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# Use Cases

for

# JustJio

**Version 1.0 approved**

Prepared by

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## Revision History

Name	Date	Reason For Changes	Version
Cheung Zhi Heng	28/8/2022	First Draft	1.0
Loh Sijing Aloysius	21/10/2022	Updates to First Draft	1.1
Goh Kuan Wei, Eldrick	21/10/2022	Updates to First Draft	1.2

## Use Cases

Use Case ID:	REG1		
Use Case Name:	Register		
Created By:	Cheung Zhi Heng	Last Updated By:	Loh Sijing Aloysius
Date Created:	28/08/2022	Date Last Updated:	21/10/2022

Actor:	User
Description:	First time users can register for an account by clicking on the button 'Register'. Being a registered user, they will be able to manage rooms and monitor their transaction history.
Preconditions:	The user should not have registered an account previously.
Postconditions:	The user has successfully created the account and logged in.
Priority:	High
Frequency of Use:	Low
Flow of Events:	<ol style="list-style-type: none"> <li>1. User clicks on the 'Sign Up' button.</li> <li>2. RegistrationUI displays registration form to User.</li> <li>3. User inputs username, password, phone number and email address.</li> <li>4. RegistrationUI sends account details to the System.</li> <li>5. System checks whether information submitted is sufficient and valid.</li> <li>6. System stores User's details in UsersList database.</li> <li>7. User is logged in and goes to JustJioMainUI page.</li> </ol>
Alternative Flows:	<p>REG1-AF-S3 If username is taken by another user:</p> <ol style="list-style-type: none"> <li>1. System displays "Username already exists. Please use another username."</li> <li>2. System returns to Step 2.</li> </ol> <p>REG1-AF-S3 If password do not meets the requirements:</p> <ol style="list-style-type: none"> <li>1. System displays "Passwords do not match requirements."</li> <li>2. System returns to Step 2.</li> </ol> <p>REG1-AF-S3 If email address is invalid:</p> <ol style="list-style-type: none"> <li>1. System displays "Please enter a valid email address."</li> <li>2. System returns to Step 2.</li> </ol> <p>REG1-AF-S3 If phone number is non-verifiable:</p> <ol style="list-style-type: none"> <li>1. System displays "Please enter a valid phone number."</li> <li>2. System returns to Step 2.</li> </ol>
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	1. User should connect to the Internet when registering.
Notes and Issues:	NIL

Use Case ID:	L1		
Use Case Name:	Login		
Created By:	Loh Sijing Aloysius	Last Updated By:	
Date Created:	28/08/2022	Date Last Updated:	

Actor:	User
Description:	User must log in to access features of the application
Preconditions:	User has registered for an account
Postconditions:	User has logged in
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> <li>1. User clicks on the “Sign In” button.</li> <li>2. LogInUI displays log in form to User.</li> <li>3. User inputs username and password in text inputs and clicks on the “Login” button.</li> <li>4. LogInUI sends account details to the System.</li> <li>5. System verifies the User’s credentials from the UsersList database.</li> <li>6. User is logged in and goes to JustJioMainUI page.</li> </ol>
Alternative Flows:	<p>L1-AF-S1 If username not found:</p> <ol style="list-style-type: none"> <li>1. LogInUI displays “Incorrect username or password”.</li> <li>2. System returns to Step 1.</li> </ol> <p>L1-AF-S1 If incorrect password is entered:</p> <ol style="list-style-type: none"> <li>1. LogInUI displays “Incorrect username or password”.</li> <li>2. System returns to Step 1.</li> </ol>
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	1. User is connected to the Internet
Notes and Issues:	NIL

Use Case ID:	RF1		
Use Case Name:	Room Features		
Created By:	Cheung Zhi Heng	Last Updated By:	Goh Kuan Wei, Eldrick
Date Created:	31/08/2022	Date Last Updated:	21/10/22

Actor:	User
Description:	User will be able to use the various room features.
Preconditions:	User must have logged in to use this feature.
Postconditions:	User will be able to view the different room features.
Priority:	High
Frequency of Use:	Medium
Flow of Events:	1. User logs in 2. User is at the home page. 3. User clicks on one of the existing party rooms.
Alternative Flows:	NIL
Exceptions:	NIL
Includes:	Create Room Join Room
Special Requirements:	NIL
Assumptions:	1. User is connected to the Internet.
Notes and Issues:	NIL

Use Case ID:	CR1		
Use Case Name:	Create Room		
Created By:	Loh Sijing Aloysius	Last Updated By:	Loh Sijing Aloysius
Date Created:	28/08/2022	Date Last Updated:	21/10/2022

Actor:	User
Description:	User creates a room for the event being hosted
Preconditions:	User must have logged in
Postconditions:	System displays the room that the user has created
Priority:	High
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> <li>1. User clicks on the "Create Room" button.</li> <li>2. CreateRoomUI displays a form to User.</li> <li>3. User enters the name, date, time, venue of the event, and list of usernames of the Users to be invited.</li> <li>4. CreateRoomUI sends event details to the System.</li> <li>5. System stores event details in the RoomsList database.</li> <li>6. System sends invitations to users who are invited.</li> </ol>
Alternative Flows:	NIL
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	1. User is connected to the Internet
Notes and Issues:	NIL

Use Case ID:	JR1		
Use Case Name:	Join Room		
Created By:	Loh Sijing Aloysius	Last Updated By:	Loh Sijing Aloysius
Date Created:	28/08/2022	Date Last Updated:	21/10/2022

Actor:	Users
Description:	User join a room which have been created by a host.
Preconditions:	User must have logged in and received an invitation to the room for the event
Postconditions:	User will have access to the room
Priority:	High
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> <li>1. User clicks on the “Room Invitations” button.</li> <li>2. InvitationsUI displays the list of room invitations the User is added to.</li> <li>3. User accepts the invitation sent by the Host.</li> <li>4. System adds User into the room by storing User in the RoomsList database under the specific room.</li> </ol>
Alternative Flows:	JR1-AF-S3 If User declines the invitation to the room: <ol style="list-style-type: none"> <li>1. Invitation is dismissed.</li> <li>2. System notifies Host.</li> </ol>
Exceptions:	Nil
Includes:	Nil
Special Requirements:	Nil
Assumptions:	1. User is connected to the Internet
Notes and Issues:	Nil

Use Case ID:	MB1		
Use Case Name:	Manage Bill		
Created By:	Cheung Zhi Heng	Last Updated By:	
Date Created:	31/08/2022	Date Last Updated:	

Actor:	User
Description:	User is able to access the various features of managing bill.
Preconditions:	User is logged in to the application.
Postconditions:	User is shown and chooses what feature of bill management that the user want to use.
Priority:	High
Frequency of Use:	High
Flow of Events:	1. User clicks on the “Manage Bill” button. 2. System display the different options the user can use under “Manage Bill”.
Alternative Flows:	NIL
Exceptions:	NIL
Includes:	Split Bill Pay Bill Send Notification
Special Requirements:	NIL
Assumptions:	1. User is connected to the Internet.
Notes and Issues:	NIL



Use Case ID:	SB1		
Use Case Name:	Split Bill		
Created By:	Cheung Zhi Heng	Last Updated By:	Loh Sijing Aloysius
Date Created:	31/08/2022	Date Last Updated:	21/10/2022

Actor:	User
Description:	When the event has finished, every user will be notified of the amount they need to pay to other users.
Preconditions:	User is logged in to the application and is currently a room.
Postconditions:	User is able to see the amount that the user owes to the host or other individuals.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> <li>1. User clicks on the “Split Bill” button.</li> <li>2. SplitBillUI display list of members in current room</li> <li>3. User deselects members who are not included in the bill splitting and clicks the “Confirm” button.</li> <li>4. SplitBillUI displays text fields (item bought, cost of item) for attendees to enter total cost of items purchased for the event.</li> <li>5. User enters the details and clicks the “Submit”.</li> <li>6. System generates a list of how much each user owes the other users..</li> </ol>
Alternative Flows:	SB1-AF-S5 If item bought field is empty: <ol style="list-style-type: none"> <li>1. System displays “Please fill in an item.”</li> <li>2. Return to Step 4</li> </ol> SB1-AF-S5 If cost of item field is empty: <ol style="list-style-type: none"> <li>1. System displays “Please fill in cost of item.”.</li> <li>2. Return to Step 4</li> </ol>
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	1. User is connected to the Internet.
Notes and Issues:	NIL

Use Case ID:	PB1		
Use Case Name:	Pay Bill		
Created By:	Cheung Zhi Heng	Last Updated By:	Loh Sijing Aloysius
Date Created:	31/08/2022	Date Last Updated:	21/10/2022

Actor:	User
Description:	User is able to pay the amount that the user owes to other users after the event has ended.
Preconditions:	User is logged in to the application and attended an event.
Postconditions:	System shows a "Paid" button after they have successfully paid to the specific user.
Priority:	High
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> <li>1. HomeUI displays the list of users which the user owes money to. Each entry will have the name and the amount of money owed.</li> <li>3. User selects a name from the list to pay.</li> <li>4. System connects to the payment API to transfer the money to the user.</li> <li>5. User clicks on the check button to confirm payment.</li> <li>6. System displays a 'Paid' button after payment is made successfully.</li> <li>7. System updates the list of users the user owes money to.</li> </ol>
Alternative Flows:	NIL
Exceptions:	E1. System goes down/Unsuccessful Payment - In the case where the application has system error or there is a bug : <ol style="list-style-type: none"> <li>1. System displays an error message.</li> <li>2. User will try again and select a specific user to pay money.</li> </ol>
Includes:	NIL
Special Requirements:	NIL
Assumptions:	1. User is connected to the Internet.
Notes and Issues:	NIL

Use Case ID:	TH1		
Use Case Name:	View Transaction		
Created By:	Cheung Zhi Heng	Last Updated By:	Goh Kuan Wei, Eldrick
Date Created:	31/08/2022	Date Last Updated:	21/10/2022

Actor:	User
Description:	User is able to view the transaction histories that they have made previously in the application.
Preconditions:	User must have logged in to the application and made a transaction previously.
Postconditions:	System displays who and how much they paid and received for all previous events that the user has participated.
Priority:	Low
Frequency of Use:	High
Flow of Events:	<ol style="list-style-type: none"> <li>1. User clicks on the "Transaction History" button.</li> <li>2. JustJioMainUI sends request to the System.</li> <li>3. System retrieves transaction history from TransactionList.</li> <li>4. System returns the list to TransactionHistoryUI.</li> <li>5. TransactionHistoryUI displays User's transaction history.</li> <li>6. User can click on each transaction to view more details such as date and event name.</li> </ol>
Alternative Flows:	NIL
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	1. User is connected to the Internet.
Notes and Issues:	NIL

Use Case ID:	PG1		
Use Case Name:	Game Recommendation		
Created By:	Tey Kai Seong	Last Updated By:	Loh Sijing Aloysius
Date Created:	31/08/2022	Date Last Updated:	21/10/2022

Actor:	User
Description:	User is able to access the list of recommended party games.
Preconditions:	User is logged in to the application.
Postconditions:	User is shown and chooses party games that the user want to play.
Priority:	Low
Frequency of Use:	Medium
Flow of Events:	<ol style="list-style-type: none"> <li>1. User will click on the “Party Games” button.</li> <li>2. System will display the catalog of up to 30 party games that the user can choose.</li> <li>3. User can click on each game to view more details about the game</li> </ol>
Alternative Flows:	NIL
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	1. User is connected to the Internet.
Notes and Issues:	NIL

Use Case ID:	PS1		
Use Case Name:	Recommend Party Snacks		
Created By:	Tey Kai Seong	Last Updated By:	Loh Sijing Aloysius
Date Created:	31/08/2022	Date Last Updated:	21/10/2022

Actor:	User, Google Maps API
Description:	User is able to access the various nearby party snack options.
Preconditions:	User is logged in to the application.
Postconditions:	User can enter an address and system will then generate a list of options for which users can pick.
Priority:	Medium
Frequency of Use:	Medium
Flow of Events:	1. User enters an address in the search field. 2. System uses the Google Maps API to fetch a list of the closest options within a 10Km radius.
Alternative Flows:	NIL
Exceptions:	NIL
Includes:	NIL
Special Requirements:	NIL
Assumptions:	1. User is connected to the Internet. 2. User's device has location service turned on. 3. System is connected to Google Maps API
Notes and Issues:	NIL