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Dr. Johnson Due: Week 6

CMSI 543

Preliminary Design Document

Section 1.1

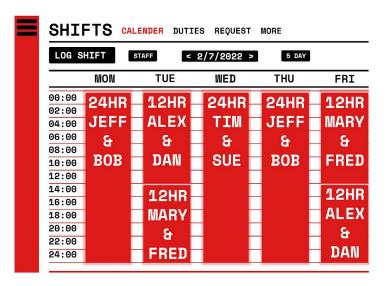
- Project description:
 - A shift scheduling app for Firefighters.
- Project management style used:
 - Scrum
- Potential users:
 - Firefighters

Section 1.2

- Preliminary project requirements; these can be formalized as an SRS, an ARD, or can be a list of user stories. Try to break the project up into a CSCI breakdown which will provide an outline of the parts of the project in a hierarchical way. Note that this requirements specification is a *LIVING* DOCUMENT which you will need to update at several stages during the development of your project.
 - As a busy and tired firefighter, I want to be able to schedule my weekly shifts very quickly so I have more time to sleep.
 - As a firefighter, I want to be able to switch shifts with my fellow firefighters without having to track them down so I can spend more time with my family.
 - As a firefighter I want an easy way to check my schedule to see when I am on shift.
 - As a busy firehouse, we need to have a way to schedule shifts online so that there is less confusion and work for management.
 - As a firehouse with numerous firefighters, we need to coordinate shift schedules so that we don't get under or over booked so we can better serve the community.

Section 1.3

Preliminary design description, including diagrams and text explanations;
this should show graphically the things you discuss in text in the previous section, but only needs to be a high level or top level diagram or two.



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Section 1.4

Preliminary development schedule; this just needs to be a basic idea of what parts will be developed in what order, and a SWAG at what will be in each iteration. Since you don't know all the details at this point, the focus should be on the functional decomposition of the project and a first shot at what might be done together as part of a single MVP. Focus on the parts you have specified in SecTion 1.2. <u>DO NOT SIMPLY LIST THESE</u>

DELIVERABLES AND THEIR DATES!

- Sprint 1 (finished):
 - Build react app skeleton code
- Sprint 2 (in progress):
 - Building a toolbar with the different pages (links to different, blank pages)
 - A calendar (not interactive yet)
- Sprint 3 (2/23):
 - Toolbar pages link to other pages
 - A calendar (users can pick shifts)
- Sprint 4 (3/16):
 - Implement Firebase
 - Rough option for users to request shift changes/switches
- Sprint 5 (3/30):
 - Integrating graphical design
 - Personal accounts for users
- Sprint 6 (4/13)
 - Start working on final pitch/presentation
 - Polish graphics/clean up code

• Section 1.5

- Development tools, which is just a listing of what software you'll need to use to develop your project; for example, an editor, a UI tool, perhaps a compiler, or a linker, or a browser used to test your web pages, an Agile project tool, &c.
 - React
 - HTML/CSS/JS
 - VSCode
 - Chrome
 - Bootstrap/React-Bootstrap
 - Material UI
 - Jira