Bash Script, Git and Introduction to Node.js Week: Todo List

1. Master - Bash script and Git

By the end of this week, you should **MASTER** these topics:
- ➔ **Terminal, Bash script and Git**
  - ◆ Bash script and the most common Bash commands
  - ◆ Git and GitHub
  - ◆ The most common Git commands
  - ◆ Creating Git repositories
  - ◆ What is meant by cloning, tracking, forking, merging, committing, pushing and sending a pull request in Git
- ➔ **Introduction to Node.js**
  - ◆ How a website works
    - ● Understanding a webpage, the browser, browser's JavaScript engines
    - ● Static vs dynamic webpage
    - ● Requesting and receiving data from a remote computer
    - ● Understanding the TCP/IP Networking Layers
    - ● Web servers: meaning and how they work
  - ◆ Problems related to handling concurrent requests problem
  - ◆ Threading, blocking/synchronous architecture
  - ◆ Node.js as a solution to the problem of blocking/synchronous architecture
  - ◆ Non-blocking or Asynchronous Architecture
  - ◆ Installing Node.js and running scripts on Node
  - ◆ What NPM does and how to use it

By the end of last week, you should have already watched the class videos on "**Introduction to terminal, Bash Script and Git**" and " **Introduction to Node.js**". You should have also listed out all of your questions.

1.1. Start by working on Bash and Git practice questions (3 hrs)
- ● Instructions on how to complete the questions is found here:
  - ○ [Link to your 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 "Bash and Git" and "Node.js" checklists (1 hr)
- Bash and Git checklist
  - https://www.evangadi.com/checklist/git-bash
- Introduction to Node Checklist
  - https://www.evangadi.com/checklist/node-intro
- 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 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 2 - Introduction to Node modules and Building web server (http & Express)

2.1. Watch the " Introduction to Node modules" 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 for the lecture session

2.2. Watch the Building web server (http & Express)" videos (4hrs 30min)
- 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 for the lecture session

2.3. Attend the "Introduction to Node modules" and "Building web server (http & Express)" live lectures (4hrs).
- Read the lecture note side by side
- Prepare to ask your questions