



GIT AND NODE.JS

LESSON 2 – MR. MINH SANG



GIT

SOME BASIC CONCEPTS

- Version Control: software tool(s) that enable the management of changes to source code
 - Maintaining version history
- Several version control tools: CVS, SVN, Git etc.
- Distributed version control system
- Developed by Linus Torvalds for managing Linux kernel development
- Widely adopted now by several projects
 - The Node ecosystem thrives on it



EXERCISES

CONTENTS

- Setting up Git on your machine
- Using Git
- Using online Git repositories



NODE.JS AND NPM

WHAT IS NODE.JS?

- JavaScript runtime built on Chrome V8 JavaScript Engine
- Uses an event-driven, non-blocking I/O model
 - Makes it lightweight and efficient
- At this moment, we will only talk about node's use as a JavaScript runtime
 - More on server-side use in a later course

NODE.JS USE CASES

- Utilities written in JavaScript for web development:
- Bower, Grunt, Gulp, Yeoman etc.
- Server-side Development
- Web server, Business logic, Database access

NODE PACKAGE MANAGER

- Node package manager (NPM): manages ecosystem of node modules / packages
- A package contains:
- JS files
- package.json (manifest)



EXERCISES

CONTENTS



Setting up Node.js and NPM

SUMMARY

- Understand what is meant by full stack in the context of web development
- Distinguish between front-end, back-end and full stack web development
- Set up a Git repository and perform basic Git operations
- Set up and use online Git repositories
- Use Node-based modules to perform basic operations.