

SMART INDIA HACKATHON 2020



Team - Hex#Clan



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Ministry - Department of Financial services

Technology Bucket - Mobile Application Developement

Problem Code - MK 23

Category - Software

Problem Statement -

"The Department of Financial Services (DFS) oversees several key programs/initiatives and reforms of the Government concerning the Banking Sector, the Insurance Sector and the Pension Sector in India. Therefore, it's very important for the concerned officials to be updated in respect of any news or changes that happen in these financial matters and the information should be available on mobile/email. Hence the department seeks to develop an information application that can send link or news related to these financial matters immediately to the concerned officials and can provide link to various circulars of the financial institutions like RBI, Banks, PFRDA, etc. as per the user's will. Design an app to allow broadcast of information by senior officials, and reporting of issues by all other officials to respective authorities."



Pension Sector

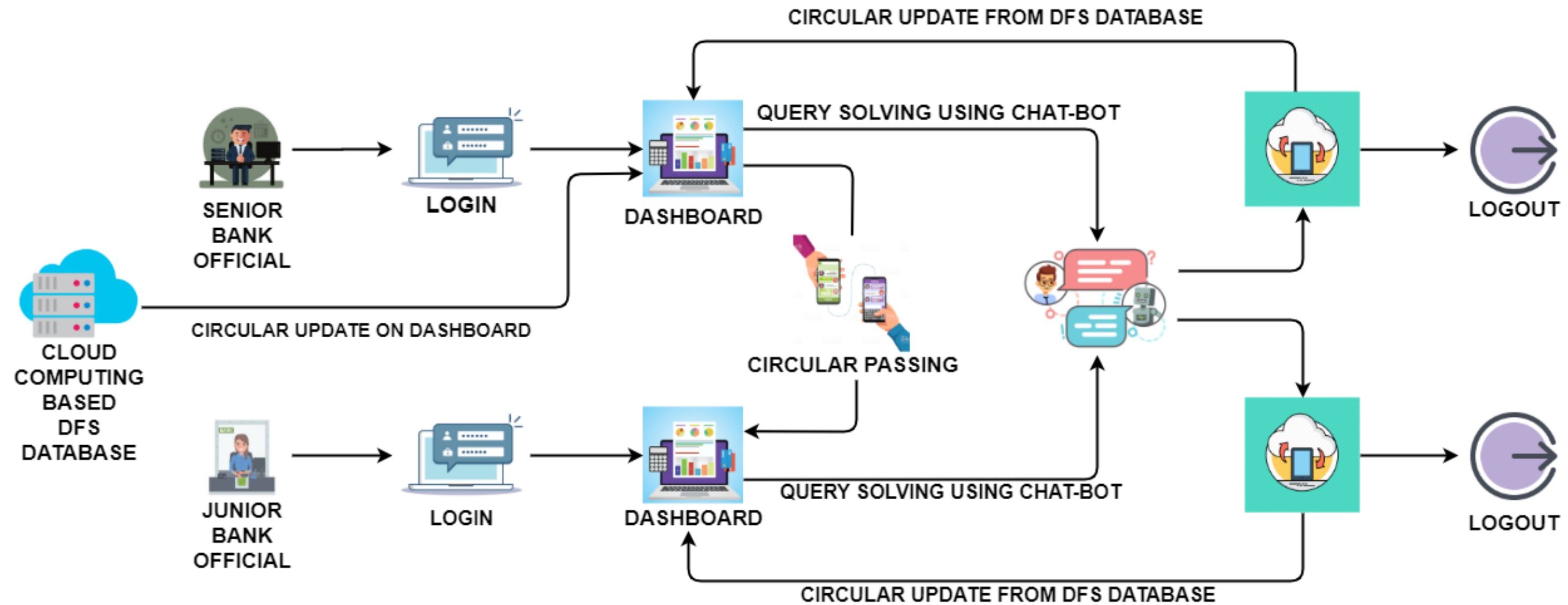


Investment Sector



Banking Sector

IDEA OF APPROACH



Circular Passing Includes

1. Circulars
2. Initiative/Program Details
3. Queries
4. Information
5. Data

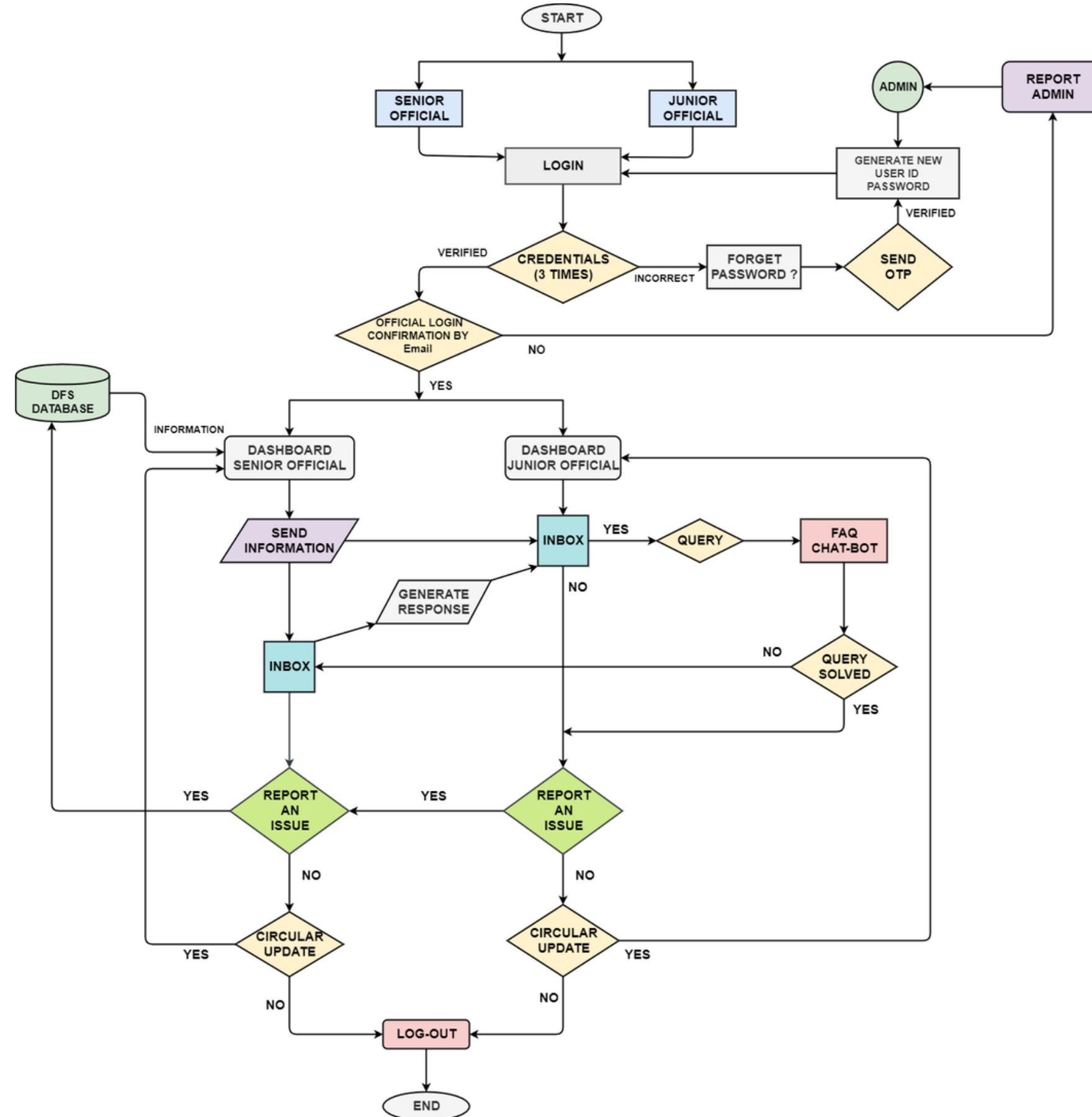
Sector Division

1. Banking Sector
2. Investment Sector
3. Pension Sector

Officials Division

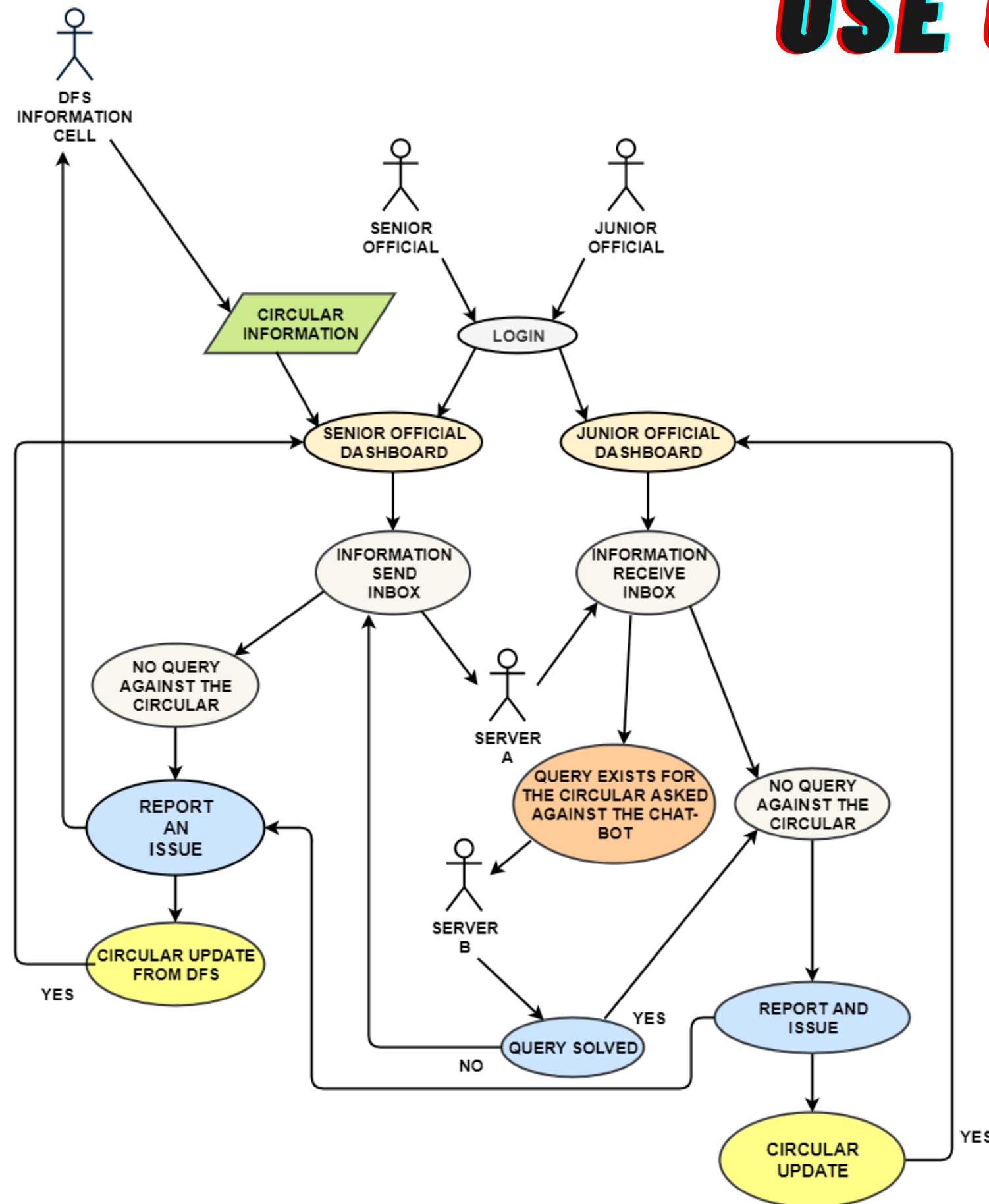
1. Senior Official - Information Provider
2. Junior Official - Information Retriever

FLOW CHART



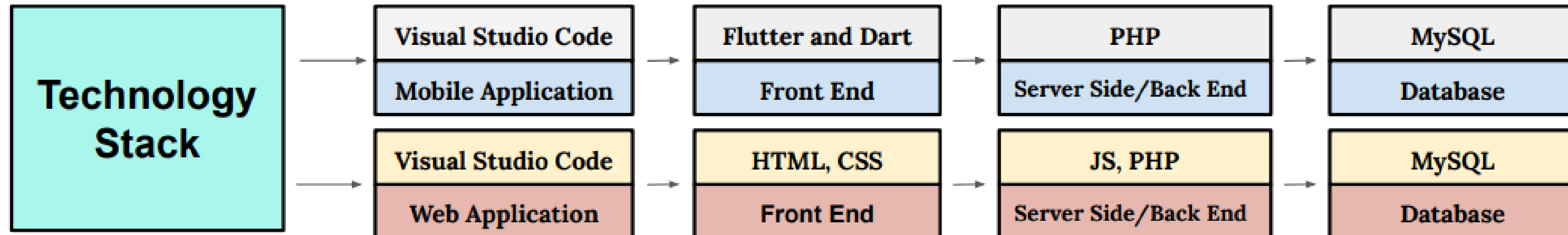
1. **FAQ CHATBOT** will answer all the basic queries regarding the circular passed.
2. Officials need to select their sector by the time of **One time Registration** that will be computed based on their information provided to Govt. or bank correspondingly
3. **Only Login** concept will avoid external unauthorized person to access the system
4. **Report an Issue** feature or easy commit changes in circular pass
5. **24x7 Circular Passing** irrespective of holidays

USE CASE



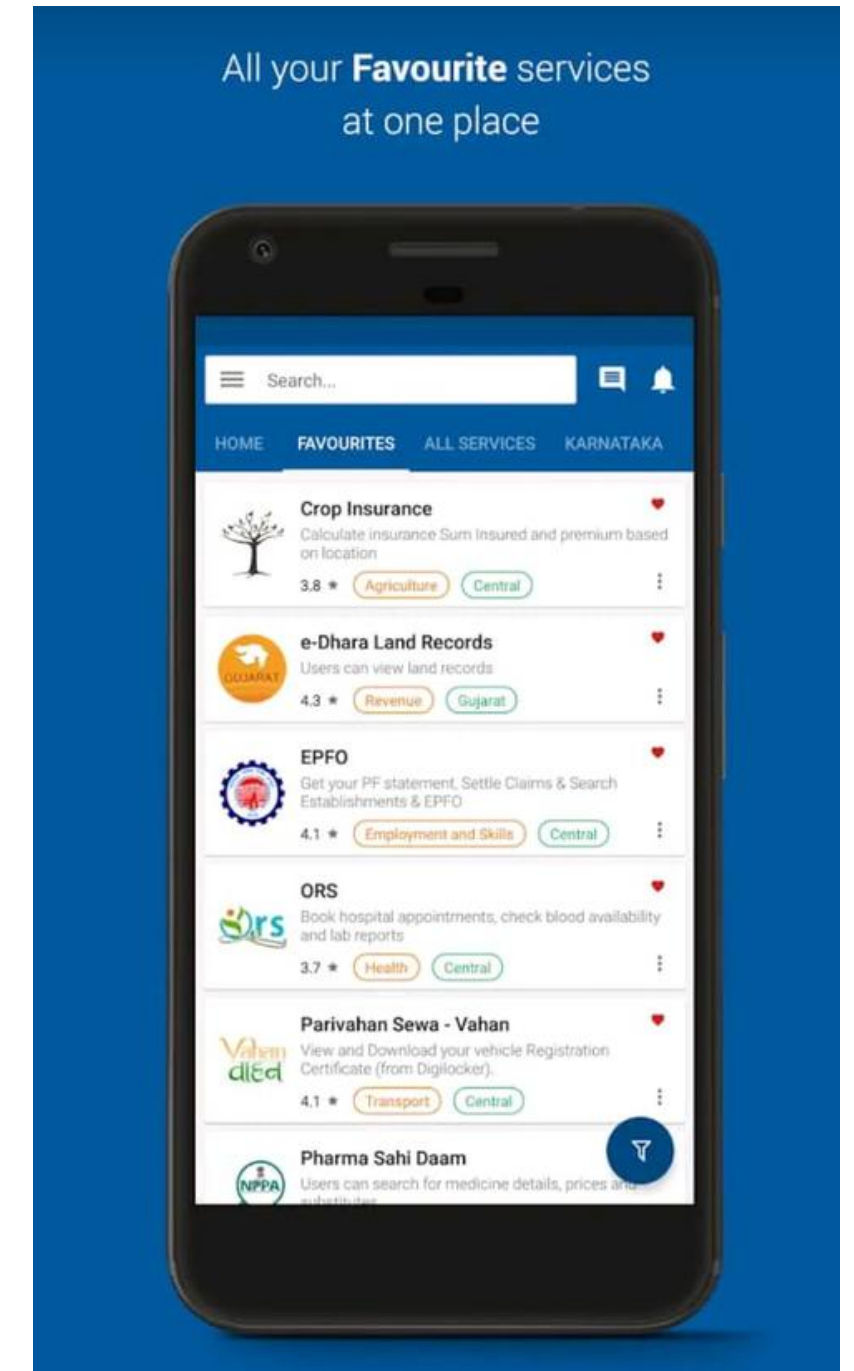
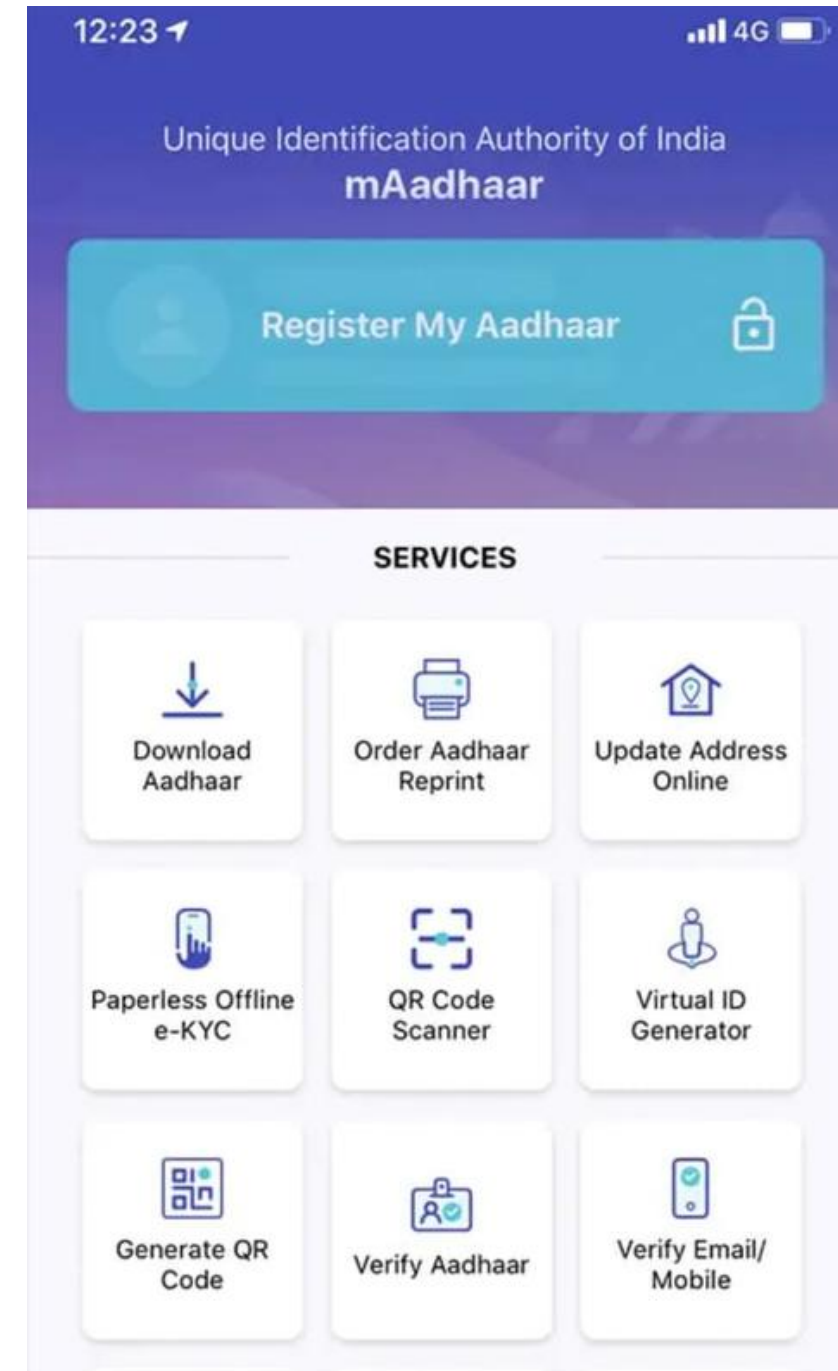
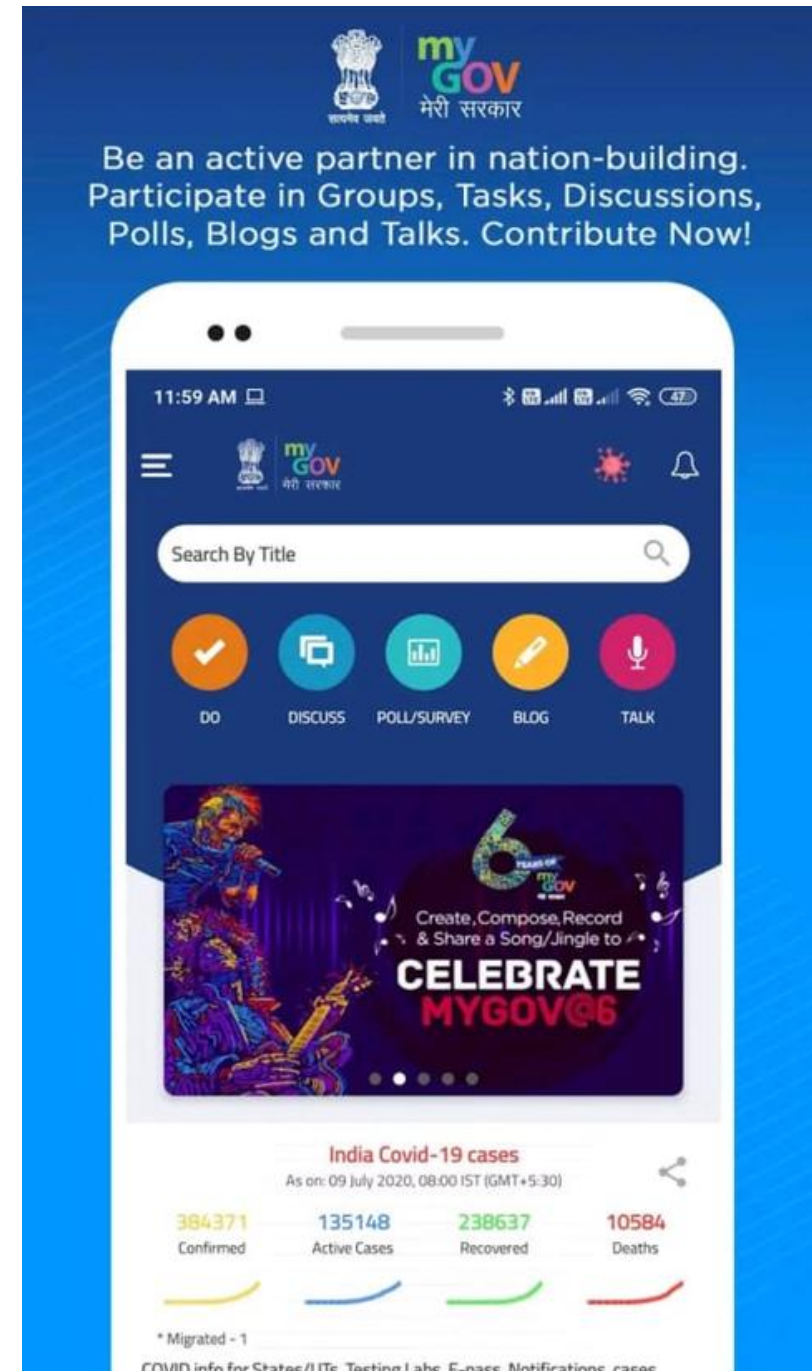
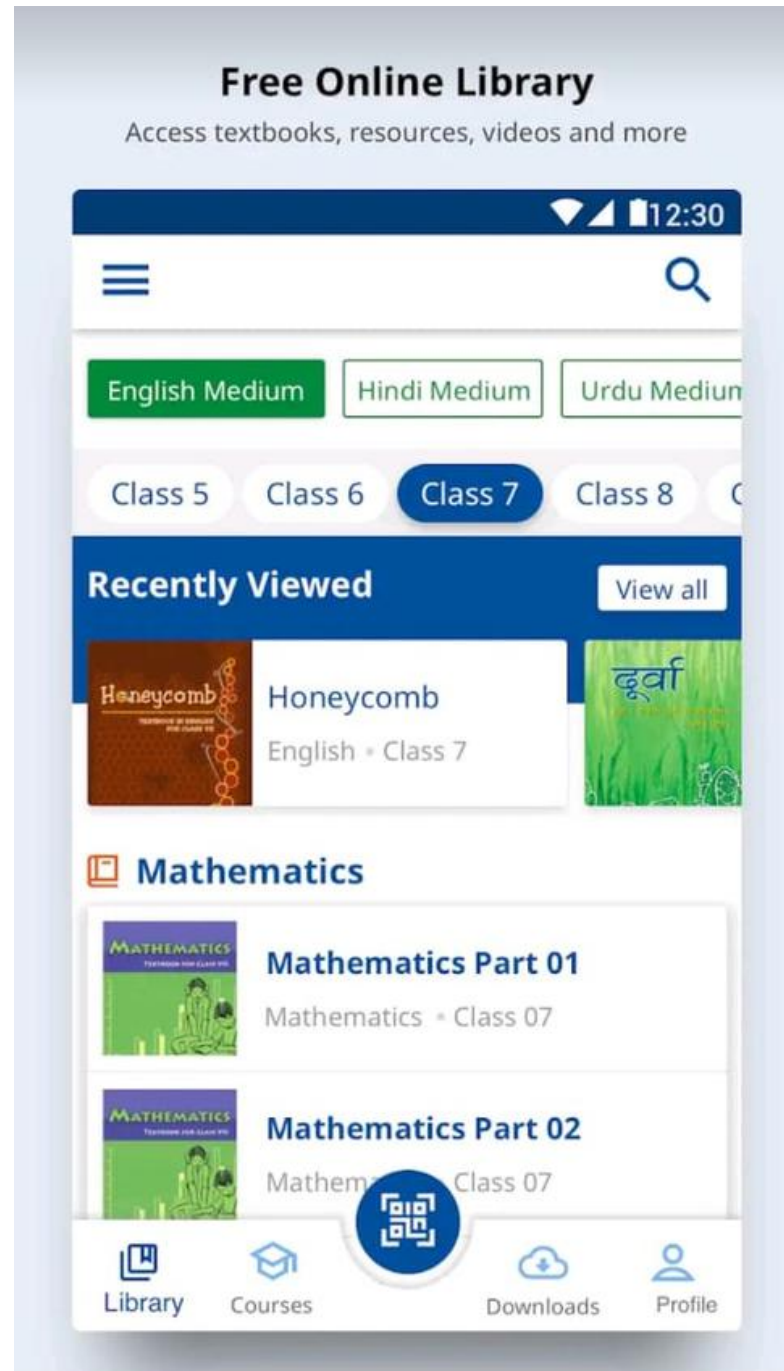
1. **Senior Official** - Responsible to share Information based on Sectors
2. **Junior Official** - Responsible to accept Information based on Sectors
3. **Server A** - Information passing from Senior Official to Junior Official
4. **Server B** - Handle Query using FAQ CHATBOT or generate query to Senior Official
5. **DFS Information Cell** - Information Passing to Senior Officials

APP TECHNOLOGY AND WORKING



1. Multilingual Interface
2. Bridges the gap between Financial Sectors and Information Sharing
3. Provides a 2-way communication
4. Authorize and Authenticate users using their data stored in DFS database
5. Unique ID will be generated for each user at the time of registration based on choice of their sector
6. Information passing will be based on Type Of Sectors
7. Query Solving using CHATBOT
8. Facial Recognition feature to ensure login security at extreme level

UI IDEAS



BLOCKCHAIN IMPLEMENTATION

Blockchain Demo

Hash **Block** Blockchain Distributed Tokens Coinbase

Block

Block: # 1

Nonce: 72608

Data: 12

Hash: 0aba3c7450166cffffa2c84509bed44a135bf82a0715c86196d0b6f3c70d720d6

Mine

Decryption

Blockchain Demo

Hash **Block** Blockchain Distributed Tokens Coinbase

Block

Block: # 1

Nonce: 64943

Data: 12

Hash: 0000e8d0f0d0360038e6a3b6fd39229a13d0148bd7aa2c6fd81cb0c350c3767a

Mine

Encryption

Proposed Solution



User Login Based On Sector And Hierarchy Of Officials



Communication Channel Provided For Circular And Information Passing



Query Solving And Expert Solution At Instant Time

Key Features



Facial Recognition Login



Cloud Stored Data



Platform Independent



Query Solving using CHAT-BOT



24 x 7 Data Surveillance



Authenticate And Authorize User