

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
 - [Link to Bash & Git Checklist](#)
- Introduction to Node Checklist
 - [Link to Introduction to Node Checklist](#)
- 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 Next Week - 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