

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

We will be doing integration testing, we will be testing on the API endpoints, which the backend system exposes, are functioning correctly. This is to ensure a smooth and correct integration with the frontend system.

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 JustJio Server API

3.1.1 Integration Testing

Test Case	Test Input	Expected Result	Test Result	Pass / Fail
Create user account	{ "email": "ww@gmail.com" , "username": "ww123", }	HTTP_201_CREATED	HTTP_201_CREATED	Pass

	<pre> "password": "Ww12345678!", "phoneNum": "99947033" } </pre>			
Create user with duplicate username	<pre> { "email": "ww@gmail.com" , "username": "ks123", "password": "Ww12345678!", "phoneNum": "99947033" } </pre>	HTTP_400_BAD_REQUEST	HTTP_400_BAD_REQUEST	Pass
Create user with duplicate email	<pre> { "email": "ww@gmail.com" , "username": "ww123", "password": "Ww12345678!", "phoneNum": "99947033" } </pre>	HTTP_400_BAD_REQUEST	HTTP_400_BAD_REQUEST	Pass
Login with valid credentials	<pre> { "username": "ks123", "password": "Ks12345678!" } </pre>	HTTP_200_OK	HTTP_200_OK	Pass
Login with invalid username	<pre> { "username": "brad", "password": "Ks12345678!" } </pre>	HTTP_404_NOT_FOUND	HTTP_404_NOT_FOUND	Pass
Login with wrong password	<pre> { "username": "ks123", "password": "ks123" } </pre>	HTTP_401_UNAUTHORIZED	HTTP_401_UNAUTHORIZED	Pass

Create a room with inviting valid users	{ "room": { "name": "test for yes error 21", "time": "3:00pm", "venue": "ntu tama", "date": "29/12/2022" }, "invitees": ["ks123", "zh123"] }	HTTP_200_OK	HTTP_200_OK	Pass
Create a room with inviting invalid users	{ "room": { "name": "test for yes error 21", "time": "3:00pm", "venue": "ntu tama", "date": "29/12/2022" }, "invitees": ["brad", "zh123"] }	HTTP_404_NOT_FOUND	HTTP_404_NOT_FOUND	Pass
Fetch rooms with authenticated token	Nil	HTTP_200_OK	HTTP_200_OK	Pass
Fetch rooms without authenticated token	Nil	HTTP_401_UNAUTHORIZED	HTTP_401_UNAUTHORIZED	Pass
Fetch room invitations with authenticated token	Nil	HTTP_200_OK	HTTP_200_OK	Pass
Fetch room	Nil	HTTP_401_UNAUTHORIZED	HTTP_401_UNAUTHORIZED	Pass

invitations without authenticated token		UTHORIZED	UTHORIZED	
Invite valid user to room	{ "Invitees": ["kaiseong"] }	HTTP_200_OK	HTTP_200_OK	Pass
Invite invalid user to room	{ "Invitees": ["tom"] }	HTTP_404_NOT_FOUND	HTTP_404_NOT_FOUND	Pass
Fetch transactions with authenticated token	Nil	HTTP_200_OK	HTTP_200_OK	Pass
Fetch transactions without authenticated token	Nil	HTTP_401_UNAUTHORIZED	HTTP_401_UNAUTHORIZED	Pass
Generate transactions for a room	{ "name": "drinks", "shouldPay": "ks123", "date": "20/10/2022", "amountToPay": 5, "payers": ["amabel123", "zh123", "eldrick123", "harish123"] }	HTTP_200_OK	HTTP_200_OK	Pass
Update transaction to paid	Nil	HTTP_200_OK	HTTP_200_OK	Pass

4. Frontend Test Cases

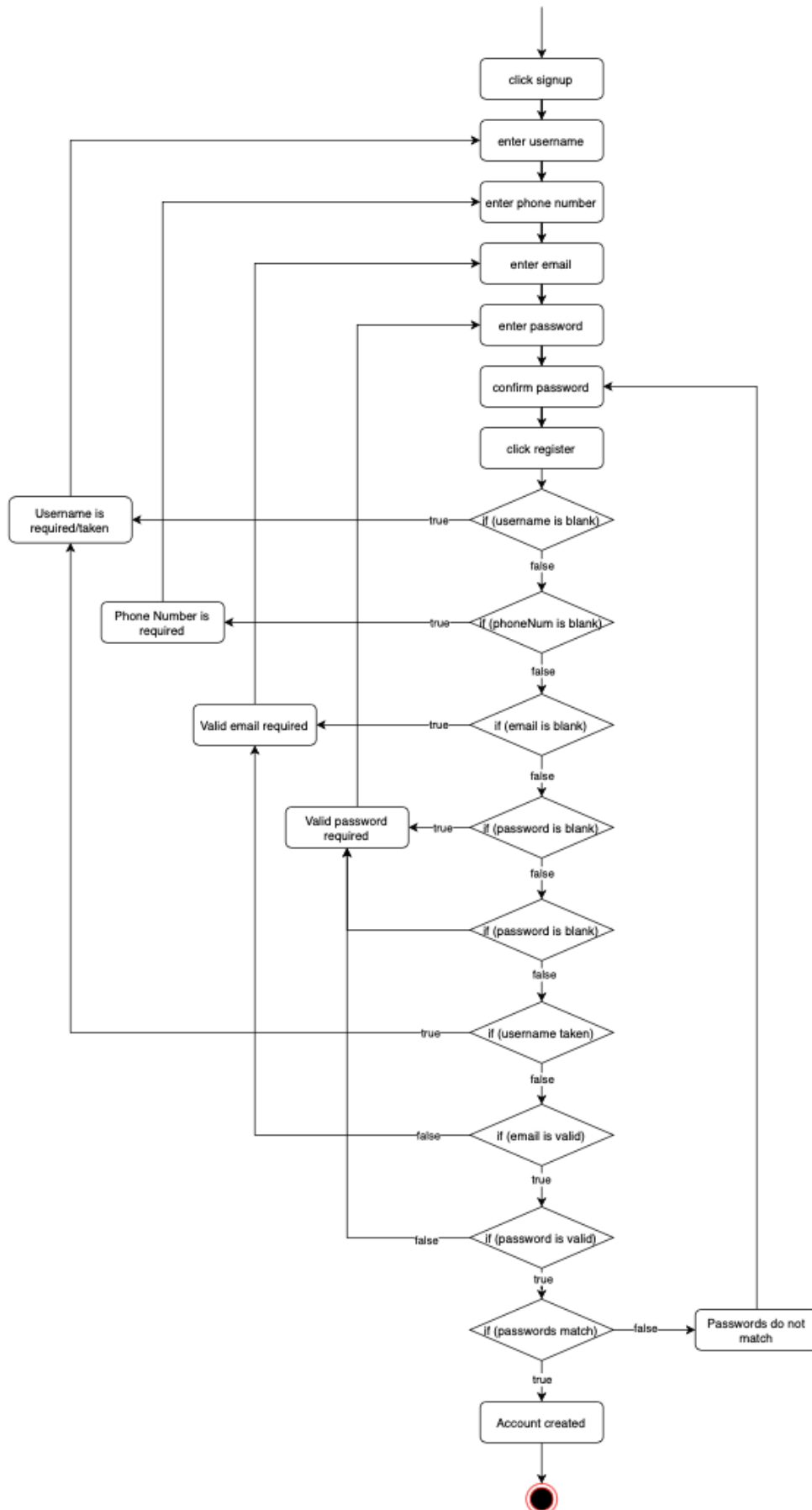
4.1 White Box Testing

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	Android Emulator	Pass	[Aloysius 5/11/2022 4:14 PM]: Launch successful
2	Click signup	-	Register page	Register Page	Android Emulator	Pass	[Aloysius 5/11/2022 4:14 PM]: Load successful
3	Sign up with valid credentials	Username not taken Valid Email address Password meets requirements	Login page	Login Page	Android Emulator	Pass	[Aloysius 5/11/2022 4:14 PM]: Load successful

Test Scenario ID	Register-2	Test Case ID	Register-2A
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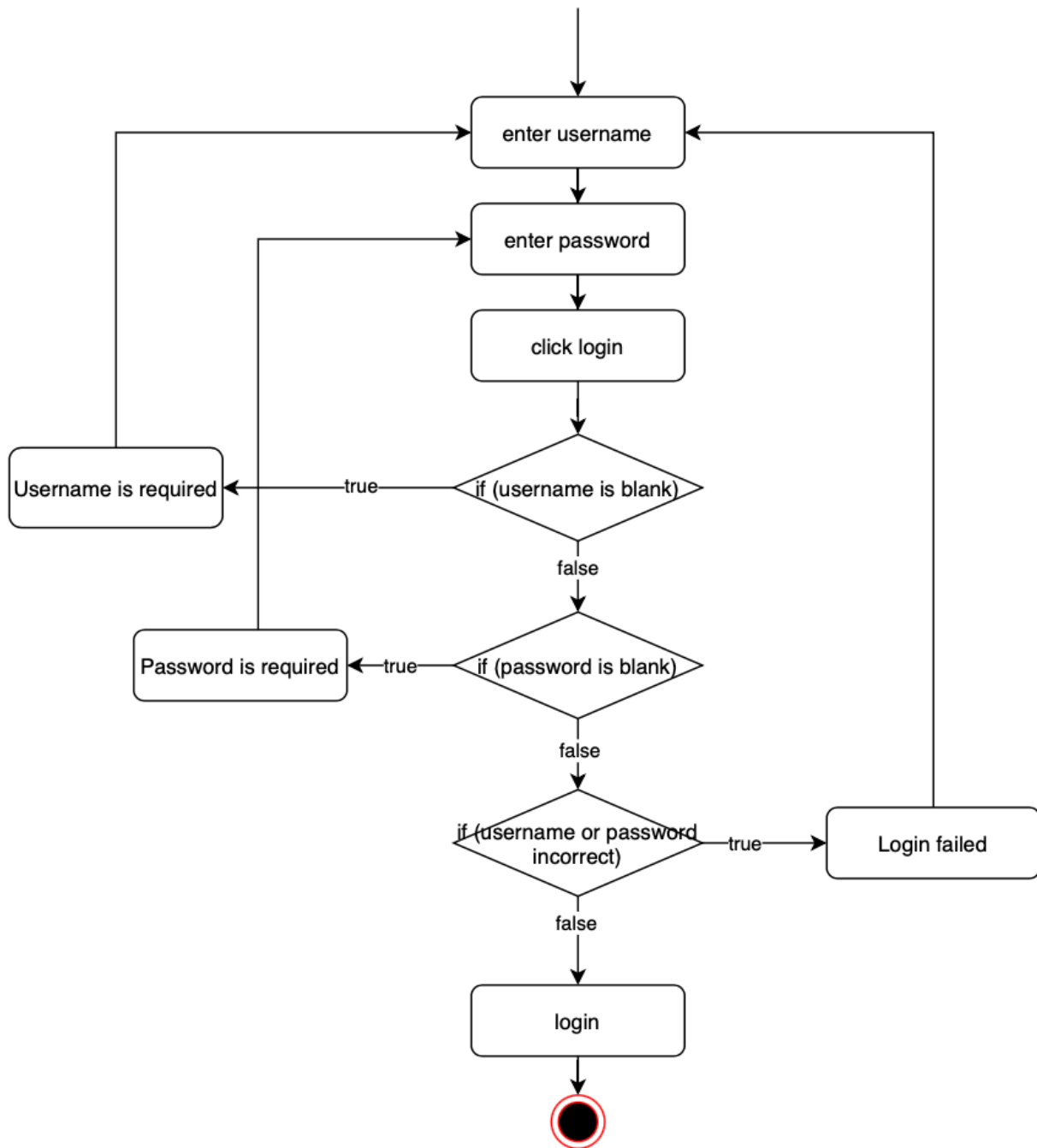
Test Case Description		Registration – Negative Test Case		Test Priority		High	
Pre-Requisite		Stable Internet Connection		Post-Requisite		NA	
Test Execution Steps:							
S.No	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1	Launch application	-	Login Page	Login Page	Android Emulator	Pass	[Aloysius 5/11/2022 4:20 PM]: Launch successful
2	Click signup	-	Register page	Register Page	Android Emulator	Pass	[Aloysius 5/11/2022 4:21PM]: Load successful
3	Enter invalid username, everything else valid	Username that has been taken	Username taken	Username taken	Android Emulator	Pass	[Aloysius 5/11/2022 4:21PM]: Invalid Username blocked
4	Enter invalid email address, everything else valid	Email that is not of the format “x@x.x”	Invalid email	Invalid email	Android Emulator	Pass	[Aloysius 5/11/2022 4:24PM]: Invalid email blocked
5	Enter invalid password, everything else valid	Password that does not have either: 1. 8 chars 2. Mixed case 3. Alphanumeric 4. Symbol	Invalid password	Invalid password	Android Emulator	Pass	[Aloysius 5/11/2022 4:26PM]: Invalid password blocked
6	Enter 2 different passwords, everything else valid	Enter a password that does not match in “Confirm Password”	Passwords do not match	Passwords do not match	Android Emulator	Pass	[Aloysius 5/11/2022 4:27PM]: Password mismatch blocked



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	Android Emulator	Pass	[Aloysius 5/11/2022 4:33 PM]: Launch successful
2	Enter Valid Username and Password	Valid Username and Password	Home page	Home page	Android Emulator	Pass	[Aloysius 5/11/2022 4:34 PM]: Load successful

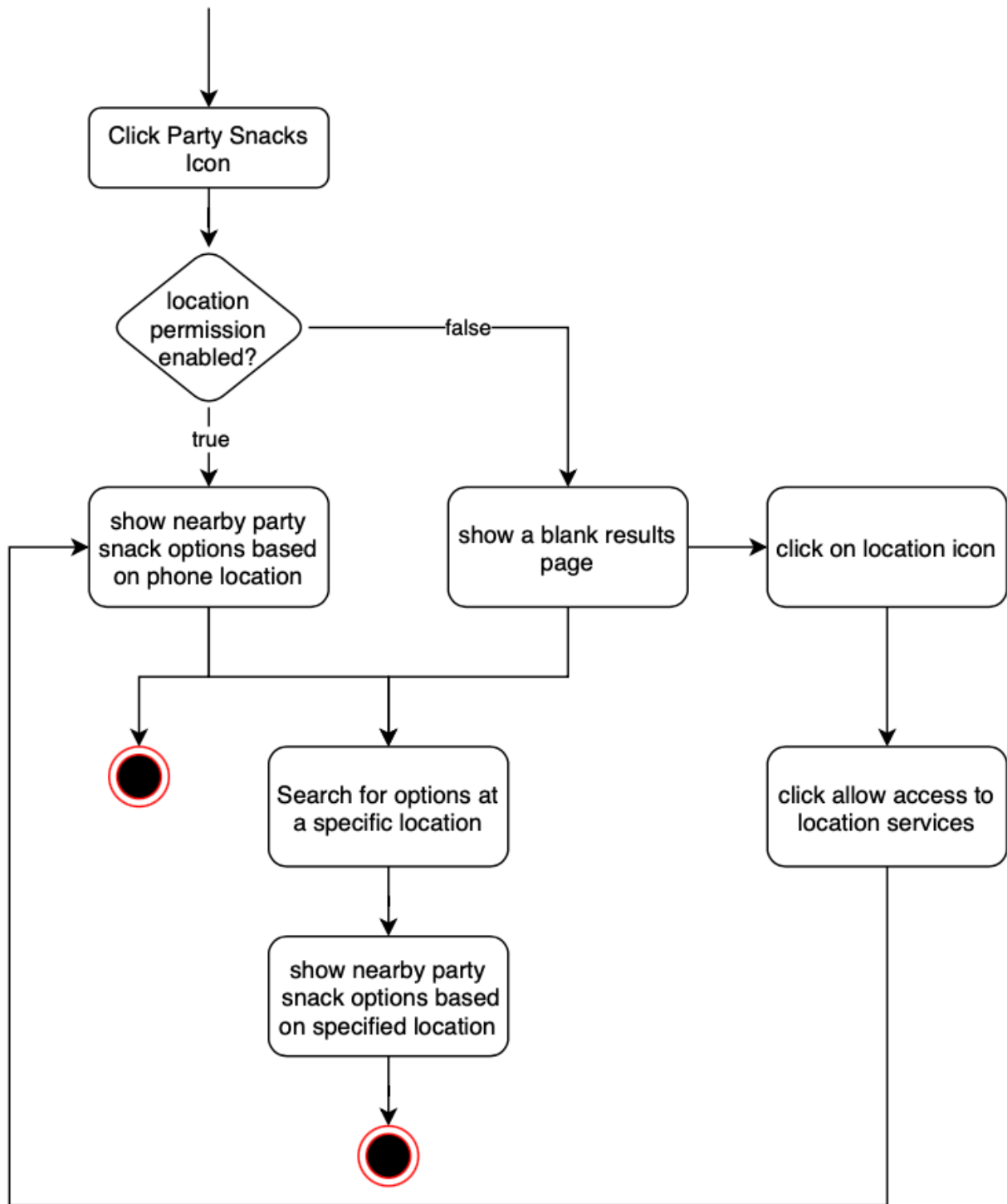
Test Scenario ID		Login-2		Test Case ID		Login-2A	
Test Case Description		Login – Negative Test Case		Test Priority		High	
Pre-Requisite		Stable Internet Connection		Post-Requisite		NA	
Test Execution Steps:							
S. No	Action	Inputs	Expected Output	Actual Output	Test Browser	Test Result	Test Comments
1	Launch application	-	Login Page	Login Page	Android Emulator	Pass	[Aloysius 5/11/2022 4:35 PM]: Launch successful
2	Enter invalid username and a password	Username: hello Password: hello	Login failed	Login failed	Android Emulator	Pass	[Aloysius 5/11/2022 4:36 PM]: Invalid login attempt stopped
3	Enter valid username and invalid password	Username: aloysius123 Password: hi	Login failed	Login failed	Android Emulator	Pass	[Aloysius 5/11/2022 4:37 PM]: Invalid login attempt stopped



View Party Snacks

Test Scenario ID		ViewPartySnacks-1		Test Case ID		ViewPartySnacks-1A	
Test Case Description		ViewPartySnacks – 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 Party Snacks icon	Grant location service permission when prompted	Party Snacks page with options based on current location	Party Snacks page with options based on current location	Android Emulator	Pass	[Aloysius 8/11/2022 6:30 PM]: Load successful
2	Search another address	Any address	Party Snacks page with options based searched location	Party Snacks page with options based searched location	Android Emulator	Pass	[Aloysius 8/11/2022 6:31 PM]: Load successful

Test Scenario ID	ViewPartySnacks-2			Test Case ID	ViewPartySnacks-2A		
Test Case Description	ViewPartySnacks – 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 Party Snacks icon	Deny location service permission when prompted	Party Snacks page with no results	Party Snacks page with no results	Android Emulator	Pass	[Aloysius 8/11/2022 6:32 PM]: Load successful
2	Search for an address	Any address	Party Snacks page with options based searched location	Party Snacks page with options based searched location	Android Emulator	Pass	[Aloysius 8/11/2022 6:32 PM]: Load successful



Room Invitation

Test Scenario ID		RoomInvitation-1		Test Case ID		RoomInvitation-1A	
Test Case Description		Room Invitation – 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 create room	-	Create room page	Create room page	Android Emulator	pass	[Aloysius 8/11/2022 7:01 PM]: Load successful
2	Enter valid room details	- All details filled - Date in future - Time hh:mmxm - Invitee accounts exist	Room created successfull y	Room created successful ly	Android Emulator	pass	[Aloysius 8/11/2022 7:01 PM]: Room creation successful

Test Scenario ID		RoomInvitation-2		Test Case ID		RoomInvitation-2A	
Test Case Description		Room Invitation – 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 create room	-	Create room page	Create room page	Android Emulator	pass	[Aloysius 8/11/2022 7:02 PM]: Load successful
2	Enter invalid date, everything else valid	Enter a date that has passed	Date entered has passed	Date entered has passed	Android Emulator	pass	[Aloysius 8/11/2022 7:02 PM]: Invalid date blocked
3	Enter invalid time, everything else valid	Enter a date that is not of the format hh:mmxm	Invalid time	Invalid time	Android Emulator	pass	[Aloysius 8/11/2022 7:03 PM]: Invalid time blocked
4	Invite a user that does not exist, everything else valid	Enter a username that has not been registered: “jon”	User jon doesn’t exist	User jon doesn’t exist	Android Emulator	pass	[Aloysius 8/11/2022 7:04 PM]: Invalid invitee blocked

