

meeting 2020.02.19

requirements

- take in professor schedules
 - exceptions
 - sequences (Prof X must teach after Prof Y)
 - incompat (Prof X cannot teach during Prof Y)
 - locations
 - times
- generate potential schedules

technical stack

■ Python (Back-end)

- Flask
- SQLALCHEMY
- WTForms
- Bootstrap / Pure.css
- Jinja

■ Digital Ocean (hosting)

- Linux
- Nginx
- gunicorn
- supervisor

UI Design

browser

DASHBOARD	<MENU>
<u>Scheduler</u>	
Enter Professor Profile/Schedule	<input type="button" value="ADD"/>

Click ADD

DASHBOARD

< MENU >

Scheduler

Enter Professor Profile/Schedule

ADD

EXCEPTION

TIME

DATE

ADD

SEQUENCE

NAME

ORDER

ADD

INCOMPAT

. . . - - - - -

LOCATION

. - - - - - - - -

SUBMIT

DASHBOARD

<MENU>

Scheduler

PROFESSORS

- Prof. X <link to profile>
-
-

Enter Professor Profile/Schedule

ADD

SUBMIT

→ yields schedule/list of conflicts

Back-end

■ Establish dev environment

- python, ~3.6

- python version manager

- python virtual env manager

- pip

- docker

- replication/testing

- Linux dev env (Ubuntu)

- Nginx

- PostgreSQL

■ Basic Flask Env/App

- Hello World
- Basic API Routes
 - POST/GET Requests on index, '/'
- integrating with Jinja templates
 - basic hello world example

■ Schedule Representation

- types of "exceptions"
 - time
 - interval
 - day
 - preferences
 - sequence

} Some type of Class/
Data representation

- Concept of professors
- Concept of classrooms/Courses

■ Schedule Resolver

- how to reconcile exceptions?

■ Data permanence/Storage

- data serialization (Pickle lib)
- plain text
- SQLite (Postgres later)

Contract

■ Figure out real constraints

■ Core deliverables

- scheduler
- web app

■ Risks

- group project
- time limits
- knowledge gap
- nature of problem