CMPT 353

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Web Programming

- Basic Web Principles
  - Client Server (Request-Response)
  - Uniform interface
    - naming (URL, URI)
    - verbs/methods
      - Clear read/write semantic
      - CRUD
        - POST, GET, PUT/PATCH, DELETE
  - Stateless Communication
  - …

Full Stack

- Not Web Design

- Full Stack software development?
  - Client Software
    - Front End
  - Server Software
    - Back End

Front End

- HTML
- CSS
- JavaScript
- WebAssembly
- Frameworks
- …

Back End

- Node.js
- Server Patterns
- N Tier Architectures
- SQL
- NoSQL
- Cloud
- Frameworks
- …

Goal

- Understand that Web Technologies are evolving
    - Constant change

- Provide introduction into
    - Best practices
    - Core principles
    - Development approaches
    - Hands-on experience with a few platforms/tools
    - …

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Grade

- Assignments = 20% (5 Assignments)
- Project   = 30%
- Final   = 50%

Assignments

- 5 Assignments
- Train core concepts/techniques presented in class
- No extensions

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Project

- Single Person Project
- Announced after the 6th Week
- Time = 1 month
- Submission
  - Code
  - Presentation Slides
  - Video

Final

- 3 hours
- Closed book
- All material covered in class

Will talk more about this around last week of class

Material

- Development Environment -> Docker & Docker-Compose
- Servers, HTTP, Node.JS
- JavaScript
- Client-Server Interaction
- Client-Side HTML,CSS, DOM
- SQL DB
- NoSQL DB
- Frameworks - React
- Cloud Platform
- Servers
- …

Materials?

- Slides online
  - Canvas
- Links to online resources
  - E.g. Docker
- Free online books
  - Node.js
  - HTML
  - Database
  - …
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Tutorials

- No Tutorials this week

- Start will be announced

Questions