

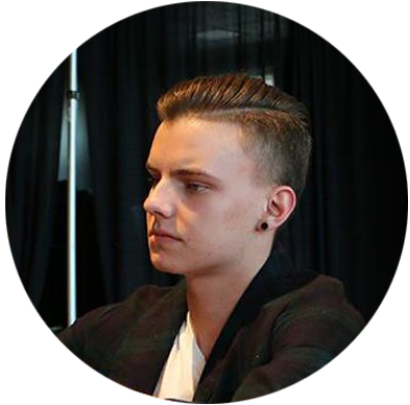


Good **morning.**

Programming - WEC 2018



Meet the Developers



Paul



Mike



Maks



Taylor

Software Engineering Students



Problem Statement

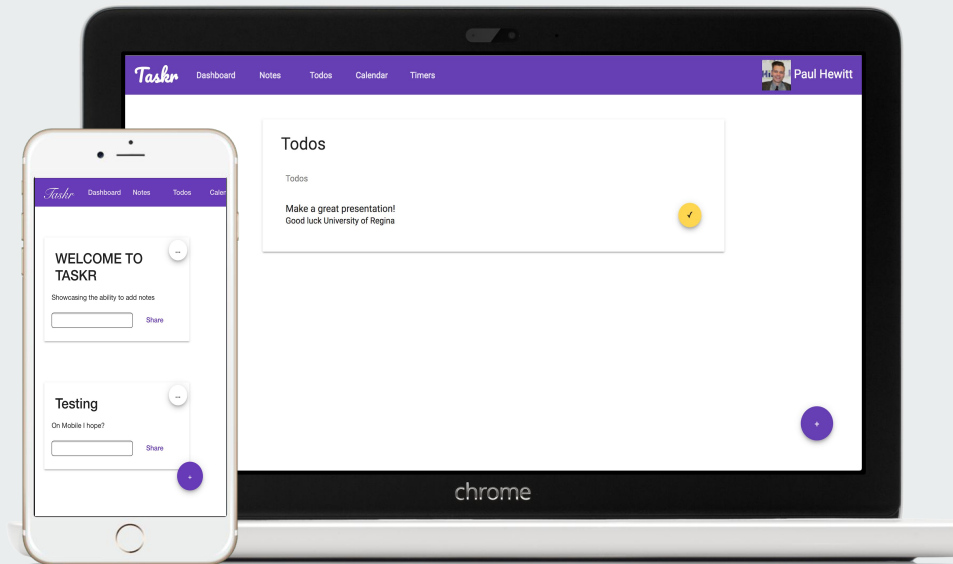
“The project today is to build an application that will help manage your time and tasks to be more efficient in getting projects done. You will be working with your teams to create a program that manages tasks, task timer, notes and calendar”

Our Solution



Taskr

Time, Tasks, To-dos





Taskr

- Focus on the five main categories
- Angular allows us to create reusable components
- Deploy a live app to cloud servers
- Google Login allows persistence, access your Taskr tools on any device
- Scalable, enterprise ready backend, with open API

Planning & Management

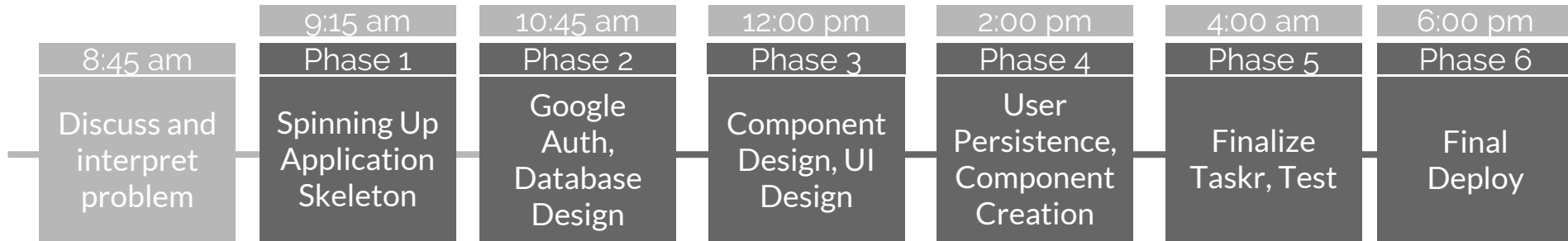


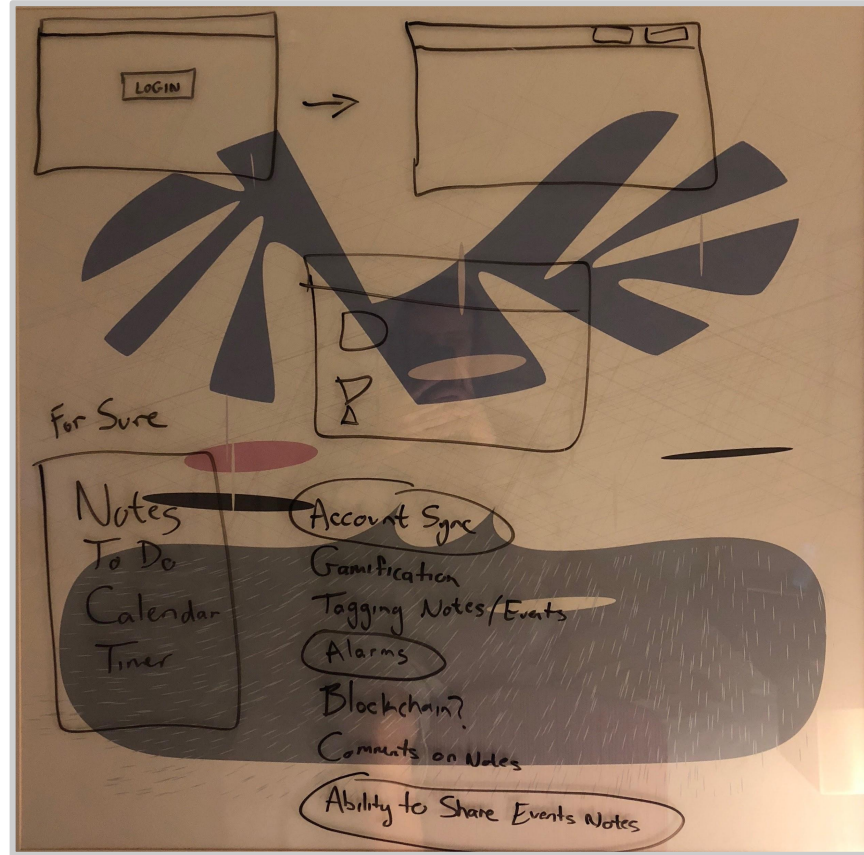
Planning & Management

- Agile development: short sprints, regular team meetings
- Used our “whiteboard” to design features before implementation
- Every developer took on a role to maximize work
- Pair programmed important features to reduce error
- Developed RESTful API web service
- Ensured scalable and enterprise ready practices were followed
- Social media login for validation/persistence
- Used GitHub for source control



Timeline





“The Whiteboard”



The Tech



Tech Stack

Enterprise Standard Frameworks

-Angular5 

-WebPack 
webpack
MODULE BUNDLER

-NodeJS 

-MongoDB 

-Bootstrap4 



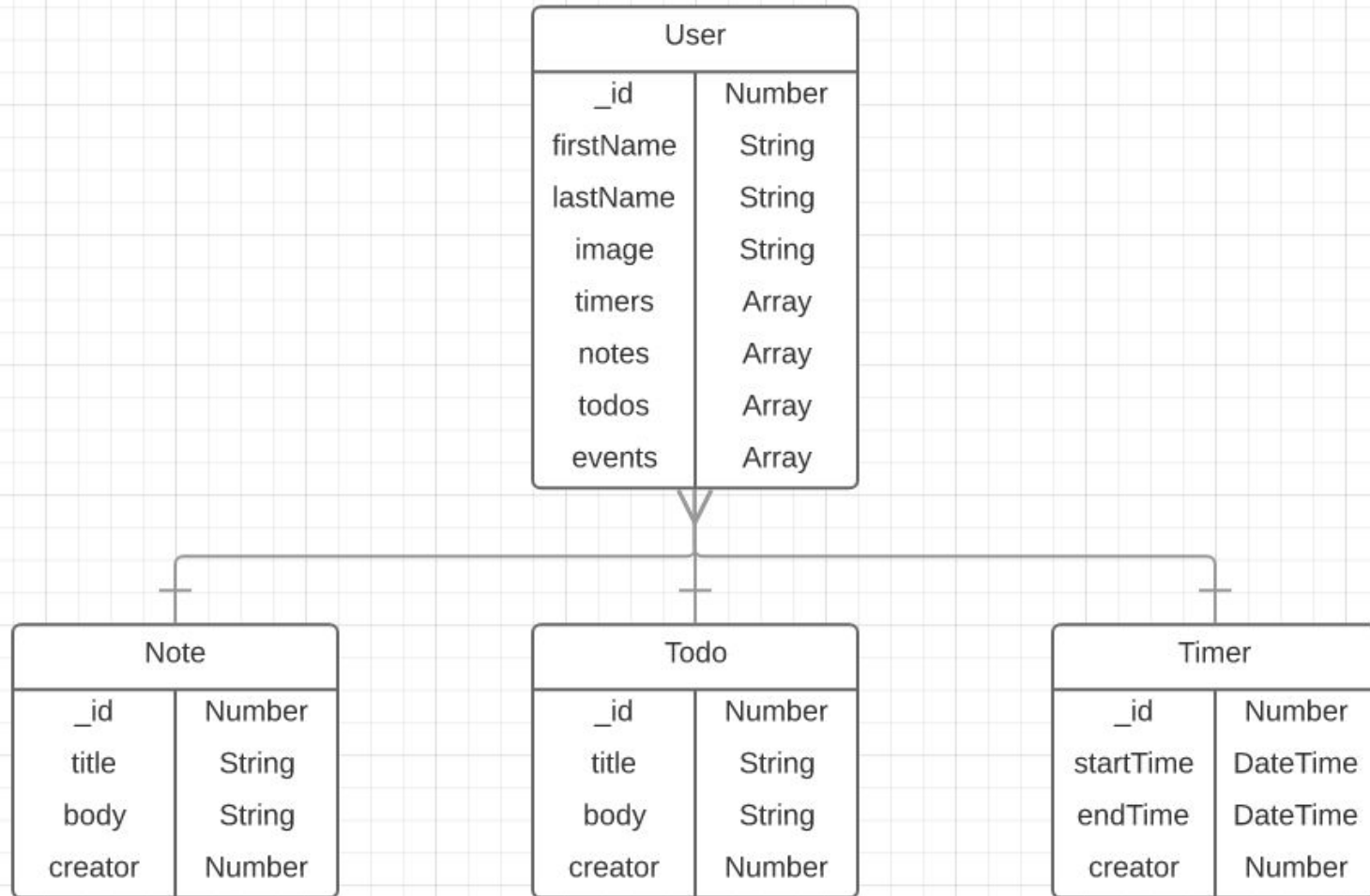
Google Integration

- Taskr utilizes Google OAuth login
- Access to Google's wide variety of integrated features
- Persist user's data across browser sessions and devices
- Login provides validation and removes necessity for account setup
- Users can login to Taskr using a familiar username/password

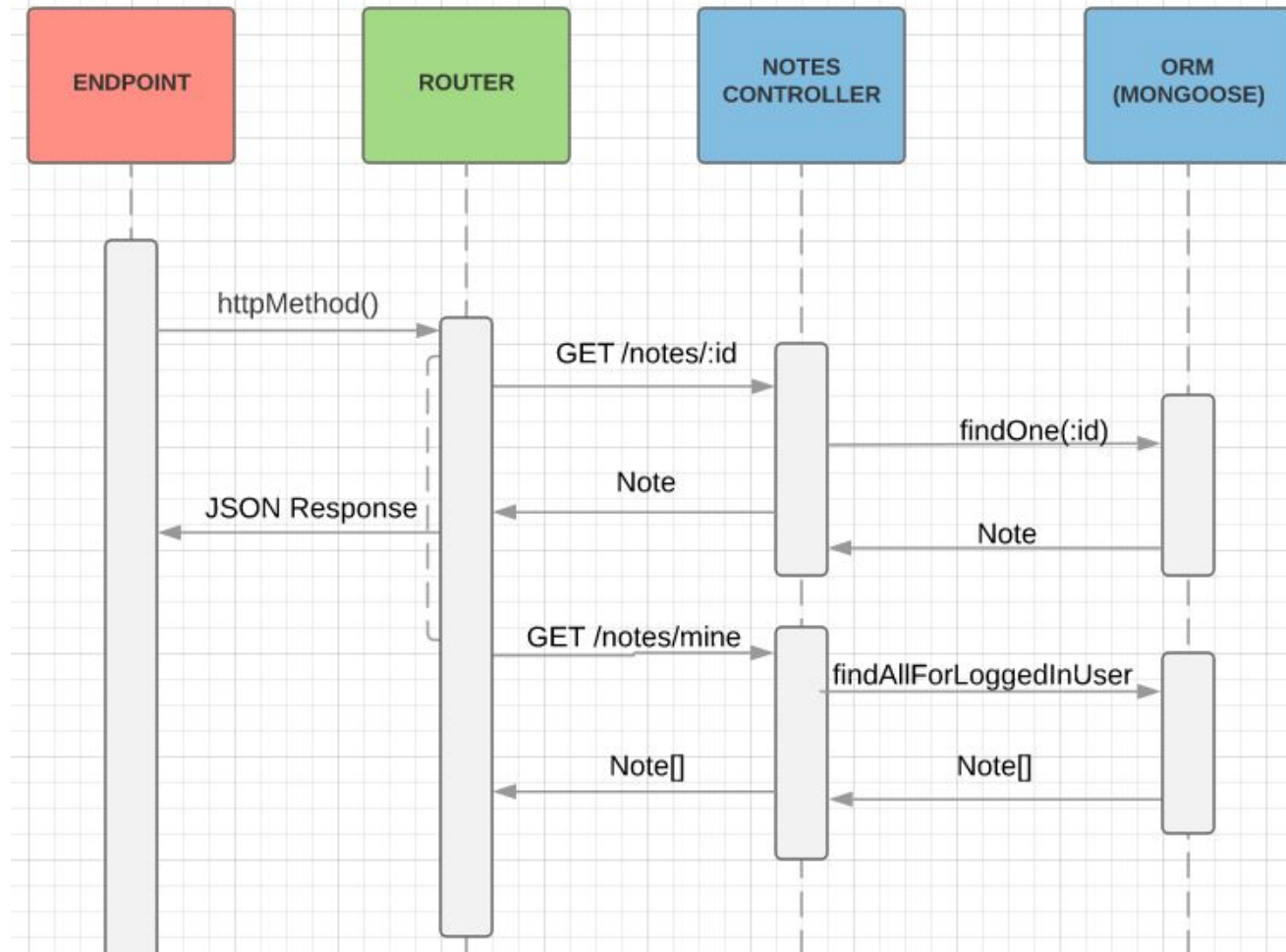
UML & Architecture



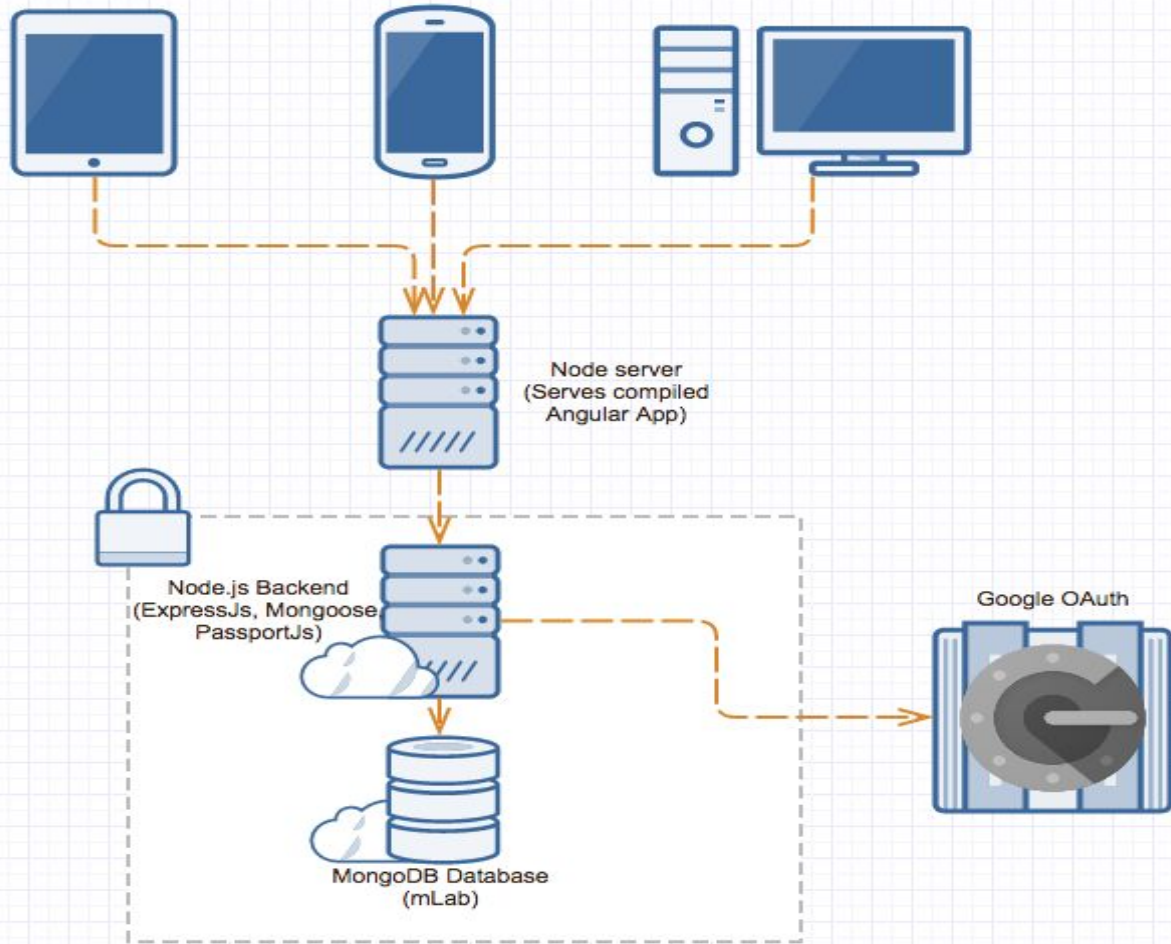
Data Model



Backend Sequence Diagram



Network Application Architecture





Features



Dashboard

- Used to display the navigation bar routes to easily access all of the pages
- Once signed in users name and photo are displayed




Welcome to Taskr.
Choose from the many features above to begin managing your time!



Notes

- Quick information widget used to write down ideas for later
- Notes can be shared with other users via user id
- Fill screen with notes in order of generation
- Allows messages to be exchanged




New Note

Title

Body

Save





To-do List

- Ability to add tasks to a dynamic list
- Mark a task finished using a checkmark and remove it

Todos

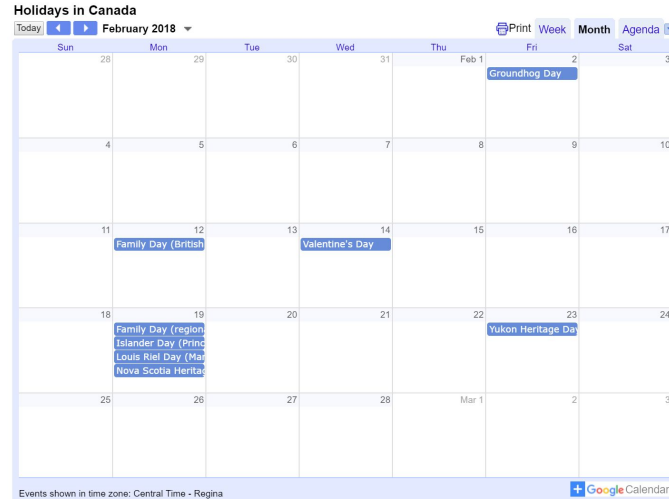
Todos

I love WEC!
Vancouver is beautiful!



Calendar

- Embedded Google Calendar component to show events for the week





Timer

- Set a countdown timer in seconds
- Allows a label and time to be set, and then counted down
- The user will receive an alert upon time completion

WEC 2018

101

Demo



Next Steps

- Storing items on a Blockchain
- Customizable dashboard
- Deeper Google Calendar integration
- Gamification
- Exporting notes, todos, etc



Trivia

Commits to Frontend: 88

Commits to Backend: 15

Lines of Code: Lots

Merge Conflicts: 1

Sandwiches Consumed: 8

Questions?

