Node Modules and Building Node Web Server Week: Todo List

1. Master - Node modules and building Node web server

By the end of this week, you should **MASTER** these topics:
- ➔ **Introduction to Node modules**
  - ◆ Modules and modular structure in Node
  - ◆ Packages
  - ◆ Problems of global namespace collision and how modular structure in Node helps to avoid this problem
  - ◆ commonJS module standard vs ES6 module standard
  - ◆ Core and contributed Node modules
  - ◆ Creating and using Node modules
- ➔ **Building Node web servers (http & Express)**
  - ◆ Synchronous vs asynchronous JavaScript
  - ◆ Ways to write asynchronous code in JavaScript (Callbacks, Promises and Async & Await)
  - ◆ Building a basic HTTP web server and serving text messages and static files using HTTP module
  - ◆ Express and why it is better than HTTP to handle HTTP requests
  - ◆ Handling HTTP requests using Express
  - ◆ Serving static files using Express

By the end of last week, you should have already watched the class videos on "**Introduction to Node modules**" and "**Building web server (http & Express)**". You should have also listed out all of your questions

1.1. Start by working on Node modules and Node server practice questions (3 hrs)
- ● Instructions on how to complete the questions is found here:
  - ○ [Link to homework](#)
- ● Try the homework on your own first and discuss it with your groupmates
- ● List out the parts you don't understand and ask your groupmates when you meet in groups

1.2. **Complete the "Node Modules" and "Node Servers" checklists (1 hr)**
- Node Modules checklist
  - https://www.evangadi.com/checklist/node-modules
- Node Servers
  - https://www.evangadi.com/checklist/web-servers
- Mark the ones you understood as complete, and list out the parts you didn't understand for further discussion

1.3. **Before you meet your instructors in the group discussions**
- Meet with your groupmates before the group sessions with Evangadi instructors. Please take the lead in sending out Zoom links and inviting everyone for discussion
- Try to discuss the questions you have with your groupmates

1.4. **Attend the 2 group meeting sessions with your instructors (4 hrs)**
- Discuss the remaining questions you have prepared
- Turn your camera on, share your screen and participate

2. Prepare for week 3 - Working with Databases (MySql Part I) and Working with Databases (MySql Part II)

- **Watch the " Working with Databases (MySql Part I)" videos (4hrs).**
  - DO NOT just watch the video. Make sure you are pausing the video and practicing on your computer
  - Read the lecture note side by side
  - Prepare your questions

- **Watch the "Working with Databases (MySql Part II)" videos (3hrs)**
  - DO NOT just watch the video. Make sure you are pausing the video and practicing on your computer
  - Read the lecture note side by side
  - Prepare your questions

- **Attend the "Working with Databases (MySql Part I)" and "Working with Databases (MySql Part II) live lectures (4hrs)"**
  - Read the lecture note side by side
  - Prepare to ask your questions