Fullstack Development

Self Evaluation

Roadmap

https://roadmap.sh/full-stack

Form

https://forms.office.com/r/ZGzaZM9yxm

Preflight Project

Objective

Develope "end-user-ready" full-Stack application in 2 weeks.

- Ideas

Why?

- Give students experience of the overview of the full-stack technology.
    - Before going into more details later.
- Want smaller groups ➡ better learning experience.
- Give students more chance to iterate ➡ better coding decision in the `project`.

Requirement

- Full stack technology
  - Anything that you can run on local development environment.
  - No cloud service (e.g. Firebase)
  - If using JavaScript frameworks, use TypeScript.
- Automated Testing
  - API testing
  - UI testing

Requirement (cont)

- Deployment
  - Deploy on CPS virtual machine (Ubuntu).
  - No Netlify, Vercel, Railway
- Source code repository
  - GitHub
  - GitLab

Deliverables

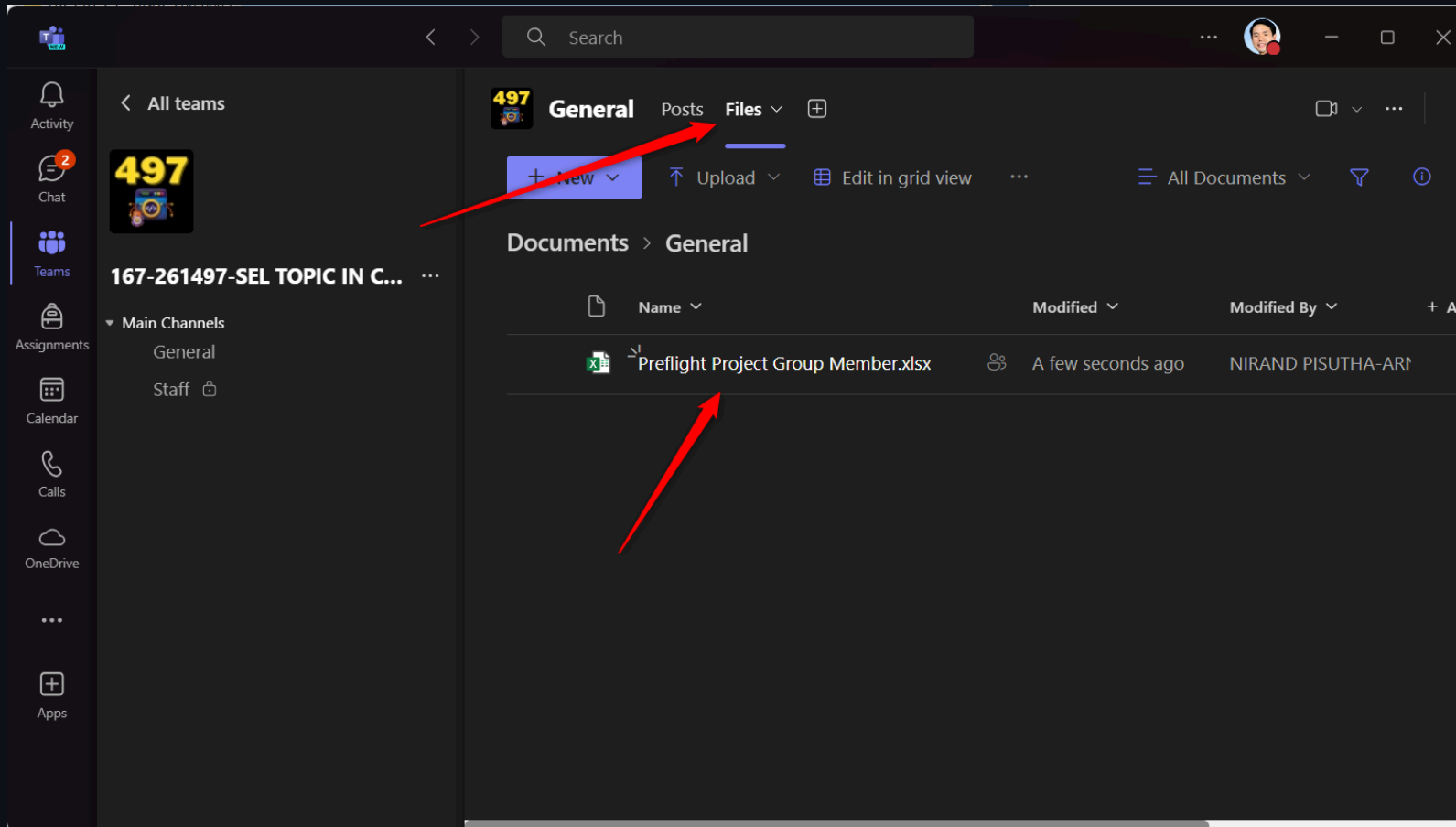- Application (URL)
- VDO (TBA)

Grade

- Part of the project

Extra credit

- Nice-looking UI design

- More complex data relationship (e.g. join tables)

- Includes Authentication / Authorization

- Use different stacks than the class example.

Timeline

Date	Day	Topics
21 Jun	Fri	Modern Javascript / Typescript
25 Jun	Tue	DB and Backend
28 Jun	Fri	Frontend and CSS Library
02 Jul	Tue	Testing
05 Jul	Fri	Deployment

Group assignment

Tools

- VSCode
  - Prettier
  - ESLint, ES7
  - Quokka.js
- Docker Desktop
- Node.js
- Git

Tools

- Database client
  - Dbeaber
- API Testing tool
  - Insomnia
  - Postman
  - Thunder client (VSCode extension)