Design Document for Gastby

Group MC_07

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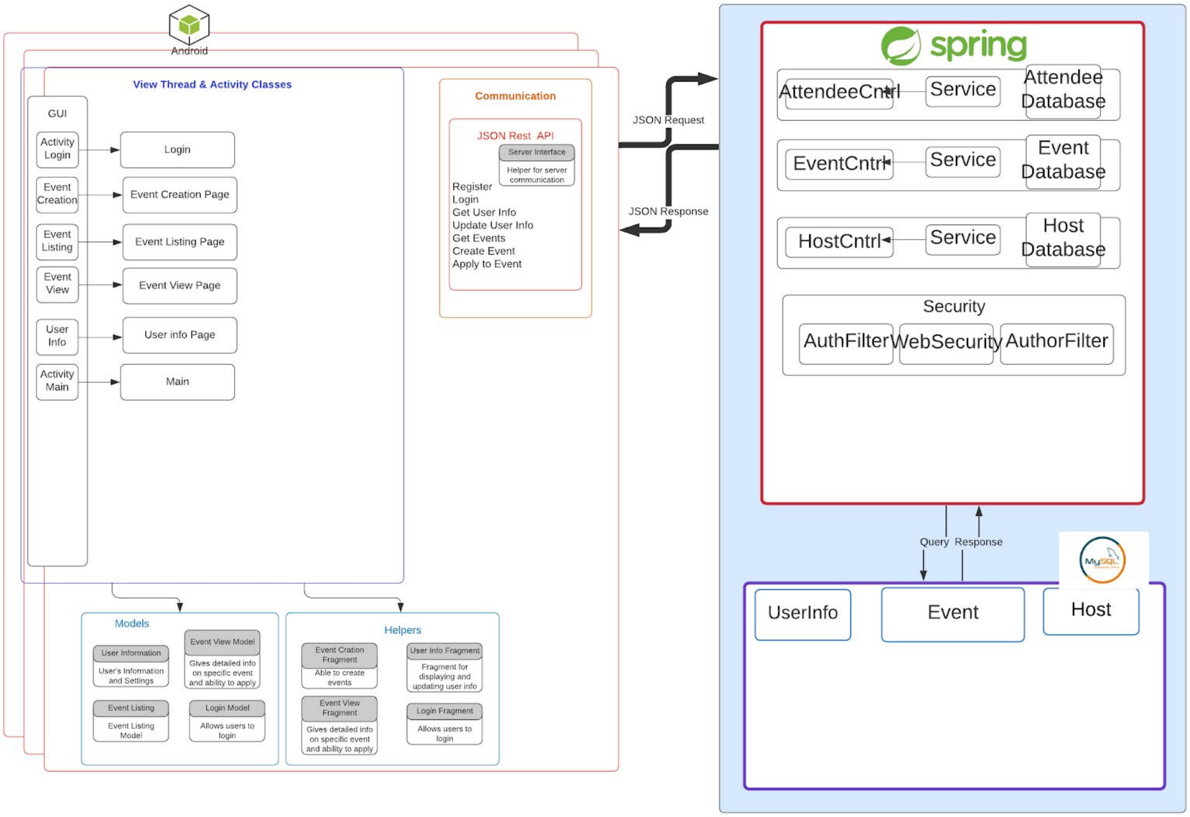

Android
View Thread & Activity Classes
GUI
Activity Login
Login
Event Creation
Event Creation Page
Event Listing
Event Listing Page
Event View
Event View Page
User Info
User info Page
Activity Main
Main
Communication
JSON Rest API
Server Interface
Helper for server communication
Register
Login
Get User Info
Update User Info
Get Events
Create Event
Apply to Event
Models
User Information
User's Information and Settings
Event View Model
Gives detailed info on specific event and ability to apply
Event Listing
Event Listing Model
Login Model
Allows users to login
Helpers
Event Cration Fragment
Able to create events
User Info Fragment
Fragment for displaying and updating user info
Event View Fragment
Gives detailed info on specific event and ability to apply
Login Fragment
Allows users to login
JSON Request
JSON Response
spring
AttendeeCntrl
Service
Attendee Database
EventCntrl
Service
Event Database
HostCntrl
Service
Host Database
Security
AuthFilter
WebSecurity
AuthorFilter
Query
Response
MySQL
UserInfo
Event
Host

Design Descriptions

Android User GUI

The android GUI is composed of various xml documents that are designs of each screen. These screens are then linked to a fragment and a model. The fragment is what executes java code based on user input and interaction. We have an xml document for each screen that depicts the objects and colors and such on screen. We also have activities that decide which phase of the application we are in the first activity that is launched is the login activity and after the user logs in the main activity is started which is a navigation bar where the user can select the intended screen.

Event Creation fragment

Allows a user to become a host by filling out each section of the event creation page and then posting the event to their area.

Event Listing Fragment

The event listing fragments displays the events within an area of the user. The events are able to be viewed in more detail by clicking on the view button and being taken to the event view fragment.

Event View Fragment

There you can see all the information for the event selected in the event listing fragment as well as a button that allows a user to apply to an event.

User Information Fragment

Displays all of the user’s in-app information and allows them to edit and update any of it.

Android Communication

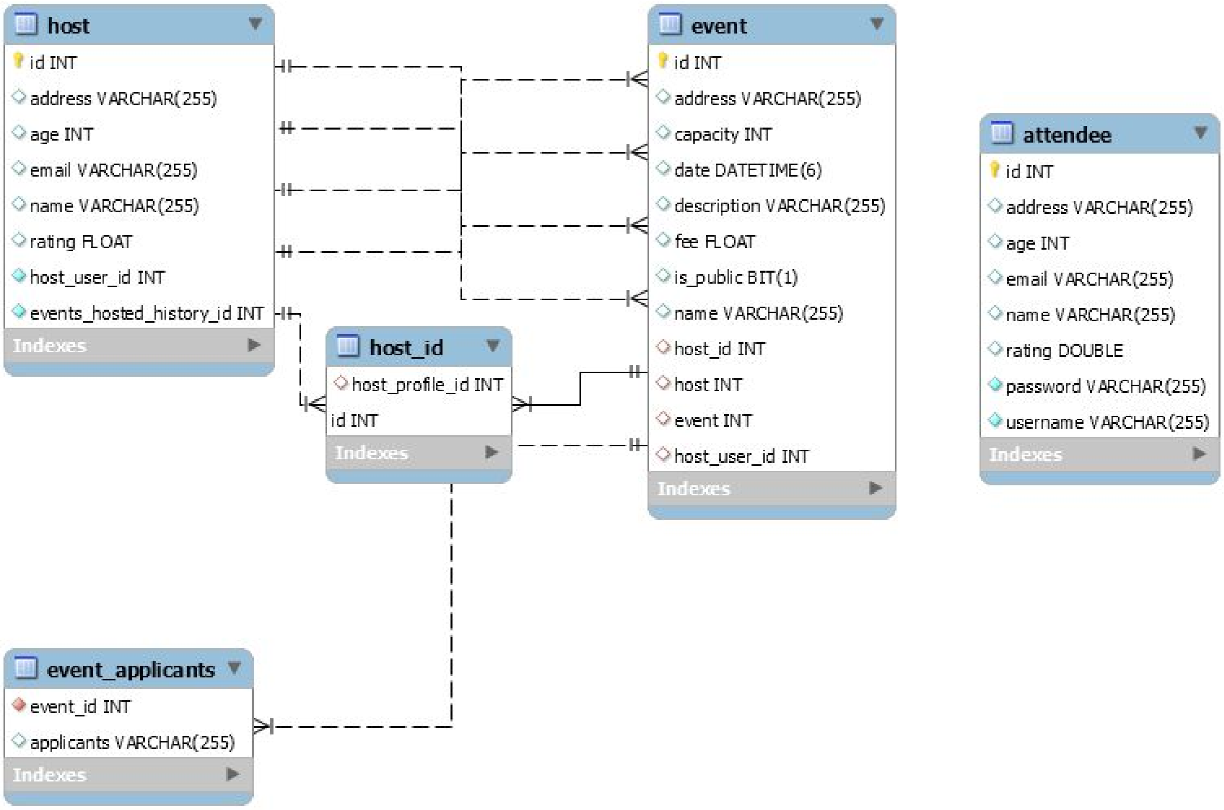
We should build an interface that houses all of our requests to the backend server. Then from each fragment we would just make a call to the implementation of this interface. And this will be where we send and receive JSON requests.

Spring Controller

We have controllers for each table in the database. These controllers expose the CRUDL operations of the database. But before being able to access these controllers one must login to the backend using their username and password and then they will receive a JWT authorization token that will allow them to access the other requests.

Security

We have an authentication filter and authorization filter that handles creating JWT tokens and confirming that JWT tokens are valid. When sending a request to the /login endpoint with username and password as JSON the authentication filter creates a JWT token that expires in 15 minutes this JWT token can be used for 15 minutes to make requests to the API. The authorization filter ensures the JWT tokens are valid. The web security class decides which endpoints don’t need authorization and which endpoints do.


host
id INT
address VARCHAR(255)
age INT
email VARCHAR(255)
name VARCHAR(255)
rating FLOAT
host_user_id INT
events_hosted_history_id INT
Indexes
event
id INT
address VARCHAR(255)
capacity INT
date DATETIME(6)
description VARCHAR(255)
fee FLOAT
is_public BIT(1)
name VARCHAR(255)
host_id INT
host INT
event INT
host_user_id INT
Indexes
attendee
id INT
address VARCHAR(255)
age INT
email VARCHAR(255)
name VARCHAR(255)
rating DOUBLE
password VARCHAR(255)
username VARCHAR(255)
Indexes
host_id
host_profile_id INT
id INT
Indexes
event_applicants
event_id INT
applicants VARCHAR(255)
Indexes