Lecture 1a Introduction to WPR course

What is this course about?

General

- HTTP
- Client-server architecture
- Form Handling
- APIs

Front-end

- HTML
- CSS
- JavaScript
- ReactJS
- Create React App Library

Back-end

- Node.js
 - ✓ Express.js
 - ✓ File I/O
 - ✓ EJS
 - ✓ Handlebars
- Databases
 - ✓ SQL (MySQL)
 - ✓ NoSQL (MongoDB)

Study questions

- How to create static web pages?
- How to create good-looking static web pages?
- How to create interactive web pages?
- How to create server-rendered website using Node.js and a template engine such as EJS/Handlebars?
- How to create a restful API (back-end) using Node.js?
- How to keep website's data in a SQL/NoSQL database?
- How to create a dynamic website's front-end which connects to the back-end using ReactJS?

Course Resources

- Lecture slides
- Exercises in tutorials
- Progress quizzes
- Recommended online tutorials
- Chosen online readings
- Lecturer and tutor support

Assessments

Attendance 10%

Bonuses for in-class performance

Assignment 15%

 DB-driven website with server-side rendering & template engine

Mid-term test 15%

Closed-book MCQ quiz

Final Exam 60%

Paper-based exam, covers all topics

How to study?

- Pay attention in lecture classes
 - Lecturer often shares information outside of lecture slides
- Self-study from external sources is important
 - Expand your knowledge about the programming languages, frameworks... beyond what's introduced in the lectures
 - There are countless of (free) online resources
- Review lecture slides before tutorial
- Doing tutorial exercises beforehand isn't recommended
 - Use tutorial time and interact with tutor effectively

Is it necessary to study now that Als are so powerful?

Yes

- You need to learn even more so that you can:
 - Contribute what Als cannot do to your software products
 - Review Al's works & Fix Al's mistakes
- Als do help students learn faster
- Also, Als can make students become reliant on them and less creative