

System Design Document

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Sprint 1



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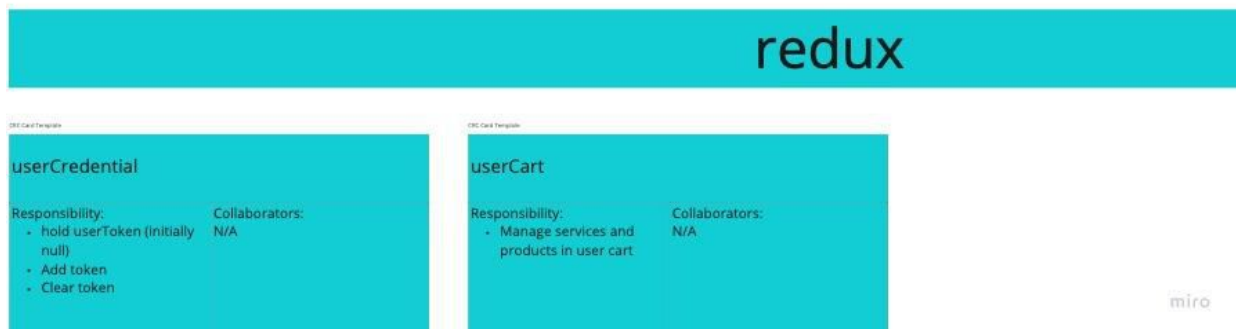
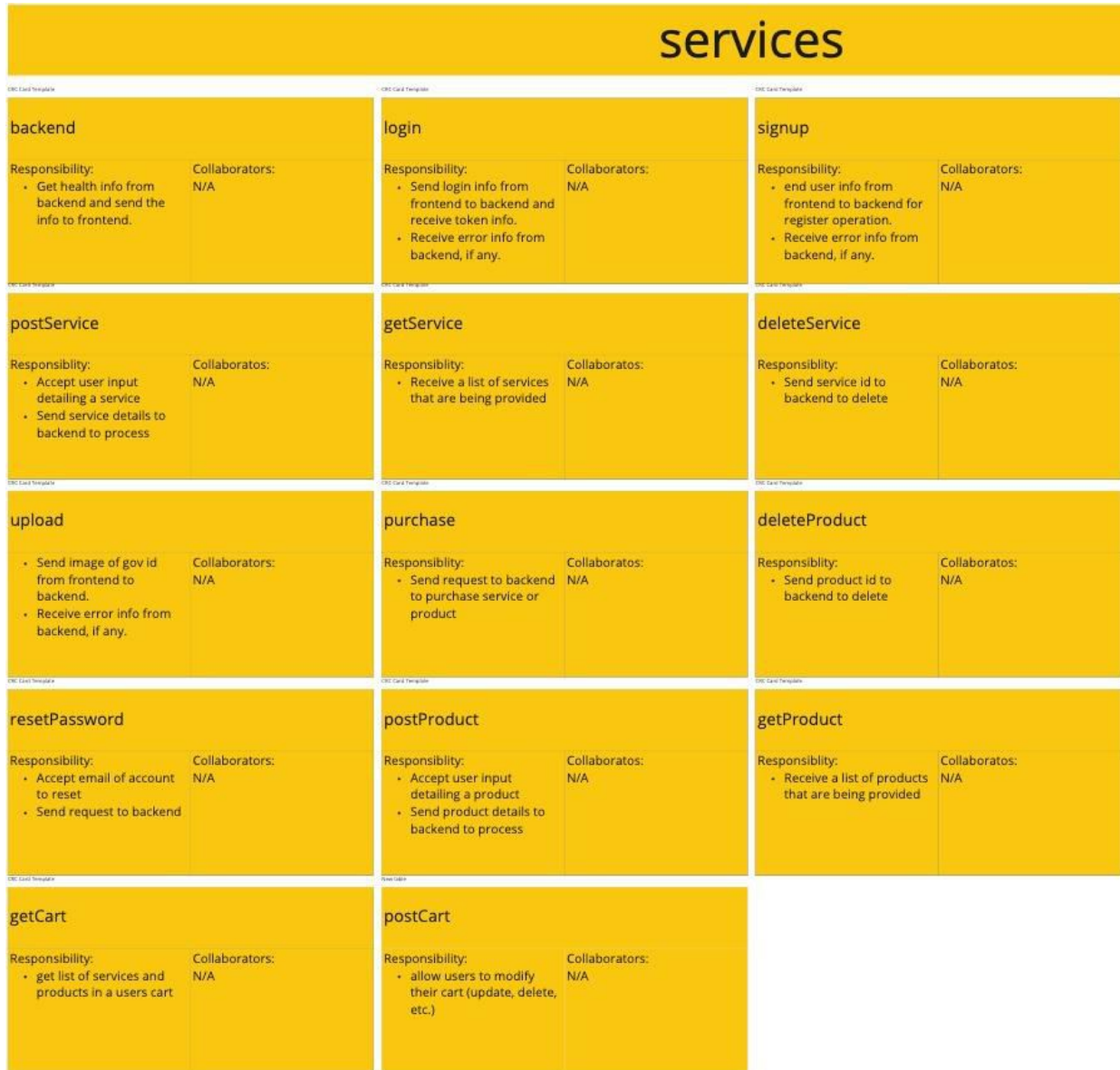
Payam Yektamaram

Table of Contents

CRC Cards	2
Frontend	2
Backend	4
System Architecture Diagram (Node.js Layered Arch)	6
Frontend	6
Architecture	6
Backend	7
Server Endpoints & Descriptions	7
Database Schema Models	8
Architecture	9

CRC Cards

Frontend



screens

CRC Card Template

SignInScreen

Responsibility:

- Allow user to input email and password
- Validate user credentials
- Authenticate user session
- Link to Sign-Up.
- Link to Forgot-Password.

Collaborators:

- login
- userCredential

CRC Card Template

SignUpScreen

Responsibility:

- Accept email, username, and password to register new user
- Validate user input
- Link to SignInScreen

Collaborators:

- signup

CRC Card Template

ResetPasswordScreen

Responsibility:

- Accept email of account to reset password
- Accept new password

Collaborators:

- resetPassword

CRC Card Template

HomeTabScreen

Responsibility:

- Provide detailed search functionality for services

Collaborators:

- N/A

CRC Card Template

ServicesTabScreen

Responsibility:

- List available services
- Provide filtering functionality
- Allow verified users to post their own service
- Allow user to view a specific service in more detail
- Allow user to delete their own service
- Allow user to purchase service

Collaborator:

- postService
- getService
- deleteService
- purchase

CRC Card Template

StoreTabScreen

Responsibility:

- List available product
- Provide filtering functionality
- Allow user to view a specific product in more detail
- Allow admin to delete product
- Allow user to purchase product

Collaborators:

- postProduct
- getProduct
- deleteProduct
- purchase

CRC Card Template

AccountTabScreen

Responsibility:

- List user info
- Allow user to upload government id
- Allow user to log out

Collaborators:

- upload

CRC Card Template

CartTabScreen

Responsibility:

- List services and products in the users cart
- Allow user to manage their cart

Collaborators:

- getCart
- postCart
- userCart

miro

CRC Card Template

Store (Placeholder)

- [To be implemented]
- [To be implemented]

CRC Card Template

Account

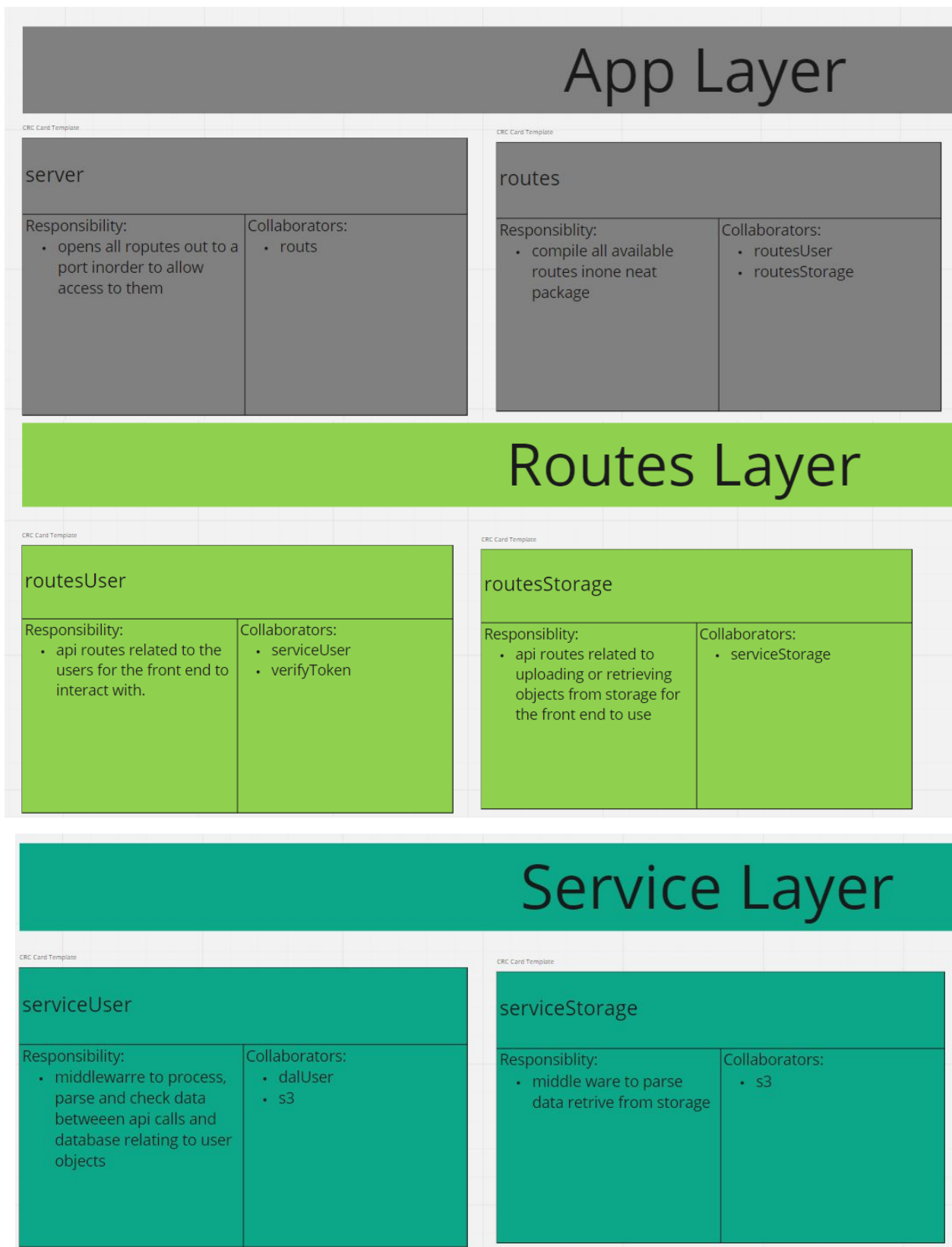
- Profile Photo Image
- Name text
- Verification logo image
- Location Text
- Number of pets text
- Personal Information Button
- Payment Information Button
- Verify Account Button
- Notifications Button
- Messages Button
- Download gov id from user and send it to backend for verification.
- /services/upload

CRC Card Template

Cart (Placeholder)

- [To be implemented]
- [To be implemented]

Backend



Data Access Layer

CDC Card Template

dalUser

Responsibility:

- upload and query user related objects from the database
- utilfunction related to user objects

Collaborators:

modelUser
modelUserCredentials
modelVerificationRequests

Models

CDC Card Template

modelUser

Responsibility:

- define User object schema

Collaborators:

N/A

CDC Card Template

modelUserCredentials

Responsibility:

- define UserCredential object schema

Collaborators:

N/A

CDC Card Template

modelVerificationRequest

Responsibility:

- Define VerificationRequest object schema

Collaborators:

N/A

Utils

CDC Card Template

s3

Responsibility:

- upload and retrieve objects from s3 bucket

Collaborators:

N/A

CDC Card Template

verifyToken

Responsibility:

- verify session token

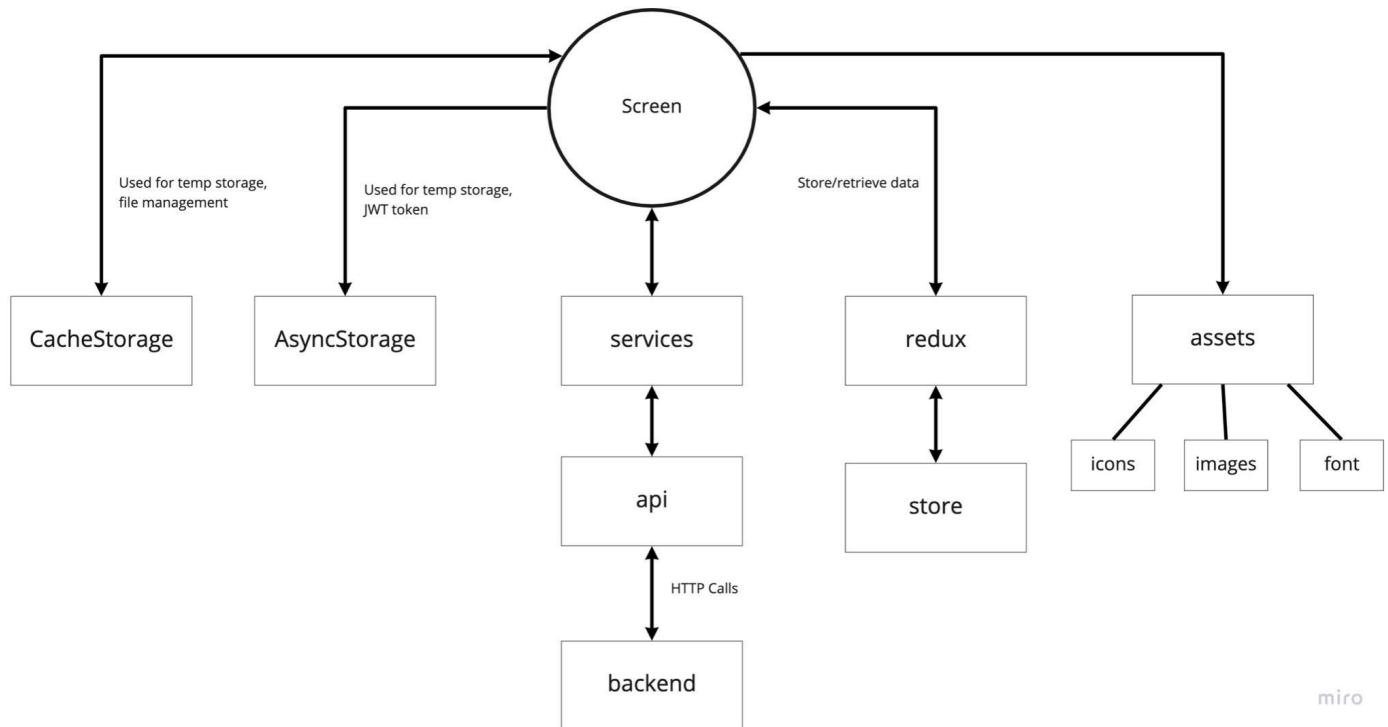
Collaborators:

N/A

System Architecture Diagram ([Node.js Layered Arch](#))

Frontend

Architecture

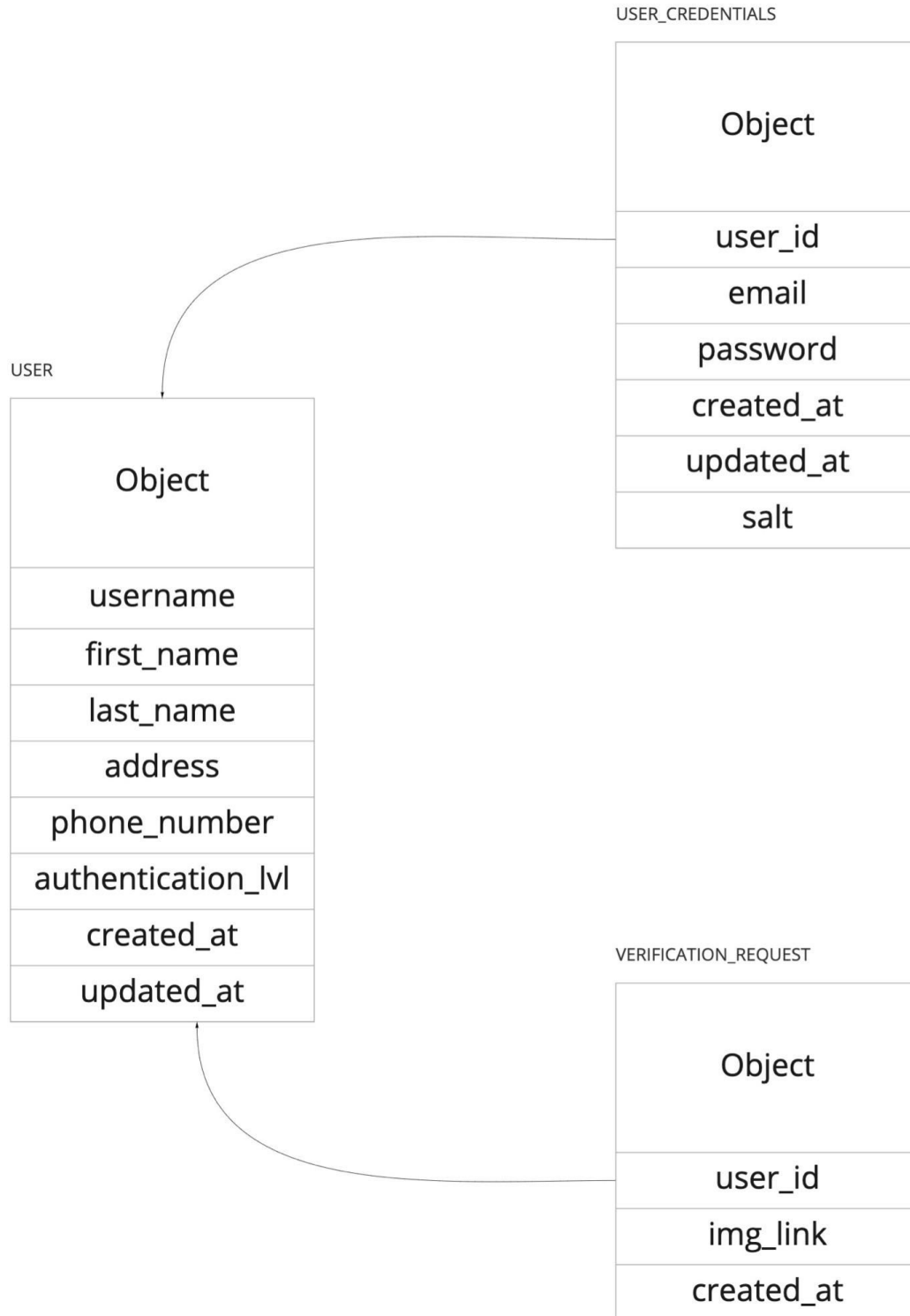


Backend

Server Endpoints & Descriptions

Summary	Path	Auth Required	Verification level Required	Method	Payload	Response
Register	/api/v1/users/register	No	None	POST	{ email: email, username: user, password: password }	USER
Login	/api/v1/users/login	No	None	POST	{ email: email, password: password }	USER
Forgot Password	/api/v1/forgot-password/{email}	No	None	POST	email: email	None
Reset Password	/api/v1/reset-password/{email}	No	None	POST	{ encryptedEmail: email, encryptedOTPid: id, otp: code, password: password }	USER
Update Account Details	/api/v1/users/self	Yes	User	PUT	{ first_name: f_name, last_name: l_name, address: address, phone: phone }	USER
Request Verification	/api/v1/users/self/request-verification	Yes	Unverified User	POST	gov-id: png/jpg	None
Retrieve Verification	/api/v1/verification-request	Yes	Owner/Admin	GET		List[Verification_request]
Approve	/api/v1/verification-request	Yes	Owner/Admin	PUT	{ user_id: user_id, approved: boolean }	None
Get Account Details	/api/v1/users/self	Yes	User	GET	None	USER
Get Account Details By Id	/api/v1/users/{user_id}	No	None	GET	None	USER
Get Image	/api/v1/storage/media/{image_key}	No	None	GET	None	png/jpg

Database Schema Models



Architecture

