Block Diagram

SB-07

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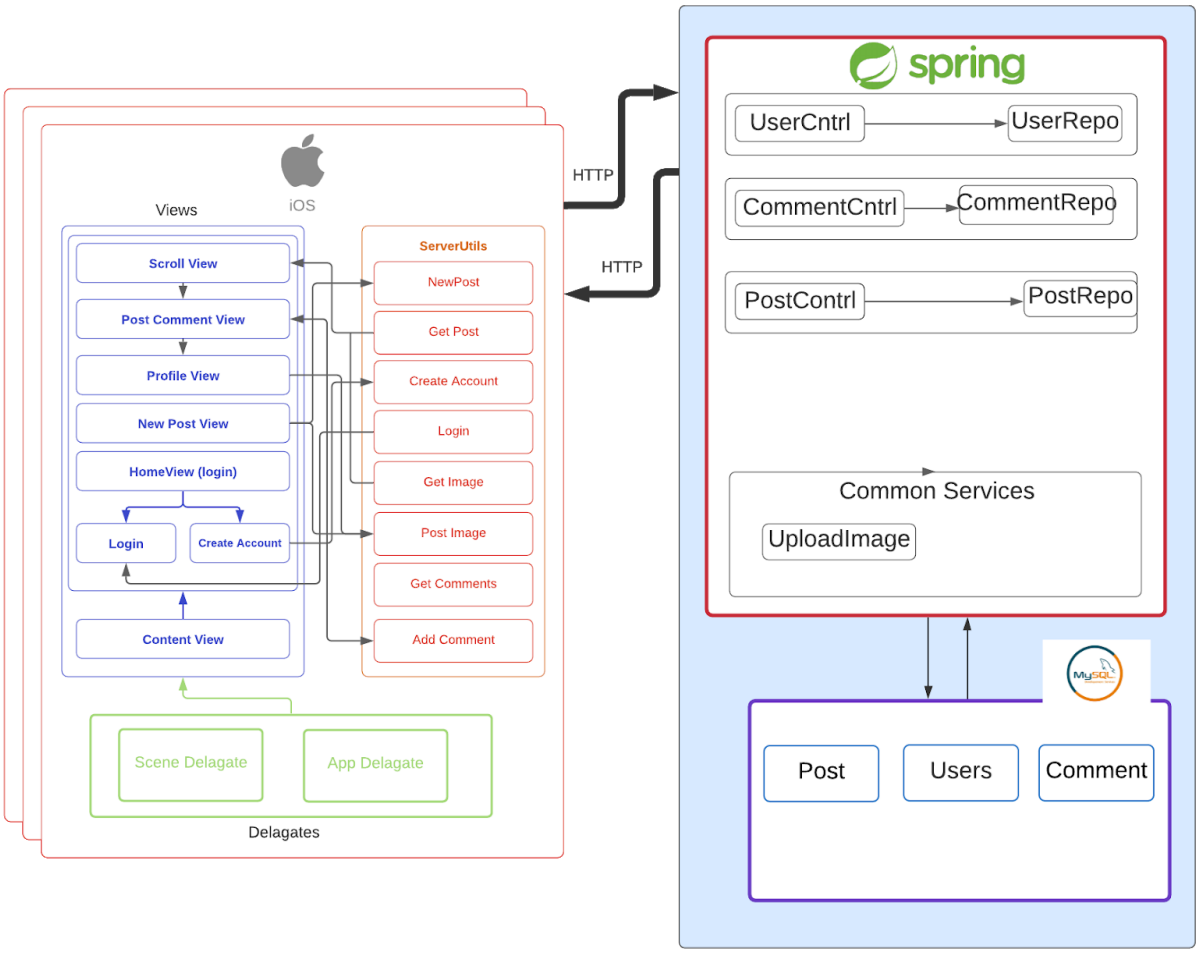
Cy-Talk


iOS
Views
Scroll View
Post Comment View
Profile View
New Post View
HomeView (login)
Login
Create Account
Content View
ServerUtils
NewPost
Get Post
Create Account
Login
Get Image
Post Image
Get Comments
Add Comment
Scene Delagate
App Delagate
Delagates
HTTP
HTTP
spring
UserCntrl
UserRepo
CommentCntrl
CommentRepo
PostContrl
PostRepo
Common Services
UploadImage
MySQL
Post
Users
Comment

Design Description

Frontend Controller

For this application, the swift class ServerUtils acts as the controller. Upon loading the app it initializes the scrollview by calling the Get Posts method to retrieve the JSON data from the model and display it. When a new post is made, the add post method is called encoding a new post with content and user information and sending it to the model. With an attempt to login or create an account, the login in and create account methods respectively are used. It uses the Get image method for the scroll view and profile view, and post image for the new post view.

Fronted View

The frontend for this application is built using swiftUI which is a iOS development library. The views consist of a set of swiftUI views which all stem from the content view. When the view loads it calls the server utils function corresponding to the necessary function, such as the scroll view calls the getPosts method and displays the array of post objects that were created.

Backend Controllers

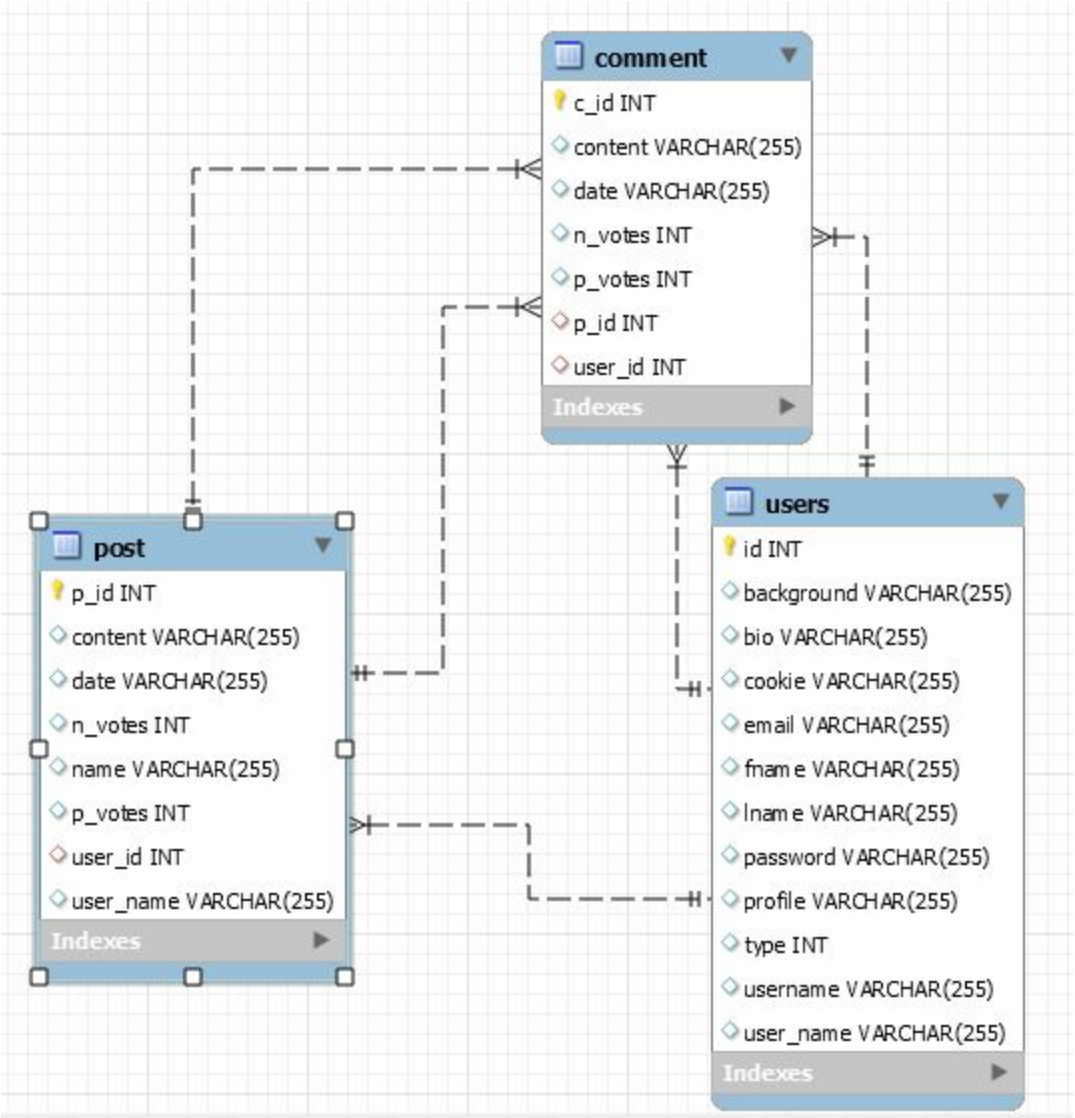
The user controller deals with user information like username, password, email etc. and the profile and bio information for each user. The frontend can create or edit user information which updates the users table in the MySQL database. This controller also deals with user types like general and administrator and user login.

The post controller deals with information about posts such as content, upvotes, downvotes, date, post id, etc. The frontend can create and edit posts which automatically gets updated in the MySQL database.

The comment controller deals with information about comments such as content, upvotes, downvotes, date, comment id, etc. The frontend can create and edit comments which automatically gets updated in the MySQL database.

Backend Service

The UploadImages service deals with uploading and downloading images. The controllers call this service to upload posts/profile images or delete them.


comment
c_id INT
content VARCHAR(255)
date VARCHAR(255)
n_votes INT
p_votes INT
p_id INT
user_id INT
Indexes
post
p_id INT
content VARCHAR(255)
date VARCHAR(255)
n_votes INT
name VARCHAR(255)
p_votes INT
user_id INT
user_name VARCHAR(255)
Indexes
users
id INT
background VARCHAR(255)
bio VARCHAR(255)
cookie VARCHAR(255)
email VARCHAR(255)
fname VARCHAR(255)
lname VARCHAR(255)
password VARCHAR(255)
profile VARCHAR(255)
type INT
username VARCHAR(255)
user_name VARCHAR(255)
Indexes