

super-duper-umbrella

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Project Manager™

Goal: To create a website from which one can easily manage a software project.

Feature List

Minimum Viable Product

Account Usage

- Registration
- Login/logout
- Profile editing/deletion
- Allow users to accept/decline project invite

Project Administration

- Manager (original creator) designated
- (Manager) project creation, team creation, project completion/abandonment
- (Manager) add/remove users
- Logging of all actions done to the project

Project Management

- (Manager) open/close/delete tasks, assign tasks to teams/users

Additional - Easy

Project Administration

- Manager can change manager

Project Management

- Add dependencies to tasks
- Specify feature's development branch

Google Calendar integration¹

- Task deadlines displayed on a calendar

Additional - Hard

Message Board/Chat

- Send message
- Asynchronous message update

Git integration

- Visual display of commit history in each branch

Markdown

- Implement Markdown rendering

Front end framework: Bootstrap; considered generally superior by developers

¹ <https://docs.google.com/document/d/1atMCAui86AwBSWEz8lCIJFaNkUL4V5fwVecNcnxSpP0/edit?usp=sharing>

Site Components

NAME

Welcome

Log In

Sign Up

Create and manage your projects!

Login/Sign Up

Username

Password

Submit

Profile

Profile

Create Project

Managed Projects

Joined Projects

Project 1

Project 2

Project 3

Project 1 - Info

Profile

Create Project

Info

Team

Tasks

Log

Project Name: Project 1

Description

Project 1 - Team

Profile

Create Project

Info

Users

Tasks

Log

Manager: Current User

User 1

User 2

User 3

Add/Remove

Project 1 - Edit Users

Profile

Create Project

Remove

Submit

Add

Submit

Project 1 - Tasks/Log

Profile

Create Project

Info

Users

Tasks

Log

Task/Log1

Date

Description

Task/Log 2

Date

Description

Create Project

Profile

Create Project

Project Name

Description

Create

Database Schema

Table	Contents
users	userid integer primary key, username text unique, password ² text, projects text ³ , tasks text
projects	projid integer primary key, name text unique, userid ⁴ integer, teams text ⁵ , workers ⁶ text, blurb text, description ⁷ text, log text
tasks	projid integer, taskid integer, status text, content text, dependencies ⁸ text, workers text, primary key (taskid, projid)

² MD5 hashed in final product, unhashed for development

³ Comma-separated list of projid

⁴ Of current manager

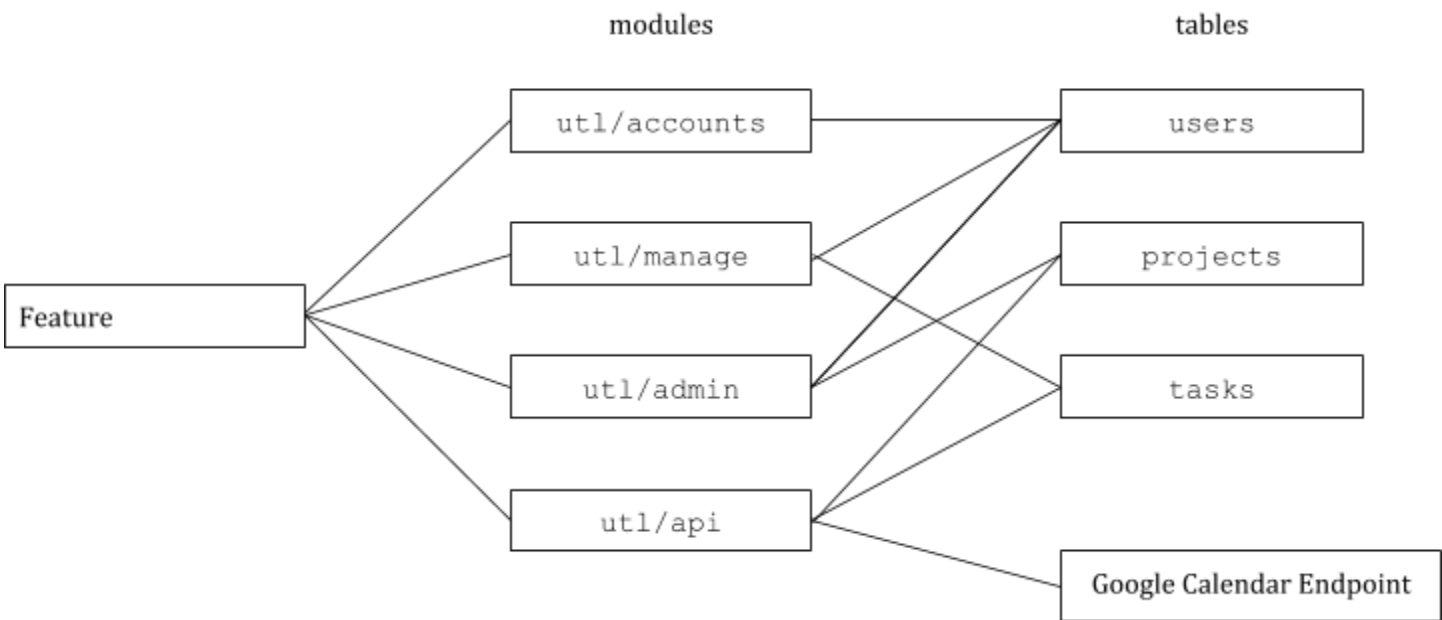
⁵ Comma-separated list of team names, with the first item as “unteamed” or “all”

⁶ Comma-separated list of (userid, teamid)

⁷ More in-depth than the blurb (Markdown in final version)

⁸ Comma-separated list of taskid

Component Map



Internal API

accounts: Account usage

admin: Project administration

manage: Project management

api: Handling API requests

Modules to be added for new major features as necessary

utl/account

```
register(username: str, password: str)
```

```
verify(username: str, password: str)
```

```
edit(userid: int, edits: dict)
```

```
list()
```

```
projects(userid: int)
```

```
tasks(userid: int)
```

utl/admin

```
create(name: str, blurb: str, description: str)
```

```
read(projid: int, cols: list)
```

```
edit(projid: int, edits: dict)
```

utl/manage

```
task(projid: int, content: str, dependencies: list)
```

```
edit(projid: int, taskid: int, edits: dict)
```

utl/api

TBD

Roles

Amanda: Backend

Elizabeth: Frontend Design

Yevgeniy: PM

Junhee: Frontend function (using internal backend API)