LiViD

BHAVIK BHUNDIYA-186020307011

JAY NAKUM-186020307051

KISHAN DHOLAKIYA-186020307033

DATE :

ABSTRACT

- LiViD (short for *LIVe VIDeo*) is a streaming platform that provides live interaction using camera and screen sharing, which will provide connection to large audience for any live events.

- In LiViD, public and private live sessions can be scheduled and will provide end to end encryption and good security in private streams to ensure user data privacy. It contains a chat section where users can communicate with streamer. Users can create community posts sharing information about their upcoming sessions. LiViD has an internal currency called LCoins, which can be earned during live sessions and can be spent to get membership; and send gifts to their friends and fans. Becoming a member will give access to unlimited stream time, special chats and advertisements; for their promotion as a creator. Streamers will be ranked according to their statistics such as maximum watch time, maximum viewers and longest stream; based on which their LCoin revenue will increase.

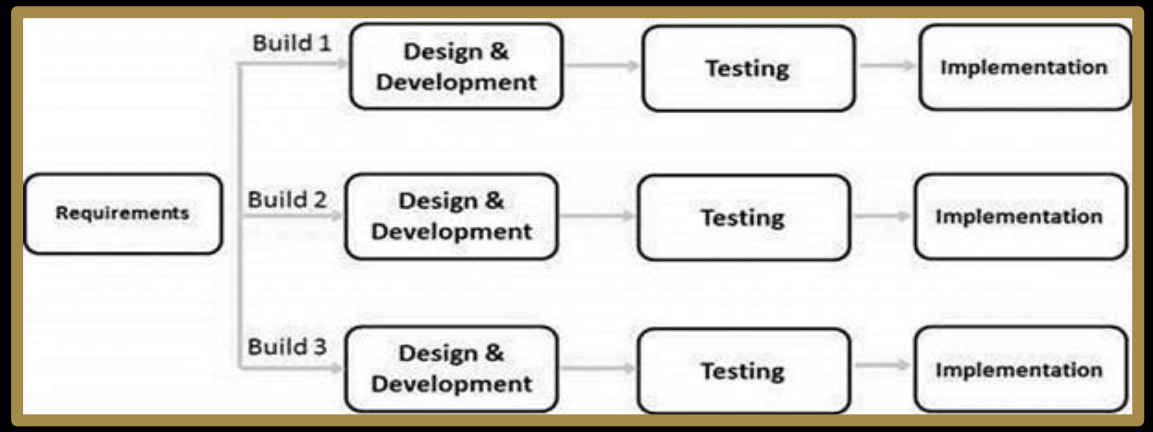
- LiViD will allow users to connect, interact and broadcast around the world at any time. With a smooth, fast and better experience *Let the world know what you're doin'!*

Software Development Model Used (SDLC)

Incremental Model is a process of software development where requirements divided into multiple standalone modules of the software development cycle. In this model, each module goes through the requirements, design, implementation and testing phases. Every subsequent release of the module adds function to the previous release. The process continues until the complete system achieved.

Reason to use:

- When the requirements are superior.
- A project has a lengthy development schedule.
- When Software team are not very well skilled or trained.
- When the customer demands a quick release of the product.
- You can develop prioritized requirements first.



List or Requirements as per SRS

- F1. Registration
- **Input:** Name, Email, Password, Profile photo
- **Output:** “Confirm registration by OTP”
- **Process:** Check constraints of mandatory fields and others and store data in database,
- and generate OTP.
- F2. Confirm Registration
- **Input:** OTP, Email
- **Output:** Registration status
- **Process:** check whether it is correct or not. Generate a tag, Send to Email.

- F3. Login
- **Input:** Email Id/Tag, Password.
- **Output:** Login Status
- **Process:** Check constraints of mandatory fields and others. And match Id and Password.

F4. Change Password/Forgot Password

- 4.1
- **Input:** User Details
- **Output:** Link will be received in mail
- **Process:** Generate a link to change password and send via email

- 4.2
- **Input:** New Password, Confirm Password
- **Output:** “Password changed successfully”
- **Process:** Update password in data-base

- F5. Explore
- **Output:** Display streamers rank wise
- **Process:** Calculate Rank according to Lscore

- 5.1 Search
- **Input:** Name/Id
- **Output:** Display streamers
- **Process:** Retrieve from Database

- F6. Buy membership
- **Input:** Membership Plans
- **Output:** “Membership purchased”
- **Process:** Deduct Lcoins from account/profile.

F7. Go live

- 7.1 Details for stream to display
  - **Input:** Title of stream*, Thumbnail*, Description, Schedule Session
  - **Output:** Preview

- 7.2 Advanced Options
  - **Input:** Enable/Disable special chats.
  - **Output:** “Settings saved”
  - **Process:** Start the live session according to saved settings

- F8 View Stream
- **Input:** Stream id
- **Output:** Play Stream
- **Process:** Retrieve stream data from server
- F9 Chat
- 9.1 Regular Chat
- **Input:** Chat Message
- **Output:** Comment On the stream
- **Process:** Show message in chat section
- 9.2 Special Chat
- **Input:** Chat Message, Lcoins (minimum 1)
- **Output:** Highlighted Comment in the Stream
- **Process:** Show message in chat section with Highlighted and notify streamer

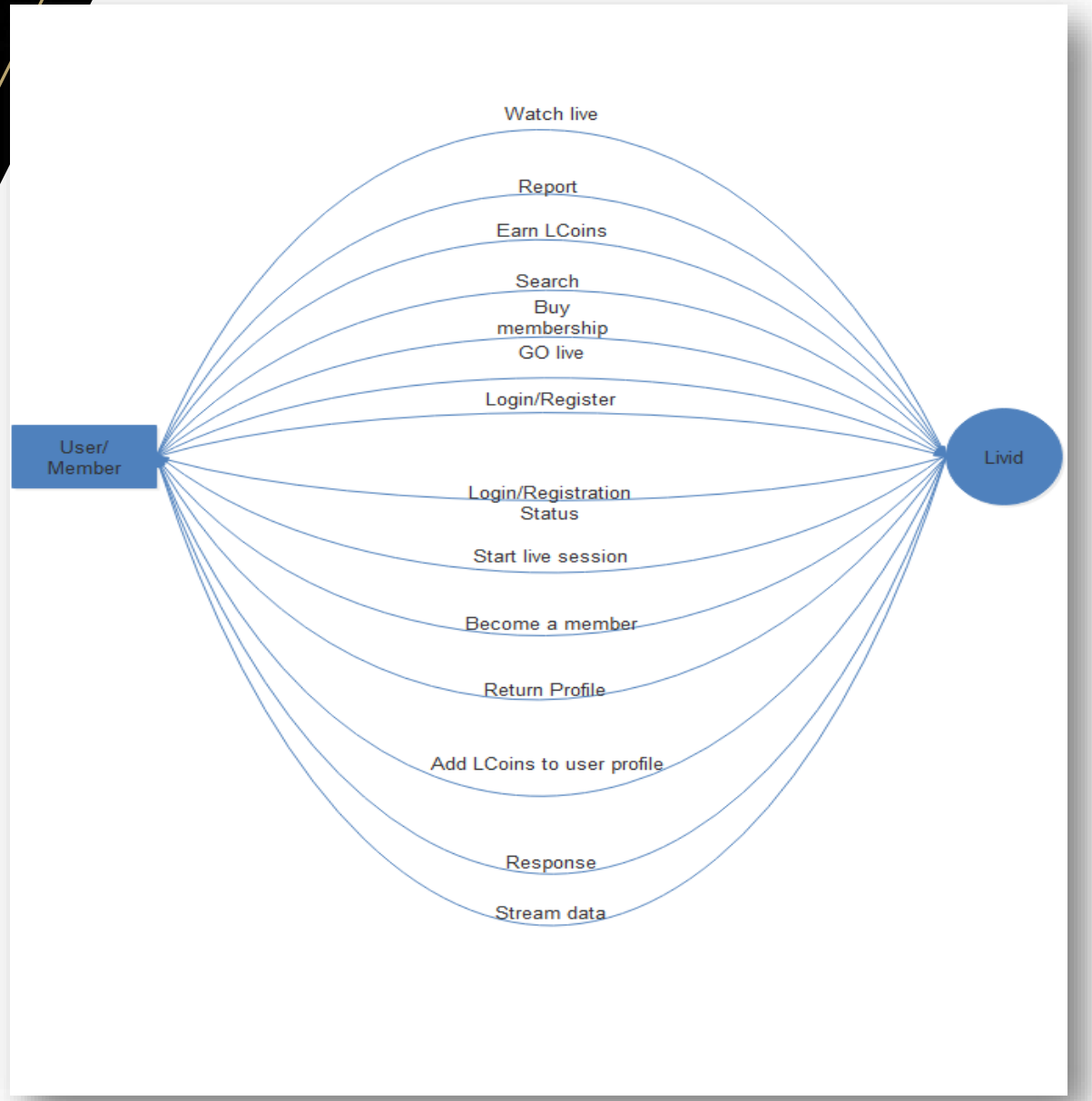
- F10 Statistics
- **Input:** Stream data from profile
- **Output:** Show stats graphs and Charts
- **Process:** Calculate required Data
- F11 Redeem LCoins
- **Output:** LCoins Credited
- **Process:** Add LCoin to user’s profile
- Received gifts & donations
- Special chats
- From ranking revenue [LScore / 1000]

F12 Convert LCoins to Money and purchase LCoins

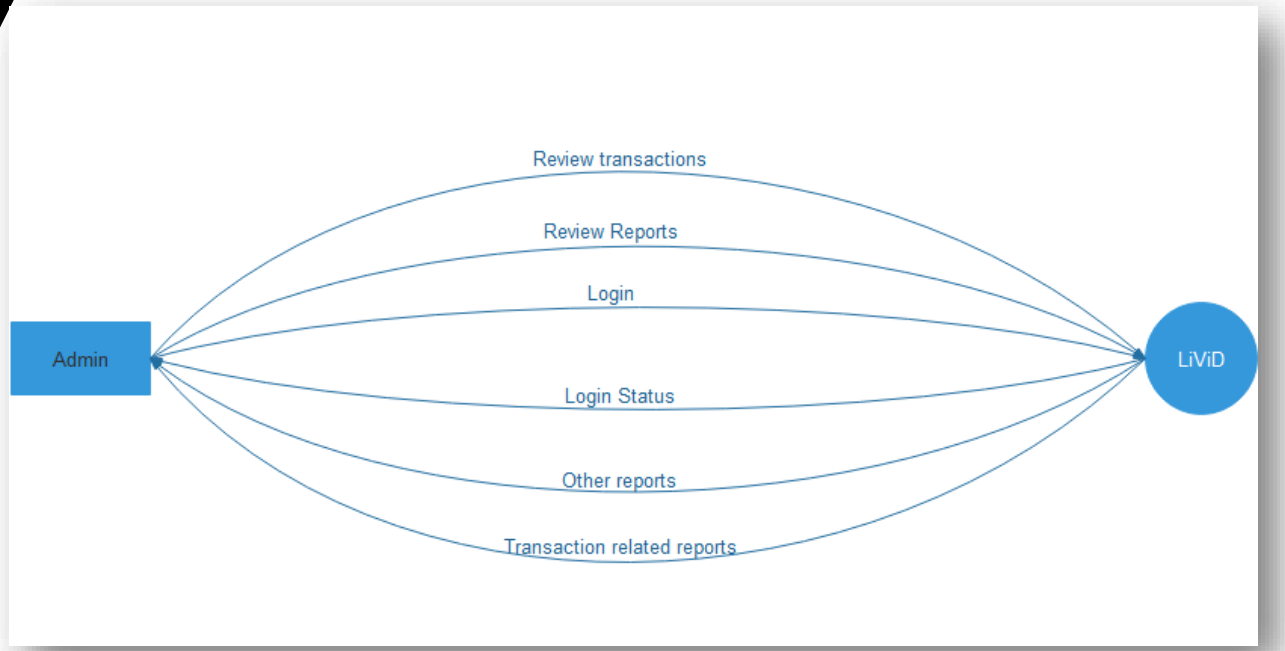
- **Output:** Simulation of Transaction

- F13 Contact Us/ Grievance and Report
- 13.1 User
- **Input:** Ask a Question
- **Output:** Reply from Admin/ Invalid Question
- **Process:** Add Question Box
- 13.2 Admin
- **Input:** Get Reply Message
- **Output:** Reply to User
- **Process:** Add Answer to Question Box

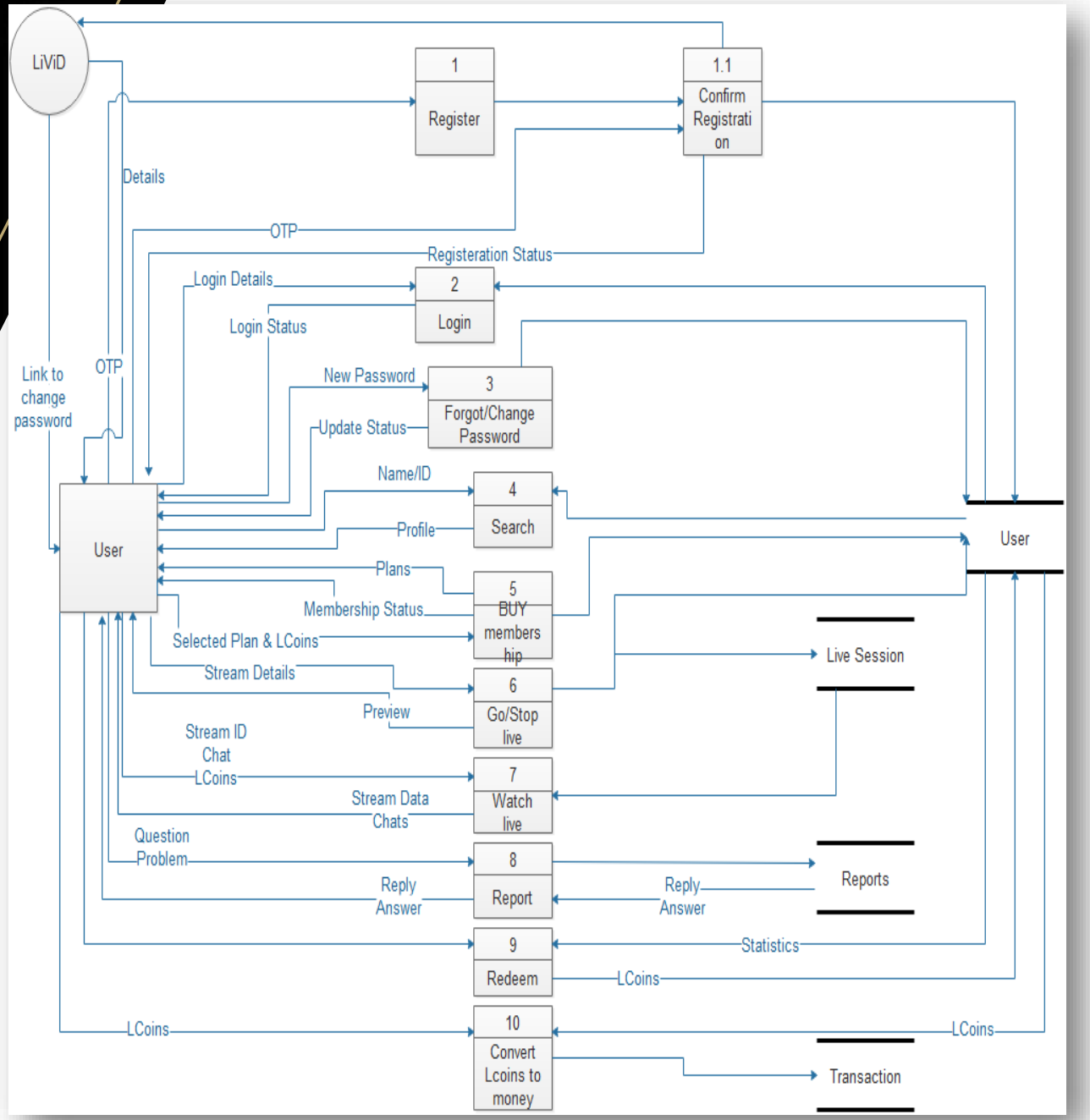
Level-0 Dataflow Diagram



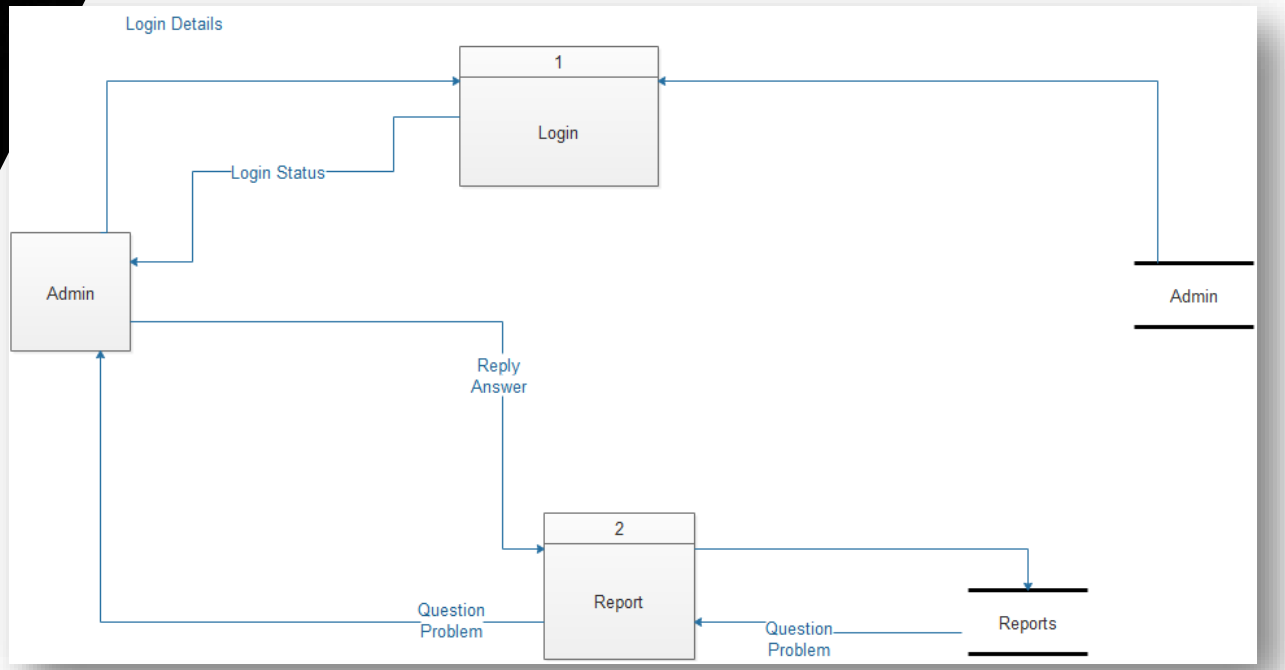
Level-0 Dataflow Diagram



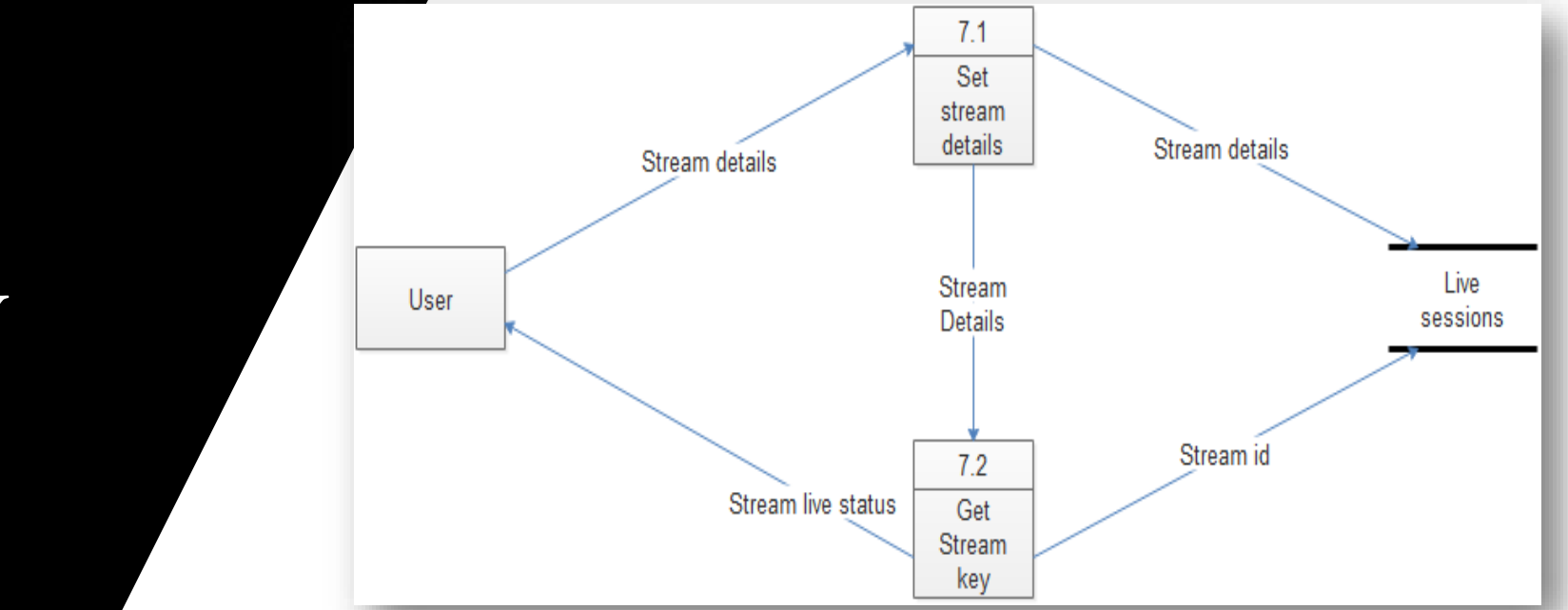
Level-1 Dataflow Diagram



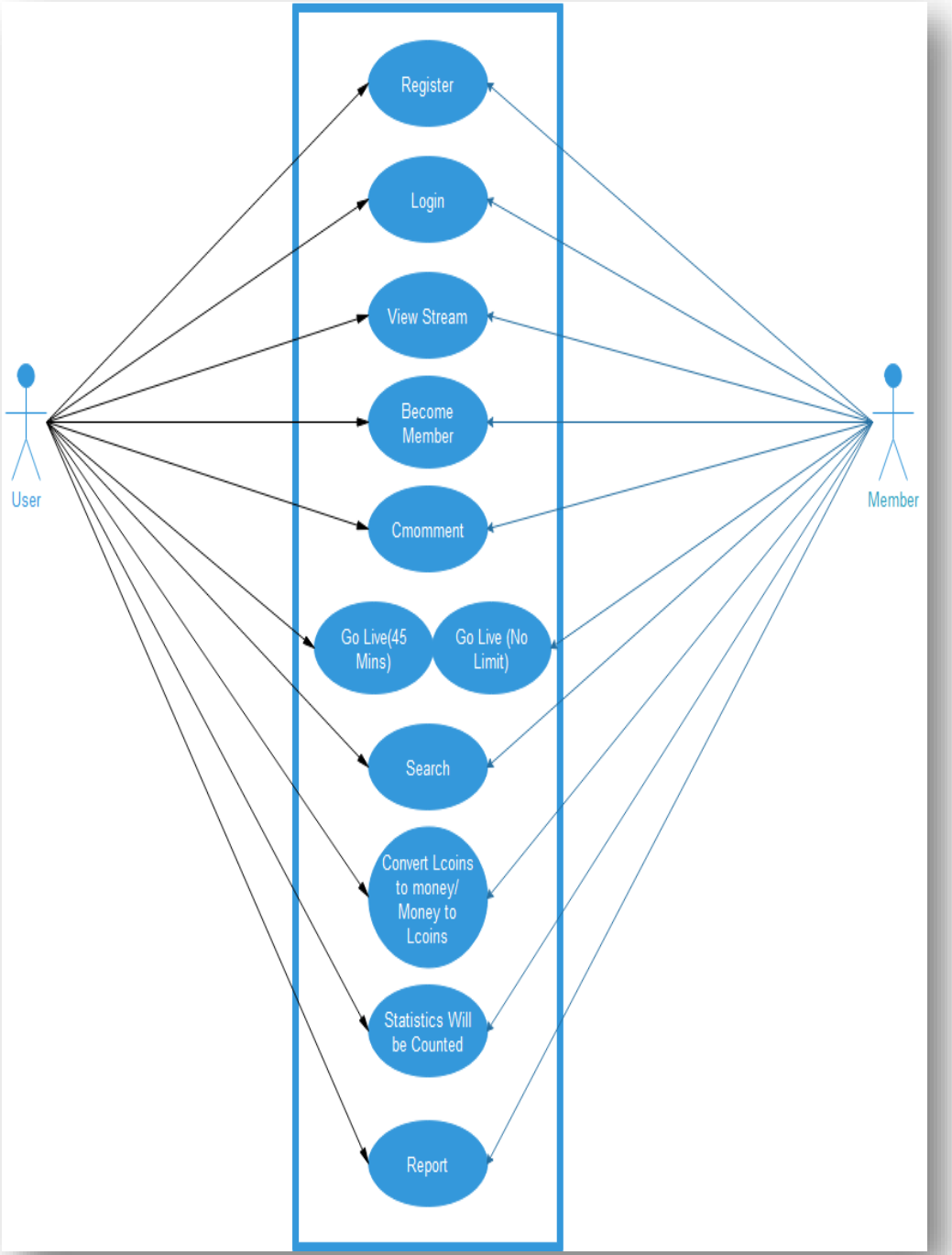
Level-1 Dataflow Diagram



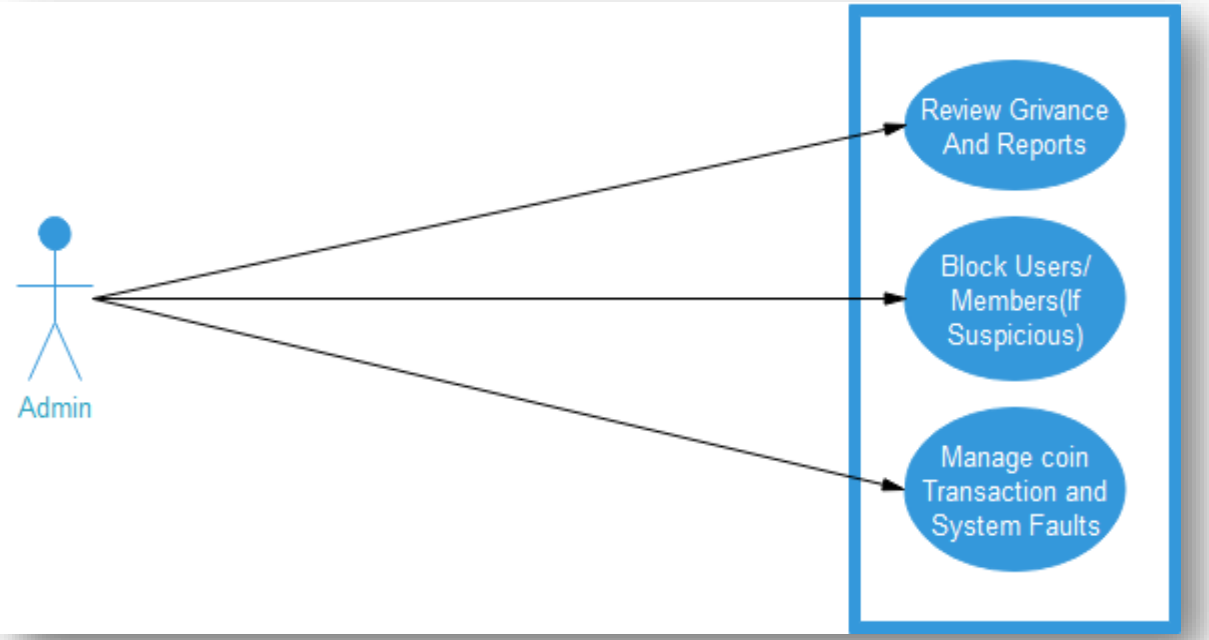
Level-2 Dataflow Diagram



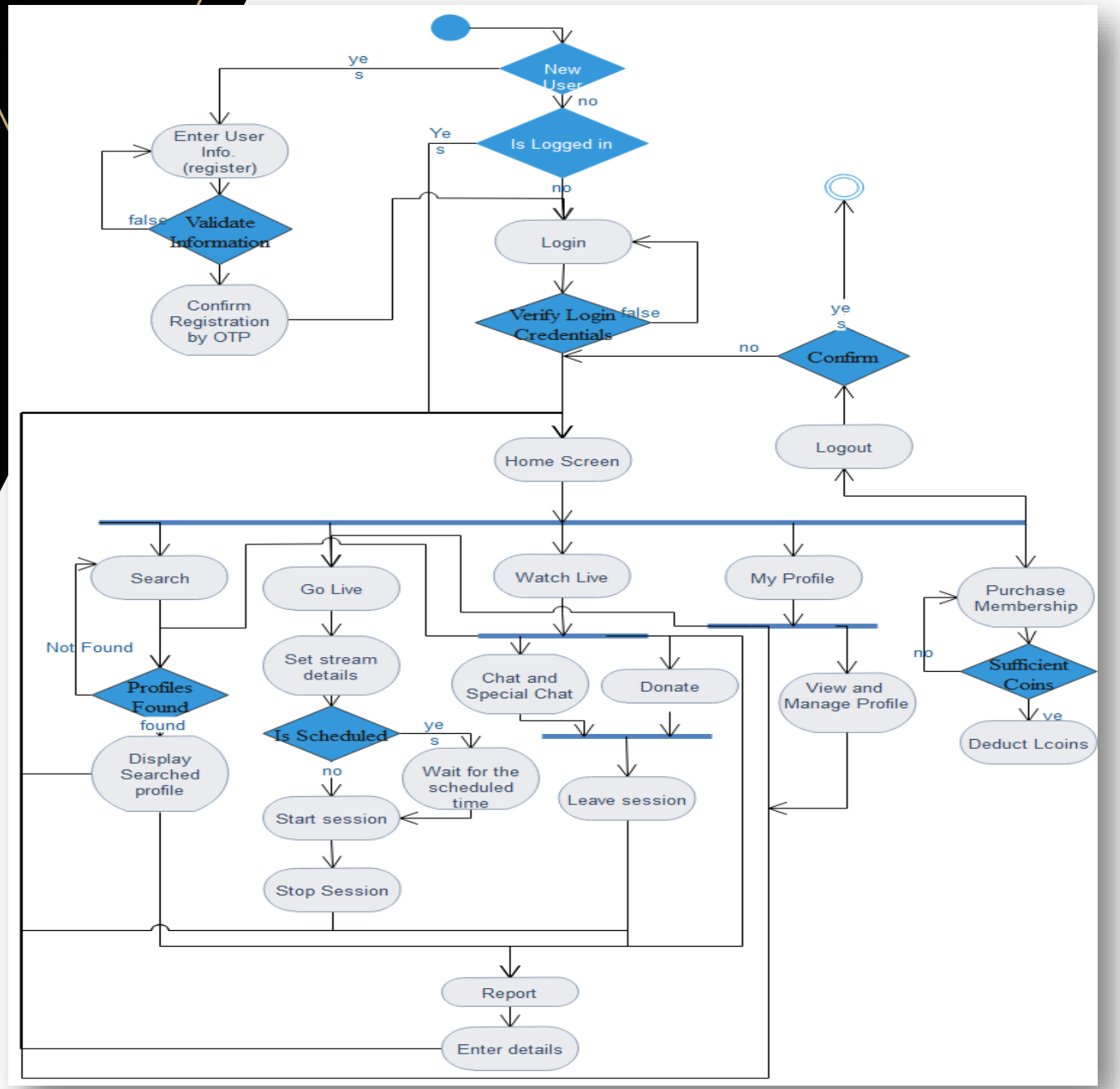
Use case Diagram



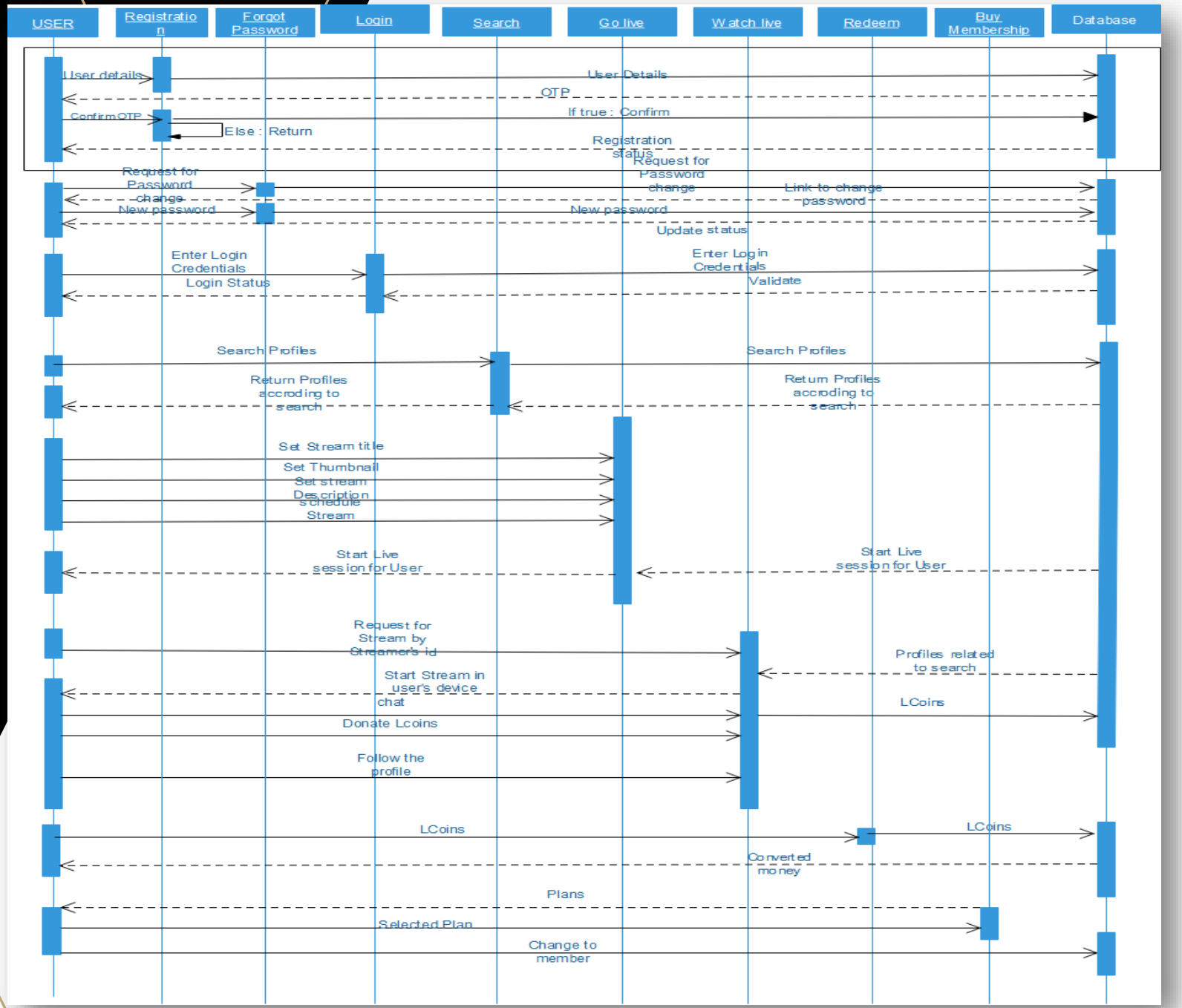
Use case Diagram



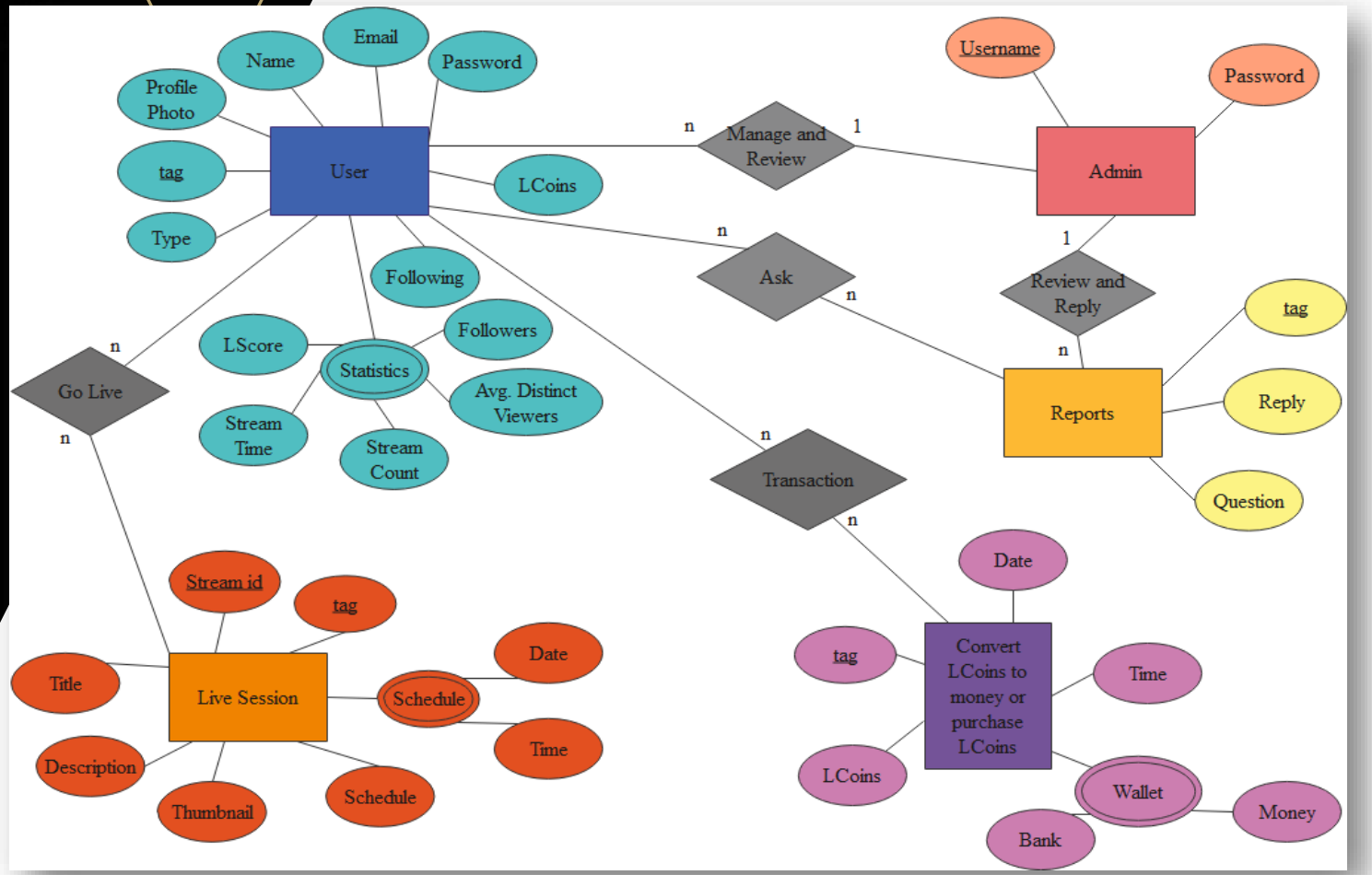
Activity Diagram



Sequence Diagram



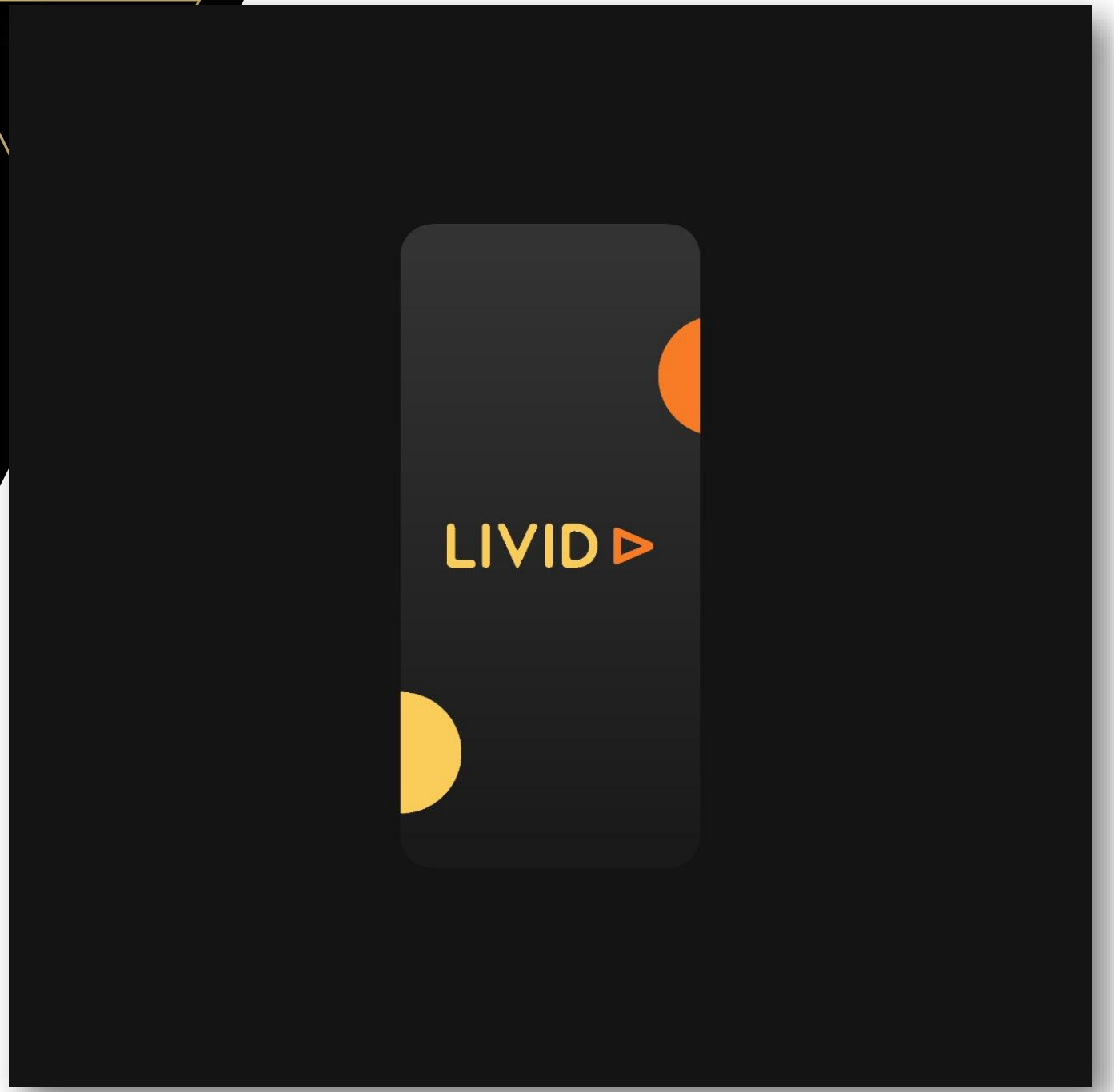
ER Diagram


Email
Name
Password
Profile Photo
tag
Type
User
LCoins
Following
Followers
LScore
Statistics
Avg. Distinct Viewers
Stream Time
Stream Count
Go Live
n
n
Manage and Review
n
1
Username
Password
Admin
1
Review and Reply
n
Ask
n
n
tag
Reply
Question
Reports
n
Transaction
n
Date
tag
Convert LCoins to money or purchase LCoins
Time
LCoins
Wallet
Money
Bank
Stream id
tag
Title
Live Session
Schedule
Date
Time
Description
Thumbnail
Schedule

Data Dictionary

Field Name	Size	Datatype	Description	Example
User				
Tag	9	Hex	Unique id for all user	1490
Name	20	Varchar	Display Name of The User	Pars Joshi
Email	40	Varchar	Linked Email Address	Contact.livid@gmail.com
Password	15	Varchar	Authentication	123pass
Profile Photo	200kb	Image	Display Image of the profile	
Type	1	Boolean	User Type (User/Member)	Member
Lcoins	10	Int	In-app Currency	420
Following	5	Int	No. of Users Following	5
Followers	10	Int	No. of Users Followers	20
Avg.Distinct View	10	Double	Average no. of viewers connecting to Stream	420.05
Stream Count	10	Int	Number of streams conducted by User	302
Stream Time		Time	Total time spent on stream	6hrs
Lscore	10	Double	Total Score achieved by user	469
Admin				
Name	20	Varchar	Display Name of Admin	Jay Nakum
Email	40	Varchar	Linked Email Address	erjaynakum@gmail.com
Password	15	Varchar	Authentication	696pass
Live Session				
Stream Id	20	Varchar	Unique Id of a stream	jaucbasu9hq121312
Tag	9	Hex	Unique Id of a user	1969
Title	30	Varchar	Title of Stream	Fall Guys Live | Jay Nakum
Description	1000	Long Text	Description about Stream or Streamer	Fall Guys India Live
Thumbnail	1mb	Image	Display Image of Stream	
Date	2	Date	Date of Stream	13-sept
Time	2	Time	Time of Stream	6pm
Transaction				
Date	8	Date	Date of Transaction	14-9-2002
Time	6	Time	Time of Transaction	09:30:00
Money	10	Int	Converted/convertible money	100
Lcoins	10	Int	Lcoins Converted	10
Tag	9	Hex	Unique tag of Lcoin Owner	1409
Transaction Id	10	Varchar	Unique Tag for Transaction	t140900001
Reports				
Tag	9	Hex	Unique Tag of Users	1409
Question	255	Varchar	Questions of user asked	"Inappropriate Username"
Reply	255	Varchar	Reply From Admin Side	"We'll take care of that"

Sample UI



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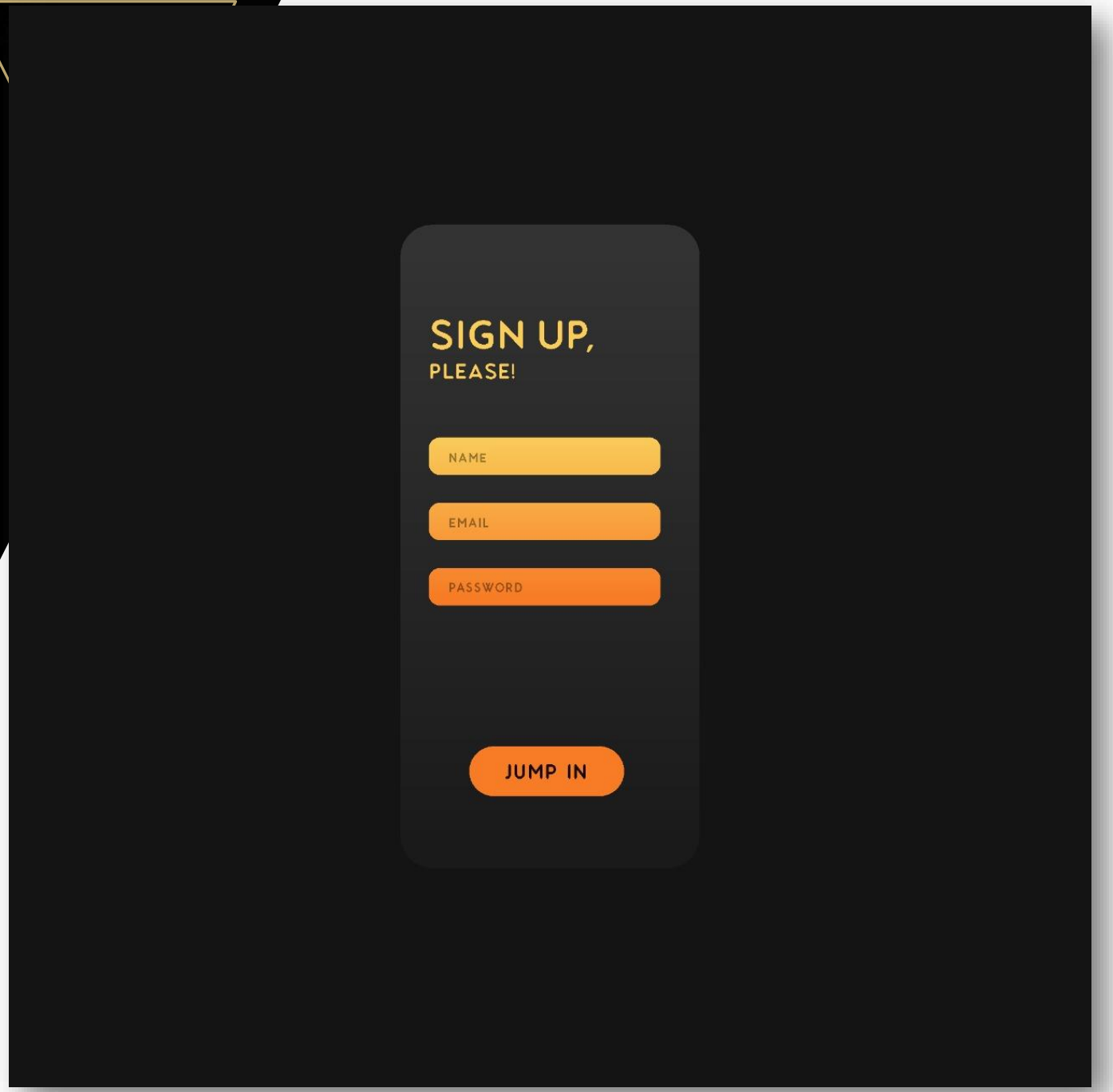

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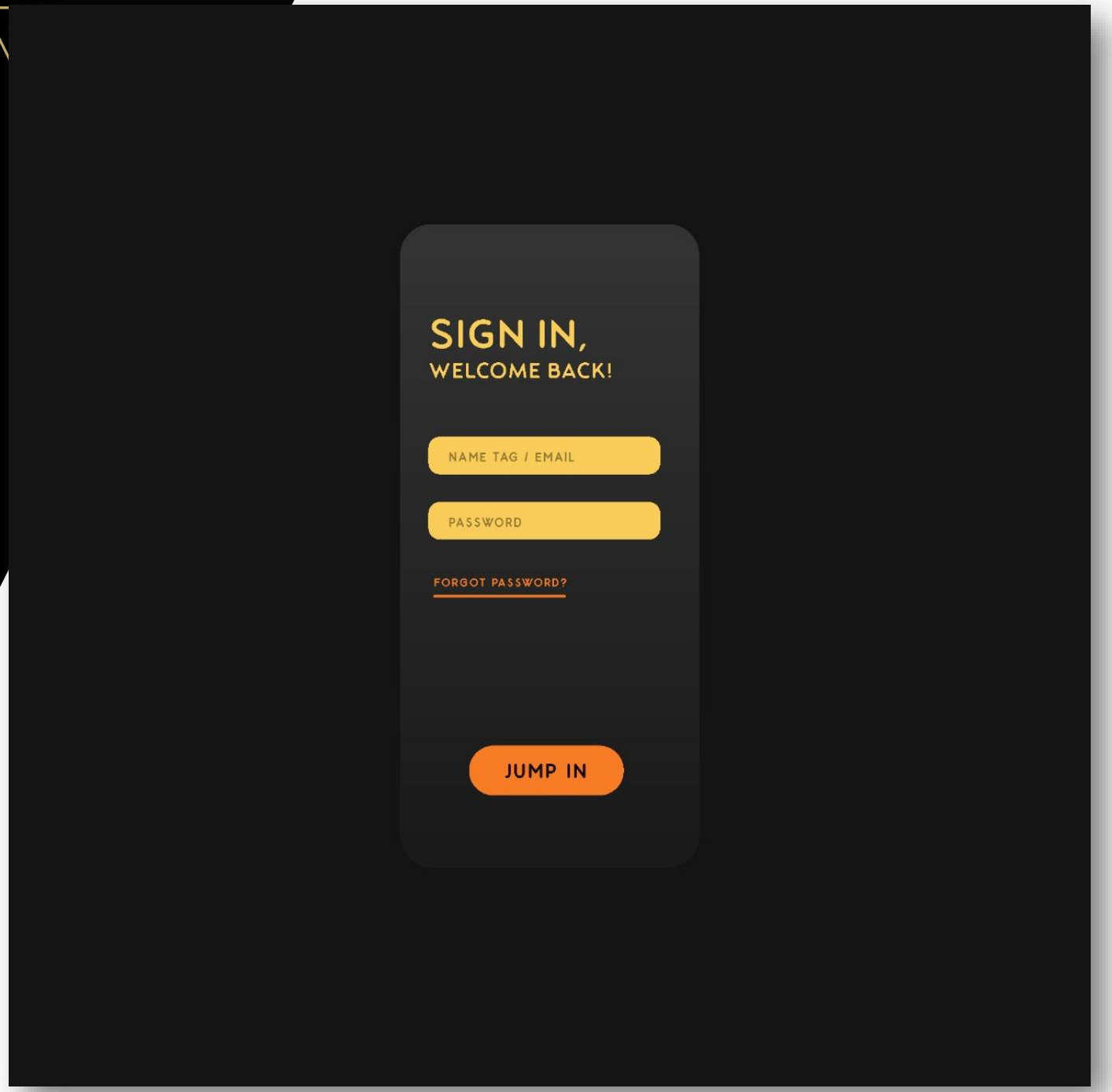
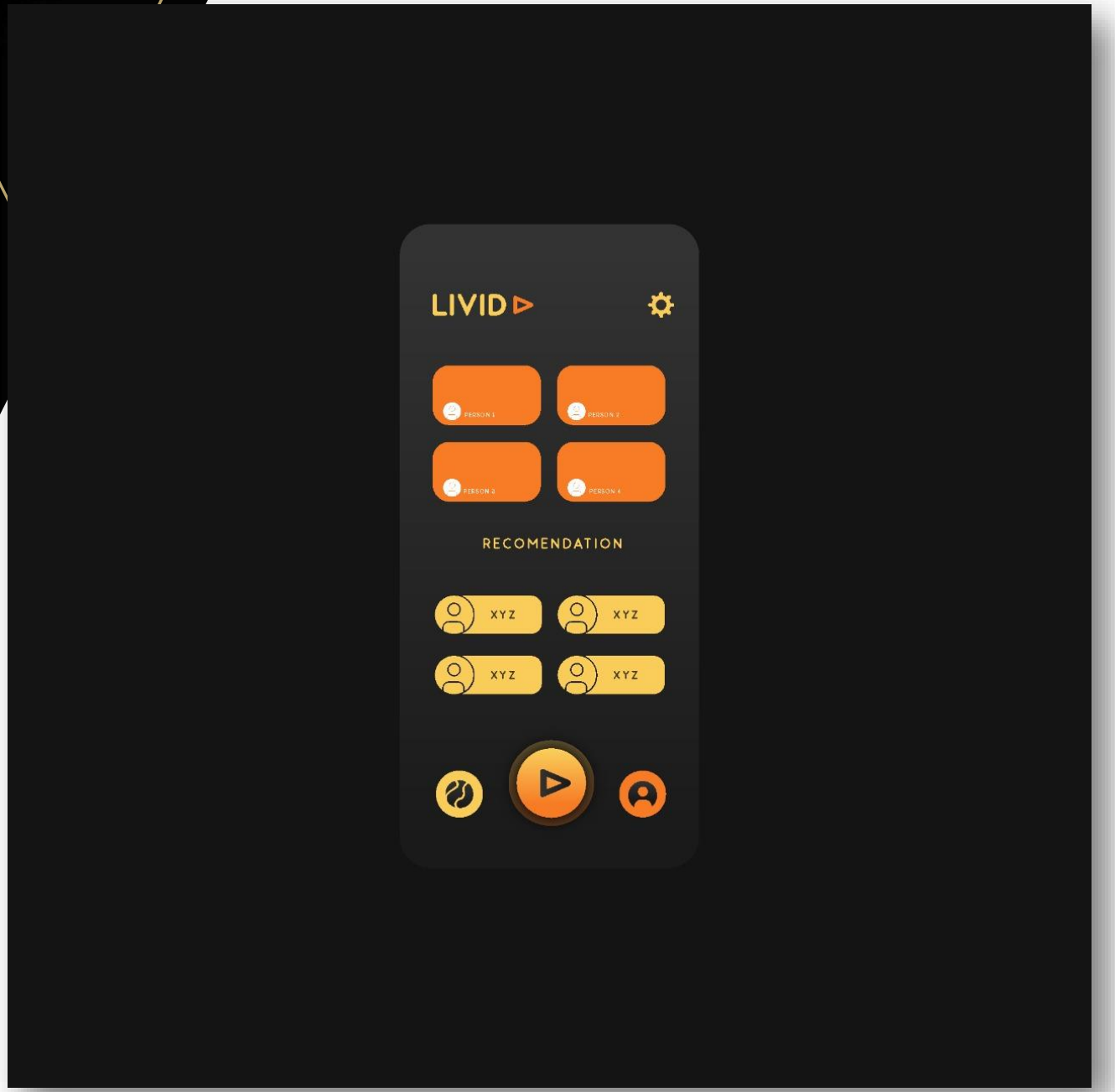

SIGN IN,
WELCOME BACK!
NAME TAG / EMAIL
PASSWORD
FORGOT PASSWORD?
JUMP IN

Sample UI



Sample UI

SEARCH
TOP STREAMERS
A
PARAS JOSHI
K
JAY NAKUM
Q
BHAVIK BHUNDIYA
J
KISHAN DHOLAKIYA

References

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- https://pin.it/2P3MkH9
- https://pin.it/7CsN0a8

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- https://pin.it/1UIKXTz
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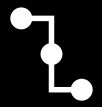
- https://www.javatpoint.com/software-engineering-incremental-model
- https://www.qualcomm.com/snapdragon/processors/comparison
- https://gadgets.ndtv.com/mobiles/micromax-phones

Thank You



Instagram

http://instagram.com/Jay__Nakum

http://instagram.com/_ig_parzival

http://instagram.com/_bhavikbhundiya

Twitter

http://twitter.com/Jay__Nakum

http://twitter.com/kishan9217

http://twitter.com/__DicTaToR1__

Email

contact.jaynakum@gmail.com

erbhavikbhundiya@gmail.com

kishan9217@gmail.com

Yesterday is history, tomorrow is a mystery, and today is a gift...that's why they call it present- Master Oogway (Kung-fu Panda)