

### IEEE BRANCH IONIAN UNIVERSITY

## Full Stack Web Development

HTML • CSS • JAVASCRIPT • PHP • MYSQL

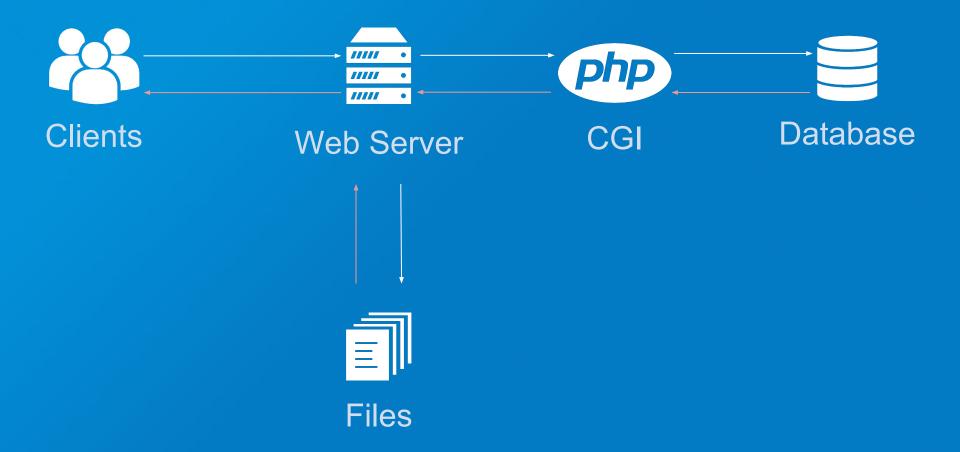
### Introduction

# Web Application Development

**Building Blocks** 

- Web Server
  - Apache, Lighttpd, Nginx
- Common Gateway Interface
  - o Clang, Perl, PHP
- Database Server
  - Relational Databases
    - MySQL, PostgreSQL
  - Non-Relational Databases
    - MongoDB, Redis

### Apache + MySQL + PHP



### **Environment Setup**

#### Hosting a Web Server

- For Personal Computers:
  - XAMPP (apachefriends.org)
  - o AMMPS (ampps.com)
- Server setup on Linux
  - LAMP (shor10.me/ZKvq) (DigitalOcean)

#### **Choosing an IDE**

- Cloud9 (ide.c9.io)
- Visual Studio Code (code.visualstudio.com)
- Atom Editor (atom.io)
- Vi/Vim (www.vim.org)

#### DigitalOcean (Github Student Developer Pack)

(education.github.com/pack)

### Let's get started!

## Hypertext Markup Language (HTML)

### **Syntax**

### Structure

### Elements

### **Attributes**

### Mozilla Developer Network (MDN) developer.mozilla.org

The **HTML** <h1>-<h6> elements represent six levels of section headings. <h1> is the highest section level and <h6> is the lowest.



### **Using The Browser Developer Tools**

- Chrome / Mozilla / Edge
  - Ctrl + Shift + I
  - o F12
- Features
  - Elements
  - o Console
  - Network
  - Performance monitoring
  - Many, many more
- You change elements without altering code and refreshing!