



SWABHAV

**techlabs**

Transformative Design-Driven Learning

**WEB**

**DEVELOPMENT**

**CORE**

**COURSE**

**(MEAN stack)**

Our curriculum at Swabhav Techlabs transforms coding enthusiasts into competent full stack web developers.

In our course, you will gain indepth knowledge of software development fundamentals and the metacognitive skills to pick up new languages and technologies, in order to build a successful tech career.

## INITIAL PREP-WORK



### Phase 0: The Building Blocks

While the lectures go on, Students are expected to spend between 10 - 15 hours per week for the prepwork from their home for easier learning

### Skill Development

- > OOP
- > OOAD
- > Design Patterns
- > Java
- > JavaScript
- > Node J.S

## 8 WEEK IMMERSIVE: CREATING PASSIONATE DEVELOPERS

Each phase is a week long with assessments at the end of every lecture. 80% of student's time is spent solving code problems during and after the lecture.



### Phase 1: Programming Fundamentals Learning how to think like a programmer

#### OOAD

- ⇒ Requirement Analysis
- ⇒ UML Diagrams
- ⇒ User Cases
- ⇒ Test Cases
- ⇒ Domain Diagram
- ⇒ Class Diagram
- ⇒ OOP

#### Java

- ⇒ Java Software Platform
- ⇒ Language Fundamentals
- ⇒ Packages and Interfaces
- ⇒ Exception Handling
- ⇒ Collections Framework
- ⇒ Event Handling
- ⇒ Multi- threading
- ⇒ JDBC



## Phase 2:

### Programming for the Web

Learning the tools and practices of building Real Apps

#### Design Patterns

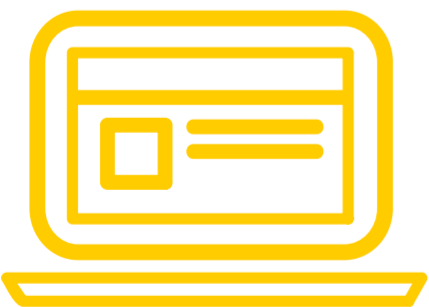
- ⇒ Strategy Pattern
- ⇒ Decorator Pattern
- ⇒ Factory Pattern
- ⇒ Abstract Factory Pattern
- ⇒ Singleton Pattern
- ⇒ Command Pattern
- ⇒ Adapter Pattern
- ⇒ Facade Pattern
- ⇒ State Pattern
- ⇒ Composite Pattern
- ⇒ MVC Pattern

#### Java Script

- ⇒ Execution Content
- ⇒ Lexical Environment
- ⇒ Types & Operators
- ⇒ Objects & Functions
- ⇒ ECMA Script 6

#### Node JS

- ⇒ Introduction & Setup
- ⇒ V8 Java Script Engine
- ⇒ The Node Core
- ⇒ Module, Exports Require
- ⇒ Events & the Events Emitter
- ⇒ Handling Routes
- ⇒ Template Engine
- ⇒ Http Methods & Header



## Phase 3:

### Putting it all Together

Building fully functional Web Applications

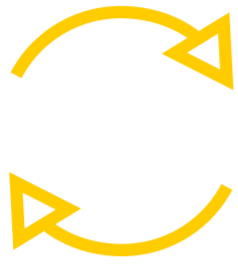
#### Tic Tac Toe

**XO**

- Build a networked, multiplayer tic-tac-toe game.
- Focus on Clean code , Code Readability and Design principles.



## Phase 4: Practicing Agile Development Writing your Code Documentation



- Understand the concept of Agile Workflow
- Learn Project Documentation following SDLC
- Learn Unit and Integration Testing

### IMPLEMENTATION DURING THE COURSE

- ⇒ Design and build application on the web platform.
- ⇒ Create blueprints and wireframes.
- ⇒ Translate the above into high quality code(Reusable & reliable).
- ⇒ Check the responsiveness of the application.
- ⇒ Unit-test code for robustness.
- ⇒ Work on bugs fixing.
- ⇒ Write code documentation
- ⇒ Follow the Software Development Lifecycle using Agile Methodology

### PERKS FOR APPLYING FOR THE COURSE

- ⇒ Receiving certificate upon completion of the course.
- ⇒ Gaining Industry exposure by building full stack web based applications.

For any enquiries regarding the Admission Process:

✉ info@swabhavtechlabs.com

☎ +91-22-6742 7879 | 22-6642 8588



201, Navkar Complex, Opp Andheri Court, Andheri (East), Mumbai - 69