Capstone Project Proposal

## Project Description:

What do nearly all workplaces that employ part-time workers have in common? A work schedule that can change from week to week. Many companies rely on manually managing employee availability and creating work schedules through excel or something similar. We aim to solve this problem; making the creation of schedules much easier while simultaneously handling the management of employee availability.

## Main Goals:

We would like to have user accounts for employers and employees. Initially employers only add company information while employees add personal information. This reduces the burden on the employer of having to add information for all their employees.

Employees

* Add and edit availability
* Inquire their employer to request for time off
* View upcoming schedules
* Request switching shifts

Employers

* Manage employee data
  + Search / view
  + Add / remove association with employer
  + Add / remove time off
  + Edit payrate
* Schedules
  + Create / edit / delete
  + Send to employees
* Approve or deny requests for time off
* Approve switching shifts

## Technologies:

Either node.js or ASP.NET Core in conjunction with either mongodb, MySQL or MSSQL. We are leaning towards ASP.NET Core with a MySQL database.

## Stretch Goals:

We would like the app to have a mobile version, making it more accessible to all users. We would like employees to be able to communicate with each other through the app so they can switch shifts or have shifts covered. We would also like to create an automated schedule system. This would use employee availability data and possibly rotation parameters to generate schedules automatically. We would like a push notification system where employers can notify all employees of company information