

# DAILY DIARY OF TRAINING IN FULL STACK DEVELOPMENT

## Day 1-30: Introduction of HTML and CSS

### Day 1-2:

- **Tasks:**

- Set up development environment (install VSCode, Git, Node.js)
- Create a GitHub repository

- **Reflections:**

- How easy was it to set up the environment?
- Any issues faced during installation?

- **Learning Outcomes:**

- Basic understanding of development tools

### Day 3-20:

- **Tasks:**

- Learn HTML basics (tags, structure)
- Create a simple webpages

- **Reflections:**

- What challenges did you face while learning HTML?

- **Learning Outcomes:**

- Familiarity with HTML structure and common tags

### Day 21-30:

- **Tasks:**

- Learn CSS basics (selectors, properties, values)
- Style the webpage

- **Reflections:**

- How did CSS change the appearance of your webpage?

- **Learning Outcomes:**

- Understanding of CSS styling and layout

## Day 31-50: Introduction of HTML and CSS

### Day 31-35:

- **Tasks:**

- Introduction to JavaScript (variables, data types, operators)
- Add basic interactivity to your webpage

- **Reflections:**

- What was your first impression of JavaScript?

- **Learning Outcomes:**

- Basic understanding of JavaScript syntax and usage

#### Day 36-40:

- **Tasks:**

- Learn about functions and events in JavaScript
- Implement a simple function that triggers on a button click

- **Reflections:**

- How did you implement the function? Any issues?

- **Learning Outcomes:**

- Understanding of JavaScript functions and events

#### Day 41-45:

- **Tasks:**

- Learn about arrays and objects in JavaScript
- Create a small project using arrays and objects

- **Reflections:**

- How comfortable are you with manipulating arrays and objects?

- **Learning Outcomes:**

- Familiarity with JavaScript data structures

#### Day 46-50:

- **Tasks:**

- Learn about DOM manipulation in JavaScript
- Implement interactive tasks using HTML, CSS and Javascript

- **Reflections:**

- What did you find most challenging about DOM manipulation?

- **Learning Outcomes:**

- Understanding of how to manipulate the DOM using JavaScript

## Day 51-60: Introduction of HTML and CSS

### Day 51-60:

- **Tasks:**

- Learn about CSS frameworks (Bootstrap)
- Implement Bootstrap in your project

- **Reflections:**

- How did Bootstrap make styling easier?

- **Learning Outcomes:**

- Familiarity with Bootstrap and its component

## Day 61-90: Advanced Frontend and Backend Basics

### Day 61-65:

- **Tasks:**

- Dive deeper into JavaScript (promises, async/await)
- Create a project using modern JavaScript features

- **Reflections:**

- How did ES6 features improve your code?

- **Learning Outcomes:**

- Advanced JavaScript understanding

### Day 66-73:

- **Tasks:**

- Learn about frontend frameworks (React)
- Set up a Food Delivery project using react

- **Reflections:**

- What was your first impression of the framework?

- **Learning Outcomes:**

- Basic understanding of a frontend framework

### Day 74-80:

- **Tasks:**

- Learn about state management in chosen project
- Implement a project with state management

- **Reflections:**

- How did state management simplify your project?

- **Learning Outcomes:**

- Understanding of state management concepts

## Day 81-90:

- **Tasks:**

- Introduction to Node.js and Express.js
- Set up a simple server and create basic API endpoints

- **Reflections:**

- How does server-side JavaScript differ from client-side?

- **Learning Outcomes:**

- Basic understanding of backend development with Node.js

## Day 91-125: Full Stack Development

### Day 91-97:

- **Tasks:**

- Learn about databases (SQL vs NoSQL)
- Set up a database (MongoDB or PostgreSQL) and connect it to your server

- **Reflections:**

- What are the pros and cons of your chosen database?

- **Learning Outcomes:**

- Basic understanding of database management

### Day 98-105:

- **Tasks:**

- Test your API endpoints using Postman

- **Reflections:**

- What challenges did you face while implementing operations?

- **Learning Outcomes:**

- Understanding of RESTful API principles

### Day 106-110:

- **Tasks:**

- Learn about authentication and authorization (JWT)
- Implement user authentication in your project

- **Reflections:**

- How did you secure your API?

- **Learning Outcomes:**

- Basic understanding of security in web applications

## Day 111-115:

- **Tasks:**

- Learn about middleware in Express.js
- Implement middleware for logging and error handling

- **Reflections:**

- How did middleware improve your application?

- **Learning Outcomes:**

- Understanding of middleware functions

## Day 116-125:

- **Tasks:**

- Finalize Food Delivery website using MERN stack
- Prepare a presentation/demo of project

- **Reflections:**

- What were the key takeaways from your 125-day journey?

- **Learning Outcomes:**

- Completion of a full-stack project