Frontend Development - Course Overview

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In this presentation

- Today's class
- Class structure and assessment
- Main topics covered
- Class format
- Hackathon!
- Tooling

Today's class

- Class overview
- JS highlights and toolings
- TypeScript

Class Structure / Assessments

- Weeks 1 - 4, React/TS
  - Final *written exam* covering theoretical topics.
  - Theory topics will come from at home reading assignments and in-class reading assignments.
  - 50% of grade
- Weeks 5 - 7 React Native
  - Final React Native *project*.
  - 50% of grade
- To pass the course, both assessments must receive a minimum passing grade of 55.

Main Topics Covered

- Frontend development using React, TypeScript, React Native
- Technologies used
  - React / React Native
  - TypeScript
  - Next.js
  - TanStack Query
  - Redux
  - Node
  - NPM
  - Vite

Class format

- At home:
  - Reading assignments to introduce theory topics
  - Hackathon project work (reinforce learning and get some practice before starting project)
- In class:
  - Reinforce theory (lecture)
  - Project work, discussion, feedback

Hackathon

- Goals
  - Find a small project that motivates you
  - Practice and implement the theory topics we are covering in class
  - Prepare for implementation portion of course
  - GitHub portfolio, resume material
  - Cash prizes, fame, etc

Tooling

- Node (current version)

- NPM (current version)

- VS Code
  - TS/React/Next Extension

  - Prettier extension

- React Developer Tools (Chrome extension)
  - We recommend standardizing on Chrome as a development browser