

Project Description: Crowdsourcing Calendar (Time Page)

In the midst of all the work and extracurricular activities, it may be hard for a student to keep track of all of his/her responsibilities. We wish to design a platform where students can schedule their time and and crowdsource their assignments/deadlines with ease.

On the website, students will have a fully customizable, crowdsourced planner. Students can view the tasks/events for “Today” ordered by priority, including what’s going to occur/be due later in the week. Additionally, students can view their tasks/tasks on a monthly calendar like page that will display the overview of the next four weeks. Their tasks/events can be added personally, but if you join classes/clubs/private groups, the tasks/events posted by other students in those groups will be also part of your planner.

As our front end framework, our team has decided to use Bootstrap with additional HTML, CSS, and Javascript components. We chose Bootstrap over Foundation for the variability in its design, allowing us to customize our website. Also, Bootstrap is the framework that our team members are more familiar with and thus are more comfortable utilizing.

Site Features:

1. User must create an account and be logged in to use this site
2. Choose to post tasks to their personal calendar or to groups
3. Daily To-Do List
 - Default display: Today’s To Do List, with options of monthly view (navigation bar)
 - Users can add personal tasks
 - Users can add tasks for groups they are part by selecting a group on the drop-down menu
 - To Do List
 - Tasks/events with name, description, due date and hour
 - Orders the event based on the due date user assigned
 - Shows the to do list for the rest of the week as well
 - Monthly
 - Displays tasks on a calendar-like page
 - Displays the tasks for the next 4 weeks
 - In both the weekly and monthly, user can mark the task complete or choose to edit the task
4. Create groups (classes/clubs)
5. Join public groups (classes/clubs) through a search bar and request for joining private groups
6. Admins for private groups will be able to accept or deny new members

If we had more time, we wish to implement:

7. Calendar filters by groups and courses
 - Integration of Google Calendar API to sync and add in holidays
8. Upvote/Downvote are available to group tasks and affects user credibility
 - Tasks made by users with a low enough credibility will be put on the bottom with a font color of gray, unless it gains enough upvotes
 - Users with high enough credibility will be able to edit grayed out task descriptions from other members
9. Filter their tasks/events by group
 - Checklist on the monthly calendar that allows user to select which group’s tasks to display
10. Group creators are automatically admins and have extra authority to delete tasks, invite members, make members admin, and remove users from groups
11. Calendar will be themed based on the time of the year (perhaps holidays)

Roles:

Clement Chan - Monthly

Joseph Lee - Groups

Yifan Wang - Project Manager

Emily Zhang - Daily

Component Map

FRONT END (client)

MACHINERY

(includes functions, utl folder, templates.)

BACK END (server)

Sign Up

Username, password, confirm password

User enters in fields. Live response for password confirmation and press button to register user.

Users Table

Checks if username exists: adds new user data or fails

Sign In

Username, password

User enters data and is validated and logged in or receives an error message.

Users Table

Validates and opens session or gives error.

Add/Delete Tasks

Users enter data regarding the task or delete w/ button. Users may choose to add tasks to their personal planners or group's planner

Content Table

Modifies table accordingly

Create Groups

User may create groups with unique course names, club names, or private groups like projects

Groups Tables, Group Table

Add new group to groups table with all information, create roster table for that group and add all users

Search Public Group

Users may search for public groups given the name and ID

Groups Table

Searches through Groups Table to look for user specified group

Join/Leave Group

Click button to leave / send request to join

Admins will be allowed to approve/deny join requests; they will also have the power to remove members.

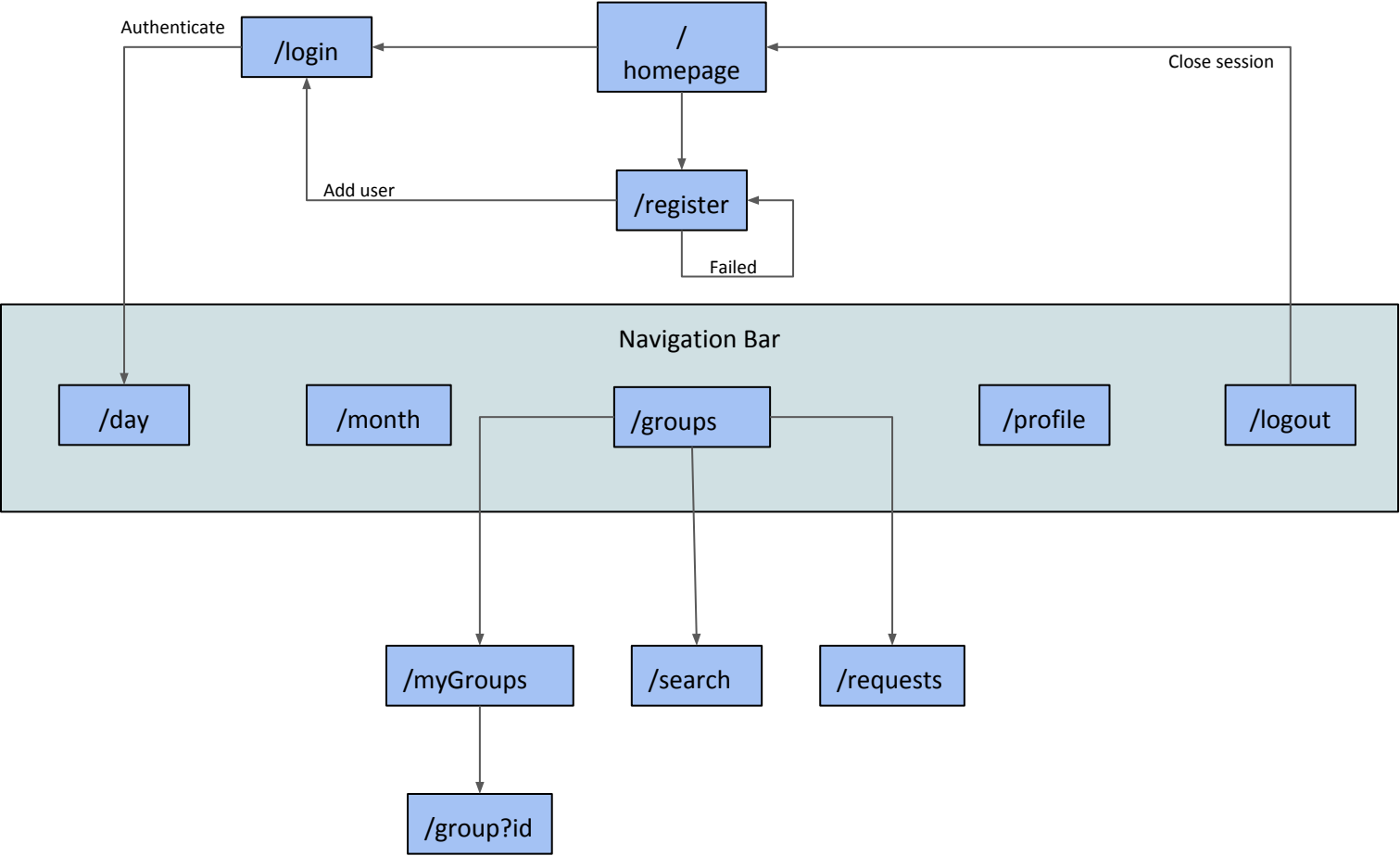
Group Table, User Table

Sign Out

Press sign out button on the navigation bar

Closes session

Site Map



Database Layout

users	
id	INTEGER
username	TEXT
password	TEXT

GroupLinks	
id	INTEGER
user_id	INTEGER
group_id	INTEGER

RequestLinks	
ids	INTEGER
request_ids	INTEGER
group_id	INTEGER

tasks	
id	INTEGER
group_id	INTEGER
user_id	INTEGER
due_date_m	INTEGER
due_date_d	INTEGER
due_date_h	INTEGER
due_date_mm	INTEGER
timestamp	DATETIME
title	TEXT
description	TEXT

Group	
id	INTEGER
name	TEXT
admin_id	INTEGER
description	TEXT
private	BOOLEAN

APIs

API	What is it used for?
Google Calendar API	This API will be used to sync and add in holidays