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
 - Ul testing

Requirement (cont)

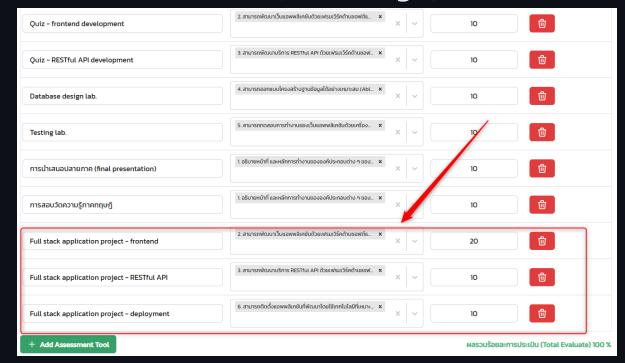
- Deployment
 - Deploy on CPS virtual machine (Ubuntu).
 - No Netlify, Vercel, Railway
- Source code repository
 - GitHub
 - GitLab

Deliverables

- Application (URL)
- VDO (TBA)

Grade

- 10%
- Score distribution (see image)



Extra credit

- Nice-looking UI design
- More complex data relationship (e.g. join tables)
- Includes Authentication / Authorization
- Use different stacks than the class example.

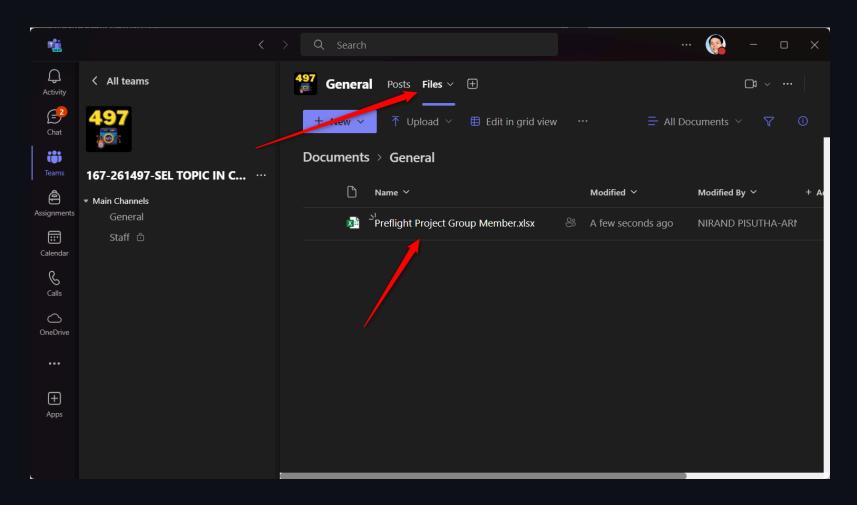
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Timeline

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

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Group assignment



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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)