

TEST DOCUMENTATION

1. Testing Objective

The objective of this document is to document the steps taken to test our system. The test cases listed will be used to verify if our system works properly.

2. Testing Scope

We will be doing both frontend testing and backend testing.

Backend Testing

To test the backend server , we will be using postman to test that the API endpoints are functioning as intended through Black Box Testing. This is to ensure that the integration with the frontend will be smooth.

Frontend Testing

We will conduct subsystem testing for frontend. This will be the last stage of testing when all integrations between components have been shown to work and the system is functional. We will be using white box testing such as control flow testing to determine the execution order of statements or instructions of the programme through a control structure.

3. Backend Test Cases

3.1 Black Box Testing

3.1.1 Integration Testing

Test Case	API / Test Input	Expected Result	Test Result	Pass / Fail
Create user account	POST: http://localhost:3000/api/users/register { "email": "test@gmail.com", "name": "test",	HTTP_201_CREATED	HTTP_201_CREATED	Pass

	<pre>"password": "test", "phone": "12345678" }</pre>			
Create user with duplicate email	POST: http://localhost:3000/api/users/register <pre>{ "email": "test@gmail.com", "username": "test2", "password": "yooo", "phone": "12312414" }</pre>	HTTP_400_BAD_REQUEST	HTTP_400_BAD_REQUEST	Pass
Login with valid credentials	POST: http://localhost:3000/api/users/login <pre>{ "username": "test", "password": "test" }</pre>	HTTP_200_OK	HTTP_200_OK	Pass
Login with invalid username	POST: http://localhost:3000/api/users/login <pre>{ "username": "supp", "password": "test" }</pre>	HTTP_404_NOT_FOUND	HTTP_404_NOT_FOUND	Pass
Login with wrong password	POST: http://localhost:3000/api/users/login <pre>{ "username": "test", "password": "testtt" }</pre>	HTTP_401_UNAUTHORIZED	HTTP_401_UNAUTHORIZED	Pass

Upload a Post with correct fields filled	POST: http://localhost:3000/api/posts/ <pre>{ "itemName": "Lost phone" "isLost": "true" "images": "location": "NTU" "ListedBy": "test" "date": "2023-04-04" "time": "17:00:00" "itemDescription": "black ,last seen near subway" "category": "Electronics ID" "isResolved": "false" }</pre>	HTTP_200_OK	HTTP_200_OK	Pass
Upload a post without location	POST: http://localhost:3000/api/posts/ <pre>{ "itemName": "Lost phone" "isLost": "true" "images": "location": "ListedBy": "test" "date": "2023-04-04" "time": "17:00:00" "itemDescription": "black ,last seen near subway" "category": "Electronics ID" "isResolved": "false" }</pre>	HTTP_400_BAD_REQUEST	HTTP_404_BAD_REQUEST	Pass
Upload a post without itemName	POST: http://localhost:3000/api/posts/ <pre>{ "itemName": "isLost": "true" "images": "location": "NTU" "ListedBy": "test" "date": "2023-04-04" "time": "17:00:00" "itemDescription": "black ,last seen near subway" "category": "Electronics ID" "isResolved": "false" }</pre>	HTTP_400_BAD_REQUEST	HTTP_404_BAD_REQUEST	Pass

	}			
Delete User with correct ID	DELETE: http://localhost:3000/api/users/<ID OF USER>	HTTP_200_OK	HTTP_200_OK	Pass
Delete User with not existing ID	DELETE: http://localhost:3000/api/users/<ID OF USER>	HTTP_404_NOT_FOUND	HTTP_404_NOT_FOUND	Pass
Edit User with correct ID	PUT: http://localhost:3000/api/users/<ID OF USER> { "email": "test@gmail.com", "username": "test5", "password": "yoohoo", "phone": "12312414" }	HTTP_200_OK	HTTP_200_OK	Pass
Edit User with not existing ID	PUT: http://localhost:3000/api/users/<ID OF USER> { "email": "test@gmail.com", "username": "test5", "password": "yoohoo", "phone": "12312414" }	HTTP_404_NOT_FOUND	HTTP_404_NOT_FOUND	Pass
Get posts with	GET: http://localhost:3000/api/posts/	HTTP_200_OK	HTTP_200_OK	Pass

authenticated token				
Get posts without authenticated token	GET: : http://localhost:3000/api/posts/	HTTP_401_UNAUTHORIZED	HTTP_401_UNAUTHORIZED	Pass
Get Users with authenticated token	GET: : http://localhost:3000/api/users/	HTTP_200_OK	HTTP_200_OK	Pass
Get Users without authenticated token	GET: : http://localhost:3000/api/users/	HTTP_401_UNAUTHORIZED	HTTP_401_UNAUTHORIZED	Pass
Get posts of a user with existing ID	GET: <a href="http://localhost:3000/api/users/userposts/<ID OF USER>">http://localhost:3000/api/users/userposts/<ID OF USER>	HTTP_200_OK	HTTP_200_OK	Pass
Get posts of a user with existing ID	GET: <a href="http://localhost:3000/api/users/userposts/<ID OF USER>">http://localhost:3000/api/users/userposts/<ID OF USER>	HTTP_404_NOT_FOUND	HTTP_404_NOT_FOUND	Pass
Get list of Categories	GET: http://localhost:3000/api/categories	HTTP_200_OK	HTTP_200_OK	Pass
Delete post with correct ID	DELETE: <a href="http://localhost:3000/api/posts/<POST ID>">http://localhost:3000/api/posts/<POST ID>	HTTP_200_OK	HTTP_200_OK	Pass
Delete post with not existing ID	DELETE: <a href="http://localhost:3000/api/posts/<POST ID>">http://localhost:3000/api/posts/<POST ID>	HTTP_404_NOT_FOUND	HTTP_404_NOT_FOUND	Pass

4.Frontend Test Cases

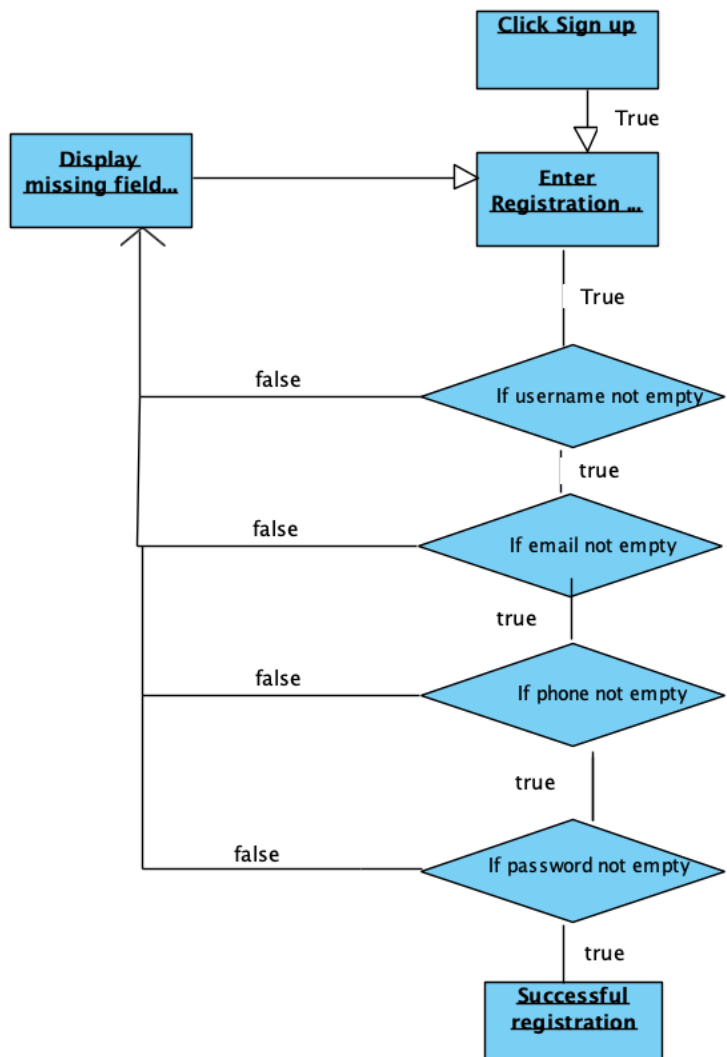
4.1 White Box Testing

Sign up/Create new user

Test Scenario ID		Register-1			Test Case ID		Register-1A	
Test Case Description		Registration – Positive Test Case			Test Priority		High	
Pre-Requisite		Stable Internet Connection			Post-Requisite		NA	
Test Execution Steps:								
S. No	Action	Inputs	Expected Output	Actual Output	Test Device	Test Result	Test Comments	
1	Launch application	-	Login Page	Login Page	IOS Emulator	Pass	Launch successful	
2	Click signup	-	Register page	Register Page	IOS Emulator	Pass	Register	
3	Sign up with valid credentials	"email":"test@gmail.com", "username":"test", "password":"yoohoo", "phone":"12312414"	Login page	Login Page	IOS Emulator	Pass	Password will be stored in a password hash to maintain security	
Test Scenario ID		Register-2			Test Case ID		Register-2A	

Test Case Description		Registration – Negative Test Case			Test Priority		High	
Pre-Requisite		Stable Internet Connection			Post-Requisite		NA	
Test Execution Steps:								
S.No	Action	Inputs		Expected	Actual	Test	Test	Test

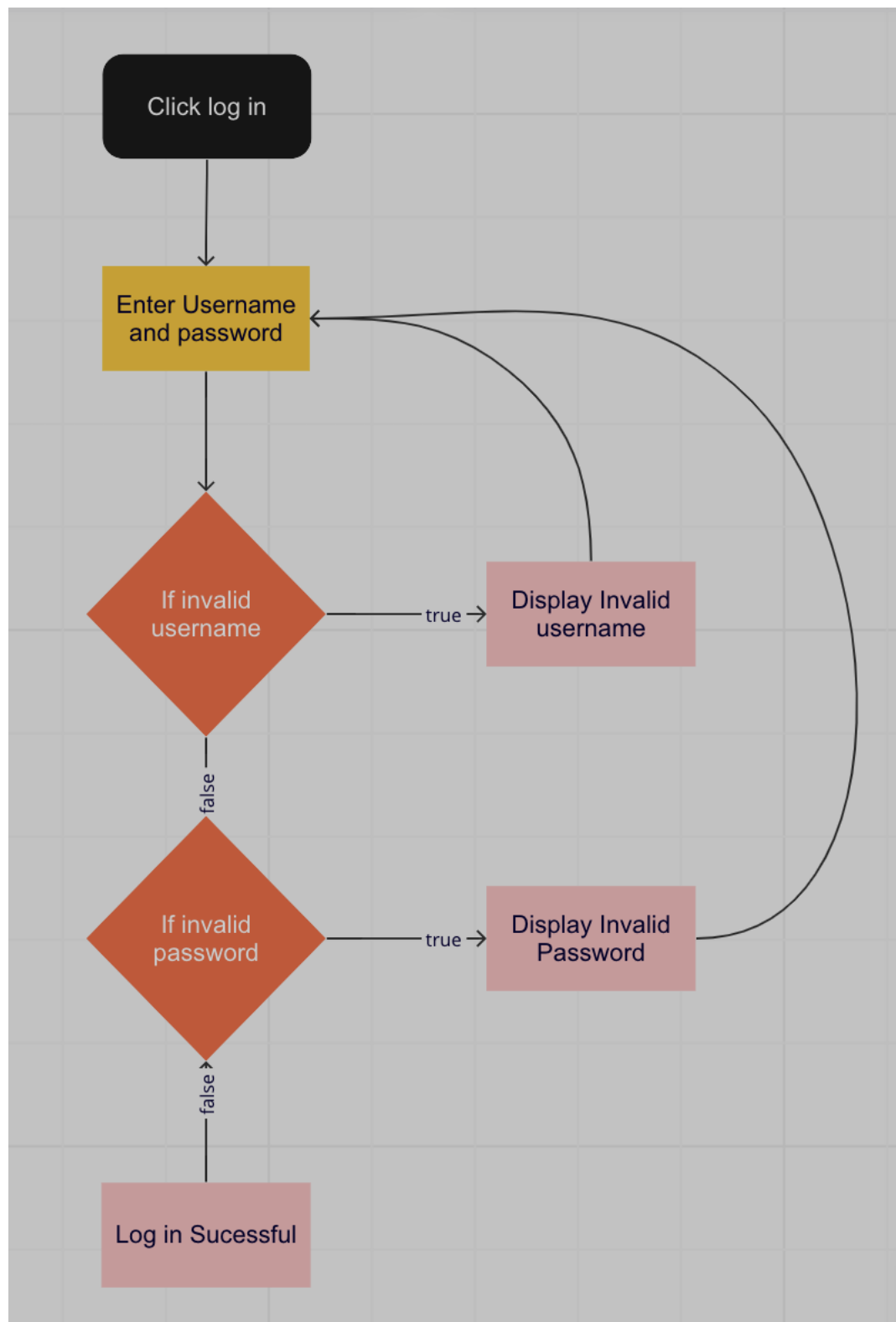
			Output	Output	Browser	Result	Comments
1	Launch application	-	Login Page	Login Page	IOS Emulator	Pass	
2	Click signup	-	Register page	Register Page	IOS Emulator	Pass	
3	Enter used email, everything else valid	"email": "test@gmail.com", "username": "test123", "password": "yoohoo", "phone": "12312414"	Email Invalid	Email Invalid	IOS Emulator	Pass	
4	Enter everything except username	"email": "test123@gmail.com", "username": , "password": "yoohoo", "phone": "12312414"	Username not entered	Username not entered	IOS Emulator	Pass	
5	Enter everything except password	"email": "test123@gmail.com", "username": "test123", "password": , "phone": "12312414"	Password not entered	Password not entered	IOS Emulator	Pass	
6	Enter everything except phone	"email": "test123@gmail.com", "username": "test123", "password": "yoohoo", "phone":	Phone not entered	Phone not entered	IOS Emulator	Pass	



Login

Test Scenario ID		Login-1		Test Case ID		Login-1A	
Test Case Description		Login – Positive Test Case		Test Priority		High	
Pre-Requisite		Stable Internet Connection and Already Registered		Post-Requisite		NA	
Test Execution Steps:							
S. No	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1	Launch application	-	Login Page	Login Page	IOS Emulator	Pass	
2	Enter Valid Username and Password	"username":"test", "password":"yoohoo" "	Home page	Home page	IOS Emulator	Pass	Token is generated and stored in this login instance

Test Scenario ID		Login-2			Test Case ID		Login-2A	
Test Case Description		Login – Negative Test Case			Test Priority		High	
Pre-Requisite		Stable Internet Connection			Post-Requisite		NA	
Test Execution Steps:								
S. No	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments	
1	Launch application	-	Login Page	Login Page	IOS Emulator	Pass		
2	Enter invalid username and a password	"username":"test342948", "password":"yoohoo"oo"	Login failed	Login failed	IOS Emulator	Pass	Display invalid username pop up	
3	Enter valid username and invalid password	"username":"test", "password":"yo"	Login failed	Login failed	IOS Emulator	Pass	Display wrong password pop up	



View Post

Test Scenario ID	View Post		Test Case ID	ViewPost			
Test Case Description	View Post – Positive Test Case		Test Priority	High			
Pre-Requisite	Stable Internet Connection and logged in		Post-Requisite	NA			
Test Execution Steps:							
S. No	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1	Login	Successful log in	Home page	Home page	IOS Emulator	Pass	
2	Scroll	-	Posts will be shown based on recency	Posts shown based on recency	IOS Emulator	Pass	

View Map

Test Scenario ID		View Map		Test Case ID		ViewMap	
Test Case Description		View Map – Positive Test Case		Test Priority		High	
Pre-Requisite		Stable Internet Connection and location services enabled		Post-Requisite		NA	
Test Execution Steps:							
S. No	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments

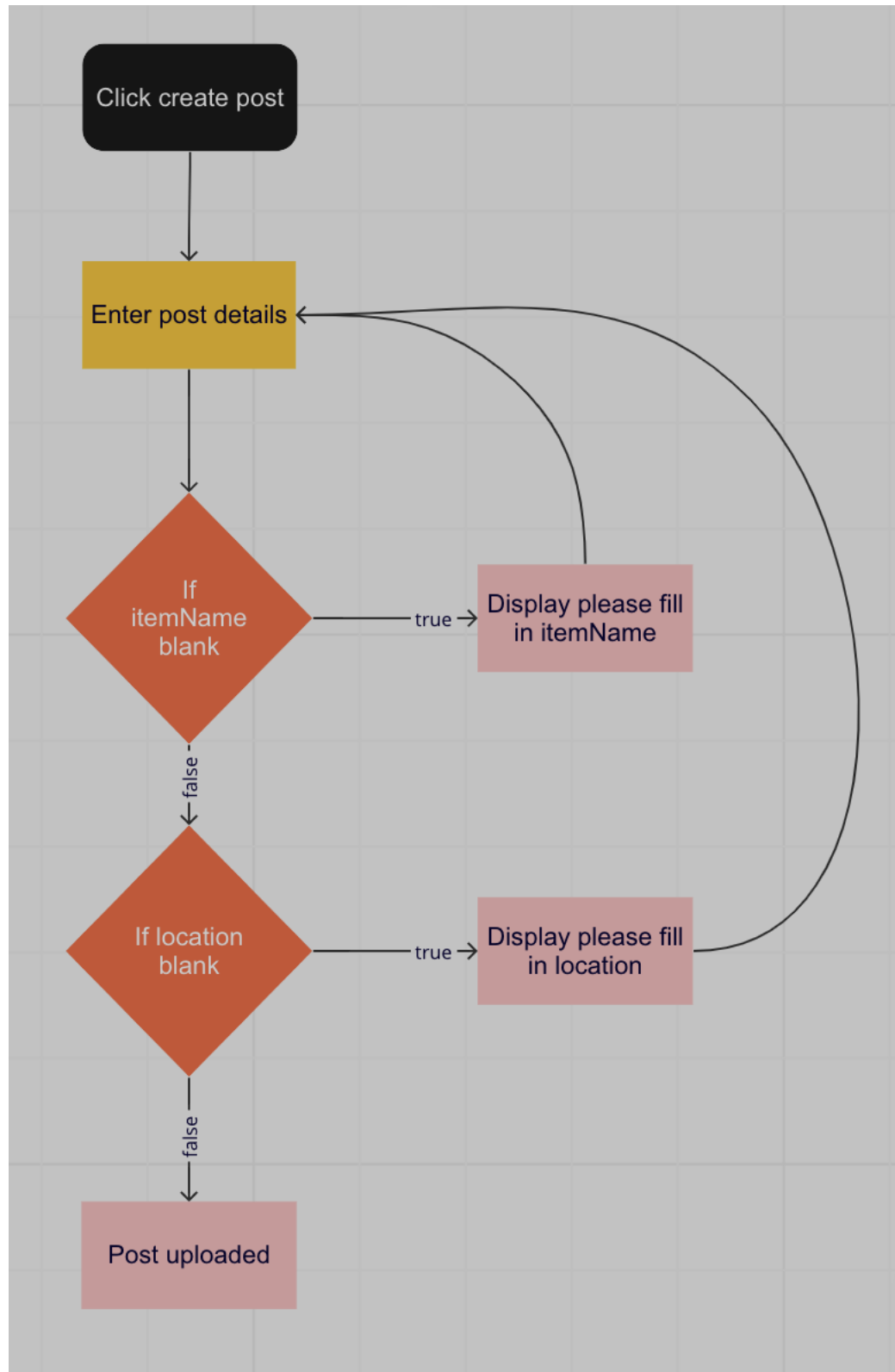
1	Click on the view Map icon	-	Home page	Home page	IOS Emulator	Pass	
2	Scroll the map	-	Current location shown in blue and post location shown in red for lost and green for found	Current location shown in blue and post location shown in red for lost and green for found	IOS Emulator	Pass	Post show up as clickable pins
2	Click on the post pins	-	Pins will show the title and description of the post	Pins will show the title and description of the post	IOS Emulator	Pass	

Create Post

Test Scenario ID		Create Post		Test Case ID		CreatePost-1A	
Test Case Description		Create Post – Positive Test Case		Test Priority		High	
Pre-Requisite		Stable Internet Connection and logged in		Post-Requisite		NA	
Test Execution Steps:							
S. No	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1	Click the Plus icon to create post	-	Create post page	Create post page	IOS Emulator	pass	
2	Enter valid Post details	{ itemName: Lost phone isLost: true images: ~ location: NTU date: 2023-04-04 time: 17:00:00 itemDescription: black ,last seen near subway category: Electronics }	Post created successfully	Post created Successfully	IOS Emulator	pass	Fields are shown in json format but entered using the phone app which consist of textbox, drop down boxes and checkboxes . Post shows up on the view post page and on the user’s profile page

Test Scenario ID		Create Post			Test Case ID	CreatePost-2A	
Test Case Description		Create Post – Negative Test Case			Test Priority	High	
Pre-Requisite		Stable Internet Connection and logged in			Post-Requisite	NA	
Test Execution Steps:							
S. No	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1	Click the Plus icon to create post	-	Create post page	Create post page	IOS Emulator	pass	
2	Enter all details except location	{ itemName: Lost phone isLost: true images: location: date: 2023-04-04 time: 17:00:00 itemDescription: black ,last seen near subway category: Electronics }	Location not filled, post not uploaded	Location not filled, post not uploaded	IOS Emulator	pass	Image and item description are optional fields. Category, date and time are have a fixed format and options with a default option. These fields will not be tested
3	Enter all details except itemName	{ itemName: isLost: true images: location: NTU listedBy: test date: 2023-04-04 time: 17:00:00	Item Name not filled, post not uploaded	Item Name not filled, post not uploaded	IOS Emulator	pass	

		<div>itemDescription: black ,last seen near subway category: Electronics }</div>					
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View User Post

Test Scenario ID	ViewUserPost			Test Case ID	View User Post		
Test Case Description	View User Post			Test Priority	Medium		
Pre-Requisite	Stable Internet Connection and Successful log in			Post-Requisite	NA		
Test Execution Steps:							
S. No	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1	Click on User profile	-	User is shown with all past posts	User is shown with all past posts	IOS Emulator	Pass	Tested with both resolved and unresolved post
2	Click on unresolved in the drop down menu	-	User is shown with only unresolved posts	User is shown with only unresolved posts	IOS Emulator	Pass	
3	Click on resolved in the drop down menu	-	User is shown with only resolved posts	User is shown with only resolved posts	IOS Emulator	Pass	

View User Post Details

Test Scenario ID		ViewUserPostDetails		Test Case ID		ViewUserPostDetails	
Test Case Description		View User Post details		Test Priority		High	
Pre-Requisite		Stable Internet Connection and Successful log in		Post-Requisite		NA	
Test Execution Steps:							
S. No	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1	Click on a user post in list view	-	User is shown post details with an image carousel	User is shown post details with an image carousel	IOS Emulator	Pass	
2	Click on a user post in map view	-	User is shown post details with an image carousel	User is shown post details with an image carousel	IOS Emulator	Pass	

Search Post

Test Scenario ID		SearchUser		Test Case ID		SearchUser	
Test Case Description		Search user by name or category		Test Priority		Medium	
Pre-Requisite		Stable Internet Connection and Successful log in		Post-Requisite		NA	
Test Execution Steps:							
S. No	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments

1	Click on the search bar	-	User shown a box to type the search details in, as well as a categories option to search by category	User shown a box to type the search details in, as well as a categories option to search by category	IOS Emulator	Pass	
2	Search by item	phone	All items with phone in their name are displayed	All items with phone in their name are displayed	IOS Emulator	Pass	
2	Search by category	Electronics	All items in the electronics category displayed	All items in the electronics category displayed	IOS Emulator	Pass	Category shown as a dropdown

Request Resolved

Test Scenario ID		RequestResolved			Test Case ID	RequestResolved	
Test Case Description		Request Resolved – Positive Test Case			Test Priority	High	
Pre-Requisite		Stable Internet Connection and logged in			Post-Requisite	NA	
Test Execution Steps:							
S. No	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1	Click on a post	-	Shows option to report or to request resolved	Shows option to report or to request resolved	IOS Emulator	Pass	This will be done on resolver user account
2	Click on resolve	-	Post will be shown with a marker resolve sent	Post will be shown with a marker resolve sent	IOS Emulator	Pass	The post has to be made by someone else
3	Click on request	-	Resolve request for <item> displayed in request screen	Resolve request for <item> displayed in request screen	IOS Emulator	Pass	Done on the poster user account
4	Click on accept resolve request	-	Item post changed to resolved, resolver user account gains 1 reputation. Delete request from	Item post changed to resolved, resolver user account gains 1 reputation. Delete request from	IOS Emulator	Pass	

			request page	request page			
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Test Scenario ID		RequestResolved			Test Case ID	RequestResolved	
Test Case Description		Request Resolved – Negative Test Case			Test Priority	High	
Pre-Requisite		Stable Internet Connection and logged in			Post-Requisite	NA	
Test Execution Steps:							
S. No	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1	Click on a post	-	Shows option to report or to request resolved	Shows option to report or to request resolved	IOS Emulator	Pass	This will be done on resolver user account
2	Click on resolve	I found it	Post will be shown with a marker resolve sent	Post will be shown with a marker resolve sent	IOS Emulator	Pass	The post has to be made by someone else. “I found it” option will be shown on lost items, and “I lost it” will be shown for found items
3	Click on request	-	Resolve request for <item> displayed in request screen	Resolve request for <item> displayed in request screen	IOS Emulator	Pass	Done on the poster user account

4	Click on reject resolve request	-	Item remains unresolved, resolve request deleted. Marker of resolve sent from resolver will be removed	Item remains unresolved, resolve request deleted. Marker of resolve sent from resolver will be removed	IOS Emulator	Pass	
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