Schedgy Project Blueprint

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Project Abstract

Schedgy is a gamified calendar app that allows user to input tasks they have to do -- time estimates and difficulty ratings related to those tasks -- and it'll automatically input these tasks into the calendar based on when the user is free and when the user is most efficient. Each task gives the user a certain score and introduces a gamification element, which is further accentuated by the app's assistant, Schedgy -- an interactive character that gains experience points by completing tasks.

Goals

Team goals:

- 1. Follow what little design principles we have to make an app that is user friendly and visually appearing
- 2. Maintain a professional codebase and follow good practices relevant to the language/framework we're using
- 3. Get gud at Go
- 4. Show a little hustle

Will's goals:

- 1. Learn to write better tests in the spirit of creating an app that is rock solid and production ready
- 2. Learn more about web-dev fundamentals (i.e., be able to argue why one framework should be used over another)
- 3. Become comfortable at Go and React
- 4. Learn a little about what design practices make a webapp look visually appeasing

Jeremy's goals:

- 1. I want to be able to create a webapp that is production-ready.
- 2. Learn Go and Sql
- 3. Make the app scalable (e.g. easily add Redux if we want)
- 4. Write good tests

Feature Set

MVP Features

- Functioning calendar
- Feature that fills up your calendar with things that the user inputs.

Next Steps

- Reward system for completing tasks in the form of visual stimulation
 - o Have users give due dates and proposed difficulty for items on to-do list

- Gamify the calendar/scheduler
- Create a deity/wide sage that spits out what you should do
- Introduce a ML/algorithmic element that takes into account when a user is most efficient or does work at all, and then proposes tasks at that time period
- Be able to team up with friends to do common tasks
- Gmail/Outlook calendar syncing

System Architecture

Database: mySql Backend: Golang Frontend: ReactJS

Project Timeline

Weeks 1-3 • Set up project

• Create a (very) basic calendar app

Weeks 4-6 • Work on combining algorithm

Start working on Schedgy

• Work on Accounts

Weeks 7-9 • ..

Risks

- 1. Task and Calendar combining algorithm becomes very hard
- 2. Gamification aspects (e.g., animations and art) end up consuming all our time
- 3. Might hit a roadblock with Google calendar api if we end up syncing our app with that
- 4. Codebase becomes very messy and unprofessional
- 5. Code quality loses value over time, best practices won't always be implemented