users-Performed by Zeerak Babar

3.68.1 Description

Check the application's response when the user searches for a user.

3.68.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Block Users' page.

3.68.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.		The device's keyboard comes up.		Successful	
2	User enters another users name.	Ali Haider	The screen displays the name and profile picture of the user.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.69 TC-BLOCK_USERS-03 Searching Invalid User - Performed by Zeerak Babar

3.69.1 Description

Check the application's response when the user searches for an invalid user.

3.69.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Block Users' page.

3.69.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the search field on the top.		The device's keyboard comes up.		Successful	
2	User enters another users name.	post	The screen displays 'No results found'.		Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.70 TC-BLOCK_USERS-04: Block a User-Performed by Zeerak Babar

3.70.1 Description

Check the application's response when the user wants to block a user.

3.70.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Block Users' page.

3.70.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the 'block' button next to the users name.		The block button is replaced by an 'Unblock' button.		Successful	

TEST CASE STATUS	SUCCESSFUL
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3.71 TC-BLOCK_USERS-05: Unblock a User-Performed by Zeerak Babar

3.71.1 Description

Check the application's response when the user wants to unblock a user.

3.71.2 Pre-conditions for this test case

The user must already be logged in and navigated to the 'Block Users' page. There should be a user already block who is wished to be unblocked.

3.71.3 Scenario 1

Test Case						
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Successful/Failed	Log Number (if failed)
1	User clicks on the 'Unblock' button next to the user's name.		The block button is replaced by a 'Block' button.		Successful	
TEST CASE STATUS				SUCCESSFUL		

Module : Create Subspace

3.72 TC-CREATE_SUBSPACE-01: Add Name-Performed by Zeerak Babar

3.72.1 Description

The user should be able to create a new subspace with subspace name.

3.72.2 Pre-conditions for this test case

The user must already be logged in. The user must be navigated to the 'Create Subspace' page.

3.72.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	The user clicks on the subspace name text field.		The device's keyboard shows up.			Successful	
2	User adds a name in the text field.	Literature	The typed message is entered in the text field.			Successful	
3	User clicks on 'Create Subspace'.		An error is displayed on the screen.			Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.73 TC-CREATE_SUBSPACE-02: Add Image-Performed by Zeerak Babar

3.73.1 Description

The user should be able to add a new subspace with an image.

3.73.2 Pre-conditions for this test case

The user must already be logged in. The user must be navigated to the 'Create Subspace' page.

3.73.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	The user clicks on the add image icon.		The device's gallery opens up.			Successful	
2	User selects an image from the gallery.	Selected Image	The selected image is displayed on the screen.			Successful	
3	User clicks on 'Create Subspace'		An error is displayed.			Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.74 TC-CREATE_SUBSPACE-03: Add About- Performed by Zeerak Babar

3.74.1 Description

The user should be able to add a new subspace with an about section.

3.74.2 Pre-conditions for this test case

The user must already be logged in. The user must be navigated to the 'Create Subspace' page.

3.74.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	The user clicks on the subspace about text field.		The device's keyboard shows up.			Successful	
2	User adds a name in the text field.	For all the literature lovers out there.	The typed message is entered in the text field.			Successful	
3	User clicks on 'Create Subspace'.		An error is displayed on the screen.			Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.75 TC-CREATE_SUBSPACE-04: Create Subspace- Performed by Zeerak Babar

3.75.1 Description

The user should be able to add a new subspace with an about section.

3.75.2 Pre-conditions for this test case

The user must already be logged in. The user must be navigated to the 'Create Subspace' page.

3.75.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	The user clicks on the add image icon.		The device's gallery opens up.			Successful	
2	User selects an image from the gallery.	Selected Image	The selected image is displayed on the screen.			Successful	
3	The user clicks on the subspace name text field.		The device's keyboard shows up.			Successful	
4	User adds a name in the text field.	Literature	The typed message is entered in the text field.			Successful	
4	The user clicks on the subspace about text field.		The device's keyboard shows up.			Successful	
6	User adds a name in the text field.	For all the literature lovers out there.	The typed message is entered in the text field.			Successful	
7	User clicks on 'Create Subspace'.		The user is navigated back to the homepage.			Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

Module : Miscellaneous

3.76 TC-MISCELLANEOUS-01: Log out as User- Performed by Zeerak Babar

3.76.1 Description

The user should be able to logout.

3.76.2 Pre-conditions for this test case

The user must already be logged in.

3.76.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	The user clicks on the side navigator.		The side drawer opens up.			Successful	
2	User clicks on 'Log Out' at the bottom.		The user is navigated back to the splash screen.			Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.77 TC-MISCELLANEOUS-02: Log out as Admin- Performed by Zeerak Babar

3.77.1 Description

The Admin should be able to logout.

3.77.2 Pre-conditions for this test case

The Admin must already be logged in.

3.77.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	The user clicks on the side navigator.		The side drawer opens up.			Successful	
2	User clicks on 'Log Out' at the bottom.		The user is navigated back to the splash screen.			Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.78 TC-MISCELLANEOUS-03: Open User side drawer-Performed by Zeerak Babar

3.78.1 Description

The user should be able to use the side drawer.

3.78.2 Pre-conditions for this test case

The user must already be logged in. The user must be present on any of the pages on the bottom navigation.

3.78.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	The user clicks on the side navigator buttons on top left.		The side drawer opens up.			Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.79 TC-MISCELLANEOUS-04: Open Admin side drawer- Performed by Zeerak Babar

3.79.1 Description

The user should be able to use the side drawer.

3.79.2 Pre-conditions for this test case

The user must already be logged in.

3.79.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	The user clicks on the side navigator buttons on top left.		The side drawer opens up.			Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.80 TC-MISCELLANEOUS-05: Bottom Navigate- Performed by Zeerak Babar

3.80.1 Description

The user should be able to use the bottom navigator.

3.80.2 Pre-conditions for this test case

The user must already be logged in. The user must be navigated to the newsfeed.

3.80.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	The user clicks on the 'Instructor' tab on the bottom of the screen.		The user is navigated to another page with the title 'Instructor'.			Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.81 TC-MISCELLANEOUS-06: Visit Sign Up page-Performed by Zeerak Babar

3.81.1 Description

The user should be able to sign up.

3.81.2 Pre-conditions for this test case

The user should be present on the splash screen.

3.81.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	The user clicks on the 'Sign Up' page on the splash screen.		The user is navigated to another page with the title 'Sign Up'.			Successful	

TEST CASE STATUS	SUCCESSFUL
------------------	------------

3.82 TC-MISCELLANEOUS-07: Visit Login page- Performed by Zeerak Babar

3.82.1 Description

The user should be able to log in..

3.82.2 Pre-conditions for this test case

The user should be present on the splash screen.

3.82.3 Scenario 1

Test Case							
UC Step	Step Description	Data/Value (1 to n)	Expected Result	Actual Result	Post-Condition	Successful/Failed	Log Number (if failed)
1	The user clicks on the 'Log In' page on the splash screen.		The user is navigated to another page with the title 'Log In'.			Successful	

TEST CASE STATUS	SUCCESSFUL
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April 29, 2022

4. Summary of manual testing results (10%)

General Testing

The overall testing was thorough and covered almost all functionality of the application. The testing was very successful as the application passed 98.6% of the test cases, and was correctly behaving in both defect training and validation training. Such thorough testing helped us identify the error present in the application which would otherwise have gone undetected. Although non functional requirements were not explicitly tested, going through the process of manually testing we were able to see the performance of the application which performed well since the pages were loading within time and there were minimal delays while using the application. For the future, the error present in the application will be fixed since the user should not be allowed to add post without any text in it, we will modify the code such that if the user tries to do so it will display a relevant error message, and the application will also be tested by users which can further help us detect any potential errors so we may fix them.

Nashrah Shaukat:

I performed a total of 21 manual test cases. The first set of test cases corresponded to the functionality of the newsfeed. This included all the functionality related to the posts and viewing the newsfeed. All the test cases passed in these cases. All the new posts added were updated at our backend including any new comments that were being added or any new pictures or the increase and decrease in the number of likes. As soon as the changes were made they were also visible on the application on the users end. There was minimal delay. The second set included testing the instructors tab. This included all the test cases related to adding new reviews or viewing the already present review. The new reviews were efficiently being added to our database and once they were added they were also seen from the users end on the device. The Subspace module was also tested. These included testing whether all the subspaces were visible and accessible. The chat feature in the subspaces was also tested thoroughly and all the messages being sent in the group chats were being received by other users as well. These included both the text messages and the pictures. For all these modules the search feature was also tested and all the test cases related to search also passed.

Aswad Tariq:

I performed a total of 12 manual test cases. This included testing the login, sign up module and the updating credentials module. For log in the test cases were designed to test each functionality of login and all the test cases were passed. These included testing when the user tries to log in with the wrong credentials. It was made sure that the user is only able to log in once they enter the correct credentials present in our database. The test cases also ensured that a user only logs in once they have signed up with an account and not otherwise. The sign up module was also thoroughly tested and passed all the test cases. Our application was designed for lums students only hence in our development phase it was made sure that the user is only able to sign up with a lums email. Other checks included checking whether they enter the same repeat passwords for our text fields. The third module being tested was one user trying to update their credentials. For this part the aim was that the user successfully updates their name, bio and profile picture. While the test cases passed and the changes were being updated to our database, there was a flaw in our UI which made it difficult for the user to assess the changes. The current name and the bio of the user were not being displayed on the edit profile screen giving the impression that the user currently has no name or bio. However once the user entered the name and bio it was being updated correctly. This was a minor flaw and can be easily fixed in our code.

Ibrahim Sanaullah:

I performed a total of 15 manual test cases. This included testing the find work module from the users side and the pending posts, approved posts and add events from the admin side. The find work module is similar to the newsfeed where the user is able to add new posts and search for posts. The test

cases were designed to see whether the new posts were being added accurately and all the test cases were passed. The user was also able to search for posts with a specific keyword. When adding a post, the post is updated on our backend and the user can instantly see the new post on the find work tab. The other modules I tested were from the admin side. One thing noticeable was that the pages took a much longer time to load than from the users side. This is one flaw of the performance that could be improved. For the pending posts page the test cases aimed to check the functionality of the buttons once the user clicked on 'reject' or 'approve'. Clicking these buttons meant the respective posts should be updated to the database and should be seen in other pages like approved posts'. All the test cases passed for this module. The other module included 'approved posts' which was similar to 'pending posts'. All the tests performed were also similar and all of them passed as well. The third module was 'add events'. This checked whether the admin was successfully able to add events or not. Once added they should be visible from the user's side. These test cases passed as well.

Haseeb-ur-Rehman:

I performed a total of 14 manual test cases. These included testing the module messages and static pages. The messages part included testing the functionality of all the features of the messaging page. The user should be able to send messages to new users by searching their name. The messages sent by the user should also be visible to the user the messages are sent to. All test cases pertaining to this were successful and the messages were successfully being exchanged. The user should also be able to view the list of all the messages sent to the current user. The test cases also ensured that the user is able to send both text messages and pictures in the chat. The other module I tested were the static pages. These included the pages that were mostly hardcoded and had little interaction with other pages and units. These included the FAQ page, the lums map, and the freshman guide. All the test cases passed for these pages. Another testing was done to check whether the user was able to return back to the sidebar from these pages. The test cases passed in this case as well.

Zeerak Babar:

I performed a total of 16 manual test cases. The modules included block users, create subspace and miscellaneous. The block users module is present on the admin side in which the admin must be able to search for users and block and unblock them. If they are blocked or unblocked, the changes should instantly be visible on the page and the database should be updating accordingly. All the test cases passed for this module. For the create subspace module the admin should be able to create a new subspace by adding a name, picture and about. The text fields were being filled correctly and once the admin clicks on the 'create' button, the new subspace should be visible to the users on the 'subspaces' page. All the test cases for this module passed as well. The third module includes miscellaneous functionalities including whether a user is able to log out from the device. It also included checking the functionality of the sidebar from the admin and users side. The bottom navigation from the users side was also tested thoroughly for all the tabs. All the navigations from one page to another were working correctly and all the test cases for this module passed as well.

Test Cases Performed	Successful	Failed
Overall		
78	77	1
Module: Login		
5	5	0
Module: Sign Up		
4	4	0
Module: Update Credentials		
3	3	0
Module: NewsFeed		
11	10	1
Module: Instructors		
5	5	0
Module: Find Work		
3	3	0
Module: Subspace		
5	5	0

April 29, 2022

Module: Messages		
7	7	0
Module: Static Pages		
7	7	0
Module: Pending Posts		
5	5	0
Module: Approved Posts		
4	4	0
Module: Add Event		
3	3	0
Module: Block Users		
5	5	0
Module: Create Subspace		
4	4	0
Module: Miscellaneous		
7	7	0

5. Automated testing – (20%)

Purpose: The purpose of automated testing is to detect errors in the application which can then be used to improve the functionality it can give insights into how the application functions, It allows the application to be tested on multiple devices. It will also allow us to detect any potential errors that might have been missed during manual testing.

Scope: This section covers all the main test cases of the application that cover the majority of the functionality of the application and unlike manual testing not all the functionality of the application was covered. Automated tests are run with an expected input in mind and the actual output is compared with the expected results.

Contribution: All the team members worked collectively on the automated testing. The testing was done on a single device, with each member performing their own respective test cases according to the table below. Other than that the other contributions to the document are as follows:

Section 5.2 - Zeerak Babar

Section 5.3 - Aswad Tariq

Section 5.4 - Automated tests - Aswad Tariq

Section 5.4- Description of results - Ibrahim Sanaullah

5.1 List of test cases used for automated testing

Test Case ID	Testcase name	Performed by	Successful/Failed
TC-01	User Login	Haseeb-ur-Rehman Faheem	Successful
TC-02	Admin Login	Haseeb-ur-Rehman Faheem	Successful
TC-03	Signup	Haseeb-ur-Rehman Faheem	Successful
TC-04	Like a Post	Haseeb-ur-Rehman Faheem	Successful
TC-05	Add a comment	Aswad Tariq	Successful
TC-06	Add a post	Ibrahim Sanaullah	Successful
TC-07	Add find Work	Ibrahim Sanaullah	Successful
TC-08	Search Instructor	Ibrahim Sanaullah	Successful
TC-09	Add Instructor Review	Ibrahim Sanaullah	Successful
TC-10	Logout	Ibrahim Sanaullah	Successful

TC-11	Search User	Zeera Babar	Successful
TC-12	Send Message	Zeera Babar	Successful
TC-13	Update Username	Zeera Babar	Successful
TC-14	Update About	Zeera Babar	Successful
TC-15	Approve Post	Nashrah Shaukat	Successful
TC-16	Deny Post	Nashrah Shaukat	Successful
TC-17	Delete Post	Nashrah Shaukat	Successful
TC-18	Create Subspace	Aswad Tariq	Successful
TC-19	Add event	Aswad Tariq	Successful
TC-20	Block User	Aswad Tariq	Successful
TC-21	Unblock User	Aswad Tariq	Successful

5.2 Tool: Flutter

Flutter provides built-in automated testing in this case we made our own custom integration tests using flutter integration test dependencies, the reason for not doing unit tests is a lack of time as there were too many individual functions and widget methods to be tested. Integration testing would test the behavior of our widgets and their interactions to show how they behave giving a more complete overview of what can and will go wrong during usage. In short, integration testing dependencies help us design and make tests that test the majority of the application and features in the least amount of time.

5.3 Setup

The main steps are as follows:

- Add the integration_test dependency.
- Create the test files.
- Write the integration test.
- Run the integration test.

Adding dependency:

In the pubspec.yaml file add the following dependencies under the dev_dependencies

```
integration_test:
  sdk: flutter
```

```
flutter_test:
```

```
  sdk: flutter
```

Create the test files:

- Make a directory in the root of your project named `integration_test`. Inside make our individual testing files.

Write the integration tests:

- Create a dart file within the tests directory and create a main function within it with return type void.
- Add important package imports to this file dependencies that we added i.e. `flutter_test/flutter_test.dart` and `integration_test/integration_test.dart`.
- In the main function add the following line `IntegrationTestWidgetsFlutterBinding.ensureInitialized();`
- Write the testing logic which buttons to click which fields to fill within this main function.

Run the integration test:

- Run an individual file by typing `flutter test [filepath]`.
- Alternatively run `flutter test [test_dirname]`

5.4 Test cases for automated testing

TC-01: User Login -Performed by Haseeb-ur-Rehman Faheem

Description	Successful/Failed
Check if the test code is able to login using valid credentials	Successful

TC-02: Admin Login -Performed by Haseeb-ur-Rehman Faheem

Description	Successful/Failed
Check if the test code is able to login using valid credentials	Successful

TC-03: Signup -Performed by Haseeb-ur-Rehman Faheem

Description	Successful/Failed
Check if the test code is able to sign up using valid credentials	Successful

TC-04: Like a Post -Performed by Haseeb-ur-Rehman Faheem

Description	Successful/Failed
Check if the test code is able to like the given post which was assigned in the code	Successful

TC-05: Comment on a Post -Performed by Aswad Tariq

Description	Successful/Failed
Check if the test code is able to comment on the given post which was assigned in the code, and if that comment is visible on the screen	Successful

TC-06: Add a Post -Performed by Ibrahim Sanaullah

Description	Successful/Failed
Check if the test code is able to add a new post. Using the content provided in the code	Successful

TC-07: Add Find Work-Performed by Ibrahim Sanaullah

Description	Successful/Failed
Check if the test code is able to add a new post in the Find Work section.. Using the content provided in the code	Successful

TC-08: Search Instructor- Performed by Ibrahim Sanaullah

Description	Successful/Failed
Check if the test code is able to search for a particular instructor in the search bar of the Instructors section.	Successful

TC-09: Add instructor Review -Performed by Ibrahim Sanaullah

Description	Successful/Failed
Check if the test code is able to visit the instructor review section, open the profile of the assigned instructor and leave a review provided in the code	Successful

TC-10: Logout -Performed by Ibrahim Sanaullah

Description	Successful/Failed
Check if the test code is able to logout from the current profile and return to the login section.	Successful

TC-11: Search User -Performed by Zeerak Babar

Description	Successful/Failed
Check if the test code is able to search for a given user profile and the profile is visible on the screen	Successful

TC-12: Send Message -Performed by Zeerak Babar

Description	Successful/Failed
Check if the test code is able to send a message to an assigned user.	Successful

TC-13: Update Username -Performed by Zeerak Babar

Description	Successful/Failed
Check if the test code is able to update the username of the assigned profile.	Successful

TC-14: Update About -Performed by Zeerak Babar

Description	Successful/Failed
Check if the test code is able to update the about section of the assigned profile.	Successful

TC-15: Approve Post -Performed by Nashrah Shaukat

Description	Successful/Failed
Check if the test code is able to approve an assigned post.	Successful

TC-16: Deny Post -Performed by Nashrah Shaukat

Description	Successful/Failed
Check if the test code is able to deny an assigned post.	Successful

TC-17: Delete Post -Performed by Nashrah Shaukat

Description	Successful/Failed
Check if the test code is able to delete an assigned post	Successful

TC-18: Create Subspace - Aswad Tariq

Description	Successful/Failed
Check if the test code is able to create a subspace using the subspace name and description	Successful

provided in the code	
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TC-19: Add Event - Aswad Tariq

Description	Successful/Failed
Check if the test case is able to make a new event and add it.	Successful

TC-20: Block User - Aswad Tariq

Description	Successful/Failed
Check if the test case is able to block an assigned user.	Successful

TC-21: Block User - Aswad Tariq

Description	Successful/Failed
Check if the test case is able to unblock an assigned user.	Successful

Results:

The automated testing was thorough and covered the main functionality of the application. The results from the automated testing were positive since all of the tests gave the desired results and none of them failed. Since only 20 tests were performed it is still possible that some errors might have been missed. It is important to do a more thorough automated testing of the application to ensure the application is functioning correctly and meets the requirements

Test Cases Performed	Successful	Failed
20	20	0

April 29, 2022