# **Block Diagram Design Document for Rant.**

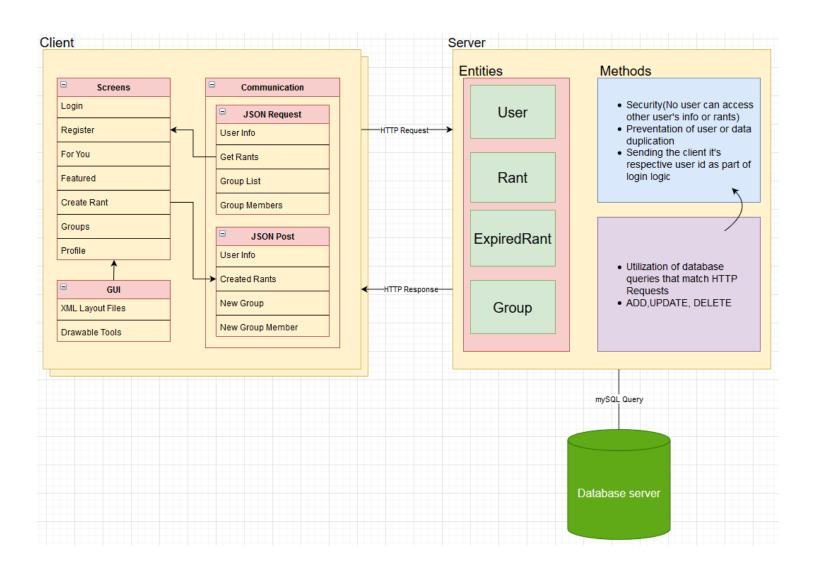
Group UG-04

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### Client

- XML Layouts with implementations from drawable tools create the visible structure of the application screens.
- Screen Activities allow for interaction on the XML Layouts, such as text fields and buttons.
- JSON Request from the server gets processed through screen activities, for example login verifies credentials entered into the text fields.
- JSON Post sends information to the database to be stored. For example, register allows new users to be created and remembered.
- Specialized functions within the Screen Activities allow for navigation between screens, verifies data entries, and gives the user a more responsive experience.

#### <u>Server</u>

- Checks the login information that the client sends and returns success/fail, the client never sees other users login information.
- Checks register information when creating an account to make sure there aren't any duplicate accounts, returns success/fail.
- Handles requests to change database information (like/dislike, update rants)
- Expired Rants holds the rants haven't seen any activity in the past hour, it's there
  to help filter rants that we don't need to show.

### <u>Database</u>

- Organizes the persistent Rant, user, and group information.
- Executes the queries that are received from Springboot server.

## **Tables and Fields**

### 1. User Table

UserID	Full name	Username/e-mail	Password	isAdmin	Rants	Groups	Liked Tags
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## 2. Group table

GroupID	Group MemberID's Name		ModeratorID (UserID)	RantID's	Group Picture (JPEG)
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### 3. Rant Table

RantID	Rant (String)	Tags	UserID	RantID	Likes	Dislikes	isProfanity	Last Modified
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## 4. Expired Rant Table

