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## Design Document for *asap*

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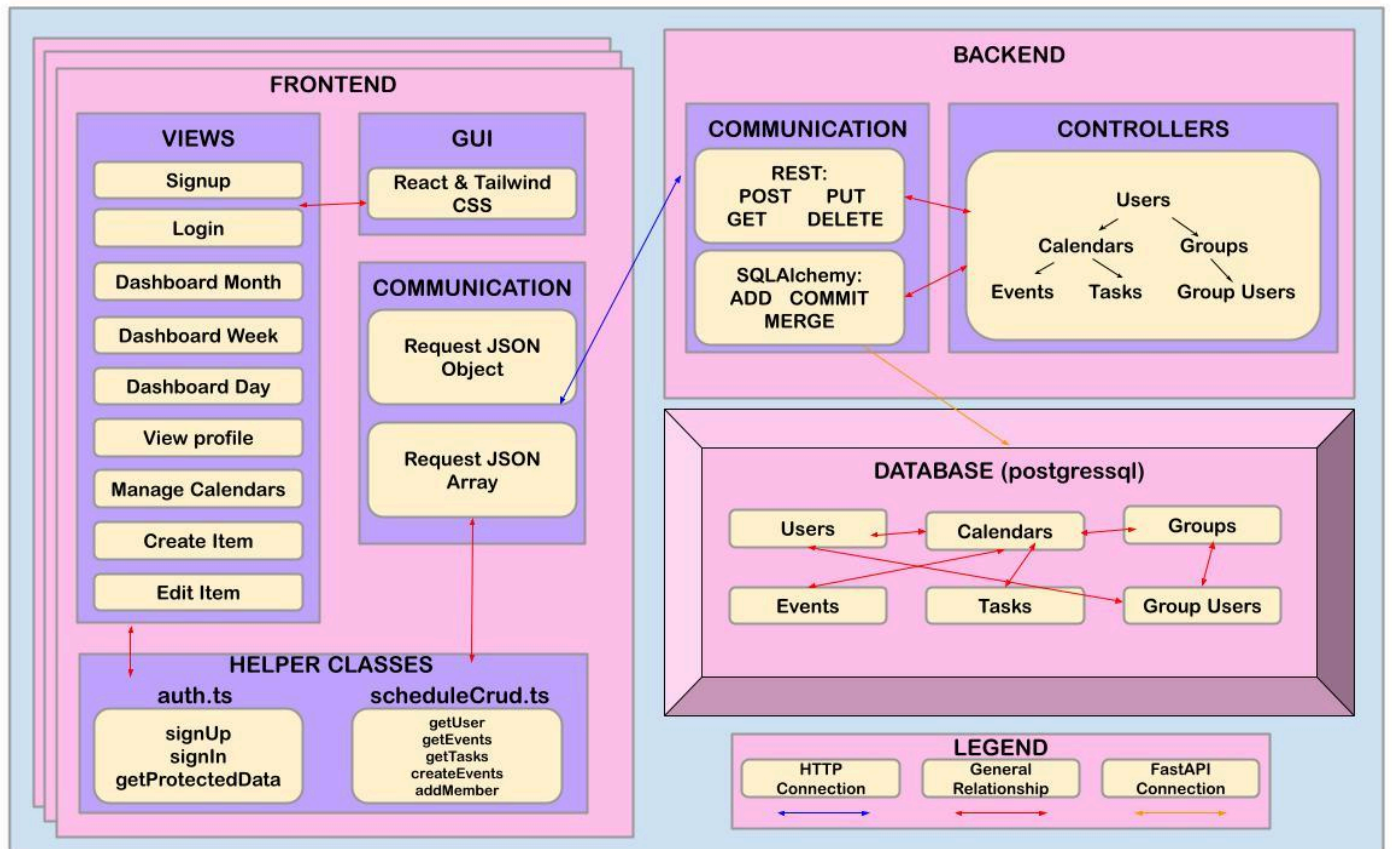
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## **Frontend** (currently implemented)

### SignUp(User)

- Sign up generates a page with the following elements:
  - Form Input: First and Last Name
  - Form Input: Password
  - Form Input: Email
  - Button: SignUp
  - Upon clicking the button 'SignUp' the values of the First and Last Name, Password, and Email are sent as a POST request to the server.

### Login (Admin, User)

- Login generates a page with the following elements:
  - Form Input: Email
  - Form Input: Password
  - Button: Login
  - Login Screen takes user input of their email and password, and if that email and password is valid, it will take the user to the dashboard, where they are logged in as that user. An authentication token is provided for the user to allow them access to features under their account.

### Create / Edit Item

- Create and edit item generates two separate pages, both including the following elements:
  - Form Input: Title
  - Form Input: Start and End Date and time
  - Form Input: Description
  - Select: Calendar
  - Button: Create item / save item
  - These two pages take the user input of the item information, and send a post request or a put request to the backend to create or edit the item.

## **Backend**

### Communication

The backend uses mappings to update the database based on information sent to the given

mappings' URLs. These include:

- Post: send information on an item to be added to the database.
- Get: request information, often with an identifier for the specific item requested from the database
- Put: send information to update a specific item in the database
- Delete: send an identifier to delete a specific item from the database

## Controllers

The controllers contain the mappings for communication between frontend and the database.

These include:

- User: Contains the above mappings to create users, which contain one-to-many relationships with the below calendars, groups, and events, and group type users.
- Calendars: This allows users to have multiple calendars with different events, and has a one-to-many relationship with events. Can be a group or not, can have group users or just the single admin user.
- Groups: Groups multiple users together to share a calendar. Has a one-to-many relationship with the groups groupUsers, which have different permissions.
- Events: Actual calendar events, bound to a specific calendar to be toggled only when that calendar is selected.
- GroupUsers: The users in a group. Contains the user information as well as permissions information.

Made using Postgres because that is what we are using (the table names are by the blue table icon):

