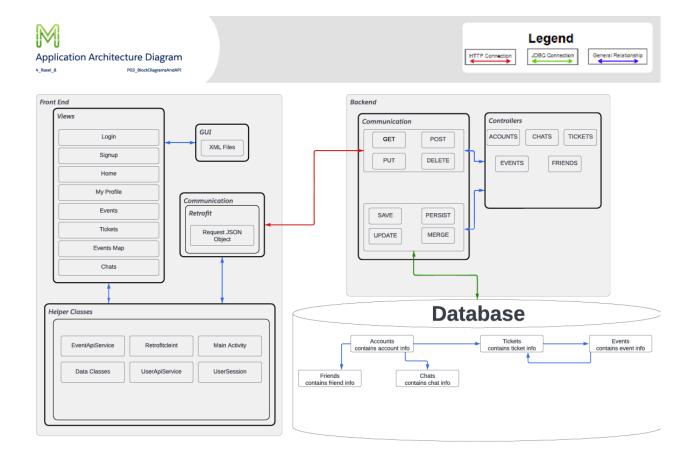
# Design Document for MongoTickets

Group 4\_Rasel\_8

Justin Moran: 25% contribution
Prerak Jain: 25% contribution

Pablo Leguizamo: 25% contribution

Anoop Boyal: 25% contribution



## Frontend (currently implemented)

Login:

Edit Text: Enter Email

Edit Text: Enter password

o Button: Login

o Button: Don't have an account? sign up

 This page has fields to enter your email and password and login to your account. It also has a button to sign up for an account in case you don't have an account.

Signup:

Edit Text: Enter Username

Edit Text: Enter E-mail

Edit Text: Enter Password

Button: Signup

- This page has fields to enter your username, email, and password which you will use to login to your account. Upon entering the fields and clicking the Signup button, your account will be created and added to the database.
- <u>Home</u>: Displays the user profile along with a graphic of the different events that you can find on the app:

TextView: emailTextView

 My Profile: Displays the account information of a given user, with the following elements:

ImageView: userImage

TextView: emailTextView

TextView: usernameTextView

TextView: idTextView

 <u>Events</u>: Displays every event in the database, with the most recent events being at the top of the list. You can search for specific events using the search bar, and can also book tickets to see all of the tickets for a given event, and can see the average ticket price of a given event with the button to the right of the book tickets button

EditText: search\_bar

TextView: eventNameText

TextView: eventDetailsText

Button: bookTicketsButton

Button: average ticket price button

• <u>Tickets</u>: Displays the tickets available for every event, showing the event name, date of event, ticket price, and lets you choose the quantity of tickets:

TextView: ticketEventsName

TextView: ticketCost

TextView: ticketDate

TextView: ticketQuantity

• Chats / Groupchats:

Button: Create Chat

Button: Chat

Edit text: Type a message

Form: select friends to add

This page pulls up all your current chats. You can create a chat by clicking the "Create chat button" which then displays a form which contains a list of your friends. You can select one or many friends to make a chat or groupchat. The created groupchat has a "chat" button which pulls up a chat window that uses websockets to communicate. You can enter a message and send it.

### • Friends:

Edit Text: search friends

Button: Add Friend

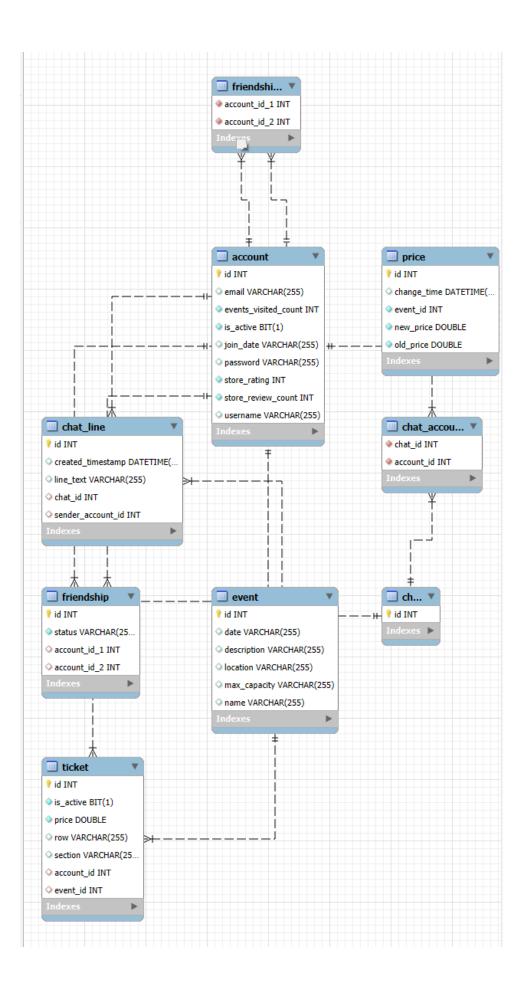
o Button: Remove Friend

 The friends page contains a search bar to search for friends and a button to add friends. On entering a valid ID and pressing enter, the friend will be added to the database and will be displayed as a card. The card will have a "Remove friend" button which will remove the friend from the database.

### Events Map:

o Button: Center on Ames

 This page shows a map using the google maps API. We intend to use this to display events close to you



#### **Backend**

#### Controllers:

- ChatController
  - Contains endpoints to retrieve chats and chat history as well as create chats and add members to chats
- AccountController
  - CRUD operations for accounts. Contains endpoints to retrieve by email and assign tickets to users
- EventController
  - o CRUD operations for events, assign tickets to events
- FriendshipController
  - o CRUD for friendships, allows for sending, accepting, rejecting friend requests
- LiveTicketController
  - Endpoints for Lice Ticket websocket feature
- TicketController
  - o CRUD operations for tickets

### **Database Tables with Relationships**

- account
  - o one to many friendships
  - one to many chat\_accounts
  - one to many tickets
- event
  - one to many tickets
- ticket
  - o many to one events
  - many to one account
- friendship
  - many to one account
- chat
  - one to many chat line
  - one to many chat account