



INTRODUCTION

LESSON 1 – MR. MINH SANG



COURSE INTRODUCTION

FRONT-END WEB DEVELOPMENT WITH REACT

- ReactJs basic
- Frontent UI (Material UI)
- Redux
- Communicate API
- Optional: different way to build reactjs web instead of javascript

EVALUATION STRATEGY

- **Must attend more than 80% of contact hours (if not, not allow to take exam).**
- **Evaluating**
 - 02 Progress Tests (PT: 15%)
 - 08 Labs (L: 20%)
 - 01 Assignment (AS: 15%)
 - 01 Practical Exam (PE: 20%)
 - (Practical exam pass only when the score of PE ≥ 4)
 - Final Exam (FE: 30%)
 - Final result = $15\%(PT) + 20\%(L) + 15\%(AS) + 20\%(PE) + 30\%(FE)$
- **Pass:**
 - Every on-going assessment component > 0
 - Final Exam score ≥ 4 and
 - Final result ≥ 5

MODULE I: REACTJS BASIC

- Install React app
- React Components

Lab 1

- React Hook

Lab 2

- React Router, Single Page Applications

Lab 3

MODULE 2: FRONTEND UI

- Install/ configure Material UI
- Material Components

Lab 4

- CSS Preprocessor

Lab 5

MODULE 3: REDUX

- Redux
- React form

Lab 6

MODULE 4: COMMUNICATE API

- Client-Server Communication
- Brief Representational State Transfer (REST)
- FETCH & React Animation

Lab 7

MODULE 5: TYPESCRIPT

- Configure
- Function

Lab 8



FULL STACK WEB DEVELOPMENT AND SETUP DEVELOPMENT ENVIRONMENT

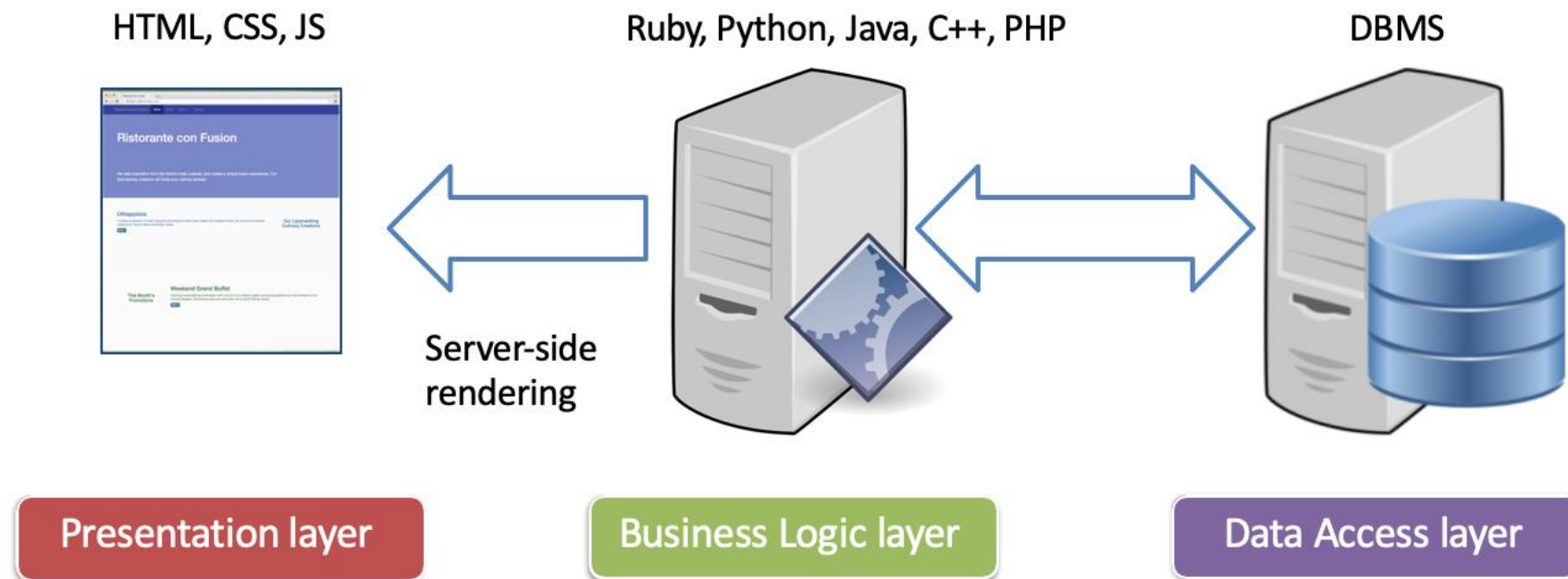
FULL STACK WEB DEVELOPMENT AND SETUP DEVELOPMENT ENVIRONMENT

- 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.

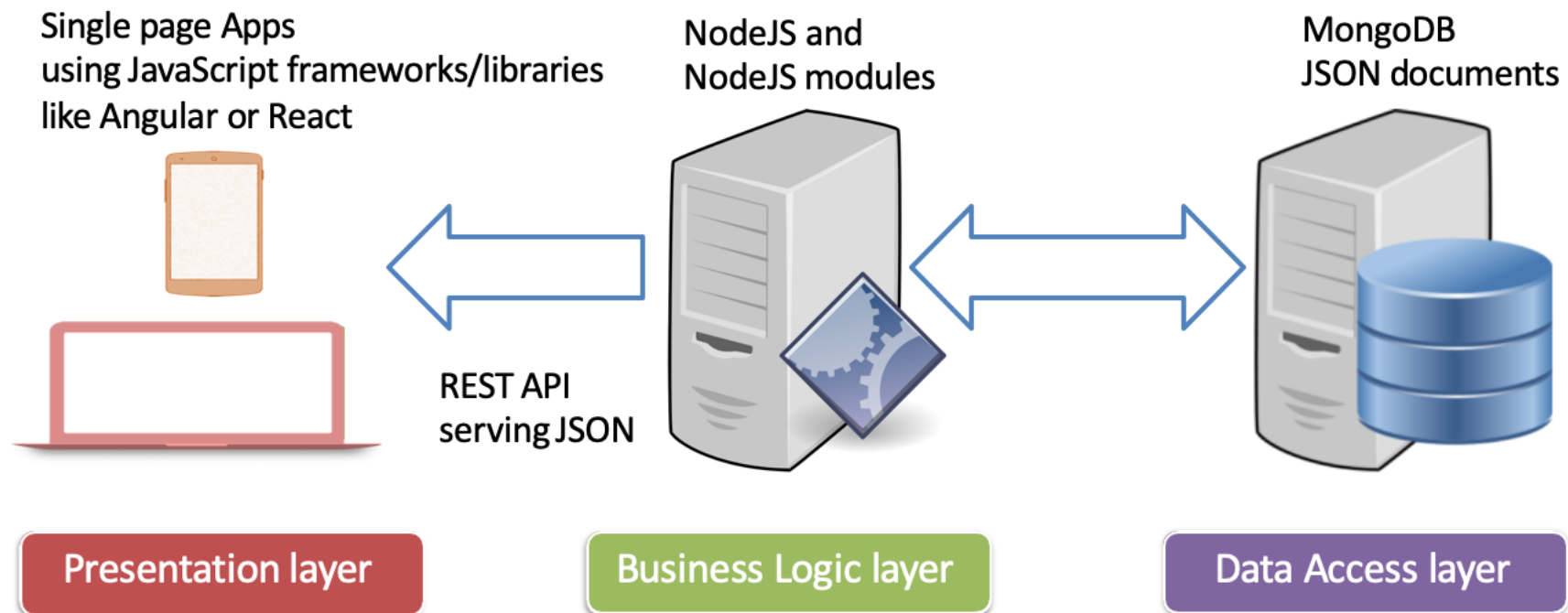
WHAT IS FULL STACK WEB DEVELOPMENT?

- Front end / Client-side
 - HTML, CSS and Javascript
- Back end / Server-side
 - Various technologies and approaches – PHP, Java, ASP.NET, Ruby, Python

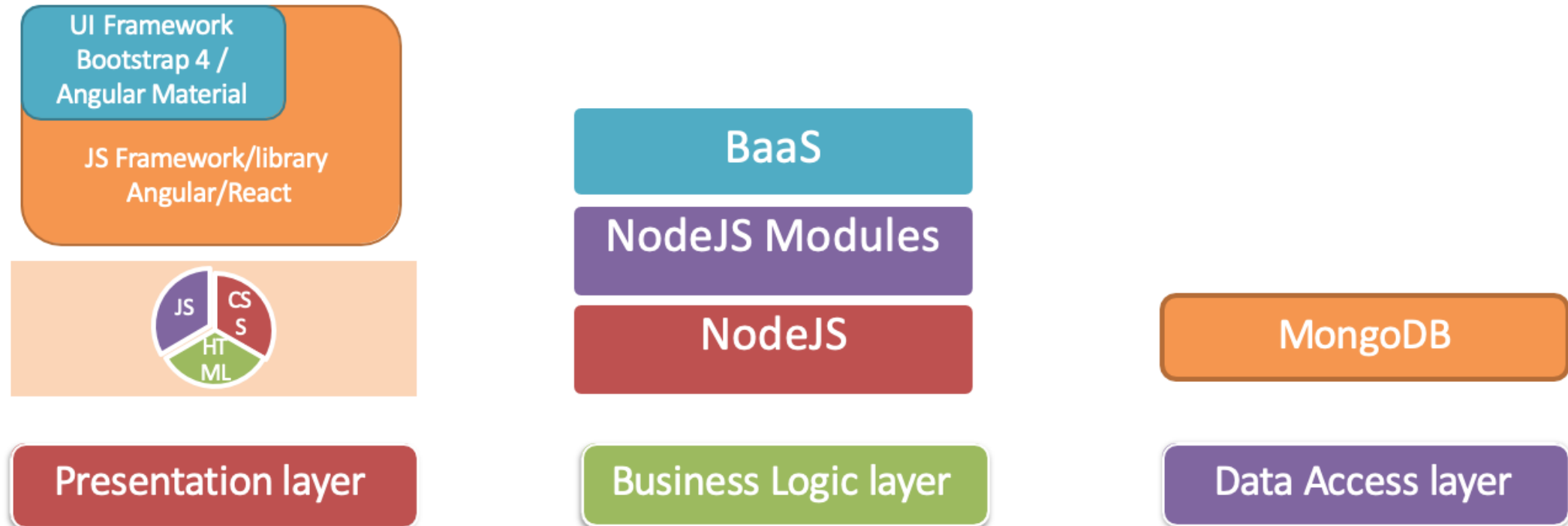
TRADITIONAL WEB DEVELOPMENT



FULL STACK JAVASCRIPT DEVELOPMENT



FULL STACK WEB DEVELOPMENT



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