



LONDON SCHOOL  
OF EMERGING TECHNOLOGY



# FRONT END DEVELOPER

## COURSE ID

FED

## DEPARTMENT

WEB DESIGN &  
DEVELOPMENT

## CAMPUS

1 CORNHILL

## LEVEL

CERTIFICATE

## METHOD

LECTURE + PROJECT

## DURATION

3 MONTHS

A frontend web developer is responsible for implementing visual elements that users interact with within a web application. They are supported by backend developers, who are responsible for server-side application logic and integration of the work that frontend developers do.

**APPLY  
NOW!**

to become a **professional Front End Developer**



Frontend developer skills include web design, maintenance, and web development that are some of the hottest and in-demand skills today. It's a field that provides great opportunities for hands-on learning. Great salaries, job security, huge demand are some of the perks that come with a career in frontend development. With the correct skills, you can be accessible to numerous job opportunities.

This course is for you if you are willing to learn how to code through projects, if you want to build your startup by building your own websites and web apps, if you are a seasoned programmer, then you should take this course to get up with the latest frameworks, if you want to take this course, you will learn everything you need to know about web development.



After completing this course, you will be able to build any website, create a portfolio of websites, build full-fledged websites for your business or work as a freelance web developer, master frontend development, learn the latest frameworks, learn professional developer Practices and a lot more.

## TECHNOLOGIES COVERED

**npm:** The Node Package Manager (npm) is practically a required tool for all web developers these days. Even if you're not doing Node.js development, npm is the primary tool used to install thousands of client-side web development packages—including Angular. The entirety of Angular is spread across multiple npm packages and it's very likely you will eventually have a need to install other useful, non-Angular packages as well. Therefore, knowing how to install what you need when you need it is valuable.

**Angular CLI:** The first Angular package you should install with npm is the Angular CLI (Command Line Interface). Although it's certainly possible to install Angular packages individually and write all the code by hand to configure your new app, the CLI makes that process much easier and ensures that your app will adhere to accepted best practices.

**React (Optional)** (also known as React.js or ReactJS) is a free and open-source front-end JavaScript library for building user interfaces based on UI components. It is maintained by Meta (formerly Facebook) and a community of individual developers and companies.

**HTML and CSS:** Frameworks like Angular don't eliminate the need for a thorough knowledge of the most fundamental web development technologies. Angular provides the building blocks you need to build fast, functional apps, but those apps still must be rendered in a browser and that means building user interfaces with HTML and CSS. Angular Material and other style libraries are great at helping you quickly deliver beautiful apps, but you need to know how and where to tweak things to achieve the precise look you're trying to deliver. Frameworks come and go, but fundamentals like HTML and CSS are forever!





**Angular:** This one is obvious, right? You can't be a good Angular developer without a solid understanding of the Angular framework itself.

Angular is a large framework and it will take some time to learn all the different parts and how they fit together. However, the good news is you don't need to know everything to get started building useful applications.

Just about every Angular application will need forms, modules, components and services. Learn how to add and connect these pieces and you'll have the skills necessary to build full-featured production applications. You'll also have a solid foundation for continued learning and the implementation of increasingly sophisticated solutions

**TypeScript:** Client-side web applications have traditionally been written with JavaScript. TypeScript is a superset of JavaScript that includes support for strong typing. Angular is written in TypeScript. It's the recommended language for creating apps with Angular.

**RxJS:** RxJS is a library for reactive programming with observable streams. It exists independent of Angular but is bundled with the framework and used for many common tasks such as making HTTP requests for data. Angular uses observables and the other features of RxJS to provide a consistent API for performing asynchronous tasks.

**Git:** Building even simple applications without source control is a risky way to work. Just as TypeScript lets you refactor your code with confidence, Git lets you experiment with new application features and coding techniques with confidence. Knowing you can quickly and easily use your Git repository to return to a previous (working!) version of your code gives you the freedom to test out crazy ideas or build a proof of concept your users may find helpful. Software is always evolving. Using Git helps you evolve your apps safely with no fear of losing work or breaking existing functionality.





## JOB GUARANTEE

Job Guarantee is an add-on program you can register with this course. You will need to clear an assessment interview to get enrolled. Once successful in the assessment, you will be offered Job Guarantee with this certificate course. There is a fee to join this program as it takes you to rigorous career development, interview preparation, mock interviews, etc. The fee for joining the Job Guarantee add-on program is £500. This is a 12 months program which starts at the end of your certificate course. As part of this program, we represent you to the prospective employers and train on career development elements...

You need to abide by the rules of this program which you can find on the Job Guarantee page. If we can't find you a relevant job or you don't find it by yourself in the similar industry in any part of the world within these 12 months, we will refund you the course fee + Job Guarantee program fee. The refund process will start after the end of the 12 months and every month we will pay £500 until the entire fee is paid back. But if you find a relevant job during this time then the remaining payments will be stopped. This program is only applicable to home students (UK permanent residents / citizens).

## INDUSTRIAL TRAINING

LSET offers an optional add-on industry training program to its students. Students wishing to enrol in this program require to pay fee of £2000 to receive training from industry experts at IT companies in the US or UK. This is a month-long program which takes place at the host company's location. Interested students need to go through an assessment and host company's interview process to be accepted in the program.







## COMPLEMENTARY WORKSHOPS



GIT MANAGEMENT



AGILE PROJECT  
MANAGEMENT



TEAM BUILDING



PERSONALITY  
DEVELOPMENT



INTERVIEW  
PREPARATION

## COURSE INFORMATION



SEPTEMBER  
END: DECEMBER



JANUARY  
END: APRIL



MAY  
END: AUGUST

## ENTRY CRITERIA

- ✓ You don't need any previous knowledge to start this course. All you need is a computer that can run modern web browsers, an internet connection, and a willingness to learn.
- ✓ Basic Proficiency with Computers
- ✓ Ability to work in Group
- ✓ Basic Understanding of English

## COURSE HIGHLIGHTS

- ✓ Hands-on Sessions
- ✓ Project-based Learning
- ✓ Live or Offline Capstone Project
- ✓ Real world development experience
- ✓ Industry Mentors
- ✓ Interactive Teaching Methodologies

## EVALUATION CRITERIA

- ✓ 18 Coding exercises
- ✓ 5 Assignments
- ✓ 5 Quizzes
- ✓ Capstone Project
- ✓ Group activities
- ✓ Presentations

## LEARNING OBJECTIVES

- ✓ Basic setup and learning how to learn
- ✓ Web standards and best practices (such as accessibility and cross-browser compatibility)
- ✓ HTML, the language that gives web content structure and meaning
- ✓ CSS, the language used to style web pages
- ✓ JavaScript, the scripting language used to create dynamic functionality on the web
- ✓ Tooling that is used to facilitate modern client-side web development.
- ✓ Get your hands dirty writing and styling website front-ends using HTML and CSS
- ✓ Build real-world projects including an image carousel and an infinitely scrolling list
- ✓ Make your site interactive using JavaScript
- ✓ Go beyond the basics: get introduced to TypeScript and React

## COURSE DURATION & CLASS TIMINGS

**3 MONTHS / 70+ HOURS**



**WEEKDAYS BATCH**  
5:30 pm – 7:30 pm  
(Wed, Thu, Fri)



**WEEKENDS BATCH**  
9:00 am to 12:00 am  
(Sat, Sun)



**INTERVIEW PREPARATION**  
Wednesday  
(4 Workshops)





**HANDS-ON  
WORKSHOPS**  
Thursday  
(2 Workshops)



**PERSONALITY  
DEVELOPMENT**  
Friday  
(1 Workshop)



**HANDS-ON  
WORKSHOPS**



**INTERVIEW  
PREPARATION**



**CV  
PREPARATION**



**PERSONALITY  
DEVELOPMENT**

Join the Frontend Development Certificate course to learn how to use web development and web designing tools like HTML, CSS, JavaScript, and more. LSET teaches you to create stunning and user-friendly websites and web apps.

## COURSE CONTENT

Browse the LSET interactive and practical curriculum

### INTRODUCTION

- ▶ Course Introduction
- ▶ How to make the best of this course
- ▶ GIT Introduction and Setup
- ▶ Course Induction
- ▶ Student Introduction

### HTML

- ▶ HTML document structure
- ▶ HTML elements – div and span
- ▶ HTML elements – i, b, p, and a
- ▶ HTML elements – ul, li, and ol





- ▶ HTML elements – header and footer
- ▶ HTML elements – section, main, and article
- ▶ HTML elements – h1-h6 and aside
- ▶ HTML tables
- ▶ Project #1 – HTML text site

## ADVANCED HTML CONCEPTS

- ▶ Images
- ▶ Forms
- ▶ Inputs
- ▶ Checkboxes
- ▶ Radio buttons
- ▶ Select, option, and buttons
- ▶ HTML5 audio
- ▶ Doctypes
- ▶ Meta tags

## INTRODUCTION TO CASCADING STYLE SHEETS (CSS)

- ▶ Targeting color and background
- ▶ Element specificity
- ▶ ID targeting, margin, and border
- ▶ Padding, margin, and float
- ▶ Max-width and background-image
- ▶ Switching over to an IDE
- ▶ Font weight, style, and family
- ▶ Text decorations
- ▶ Text spacing
- ▶ Text decoration modification
- ▶ Text shadow





## ADVANCED CSS

- ▶ Pseudo-states
- ▶ Border radius
- ▶ Border radius
- ▶ Pseudo-elements
- ▶ Z-index
- ▶ Viewpoint width and height, overflowing content
- ▶ Transition property



## JAVASCRIPT FOR BEGINNERS

- ▶ Intro to JavaScript
- ▶ Alerts and console logging
- ▶ Integers, strings, and variables
- ▶ Undefined variables and modifying values of variables
- ▶ Boolean operators
- ▶ Comparing values
- ▶ If statements
- ▶ For loops
- ▶ Defining functions
- ▶ Event handling
- ▶ Setting an elements innerHTML



## MORE JAVASCRIPT CONCEPTS

- ▶ Arrays pt.1
- ▶ Arrays pt.2
- ▶ Arrays pt.3
- ▶ Textareas and getting the value of inputs
- ▶ Functions – parameters and return values





- ▶ Multiple parameters in functions
- ▶ Flexible function parameters
- ▶ Exercise – find the missing number
- ▶ Exercise solution
- ▶ Classes explained
- ▶ Class constructor, instance variables, and static variables
- ▶ Extending classes

## GETTING STARTED WITH JQUERY

- ▶ jQuery setup
- ▶ Targeting elements
- ▶ Event handling
- ▶ Dropdown menus
- ▶ Making our dropdown disappear
- ▶ Multiple targets, events, and attr method
- ▶ Prepend, append, and html
- ▶ preventDefault
- ▶ event.which and switch properties
- ▶ Custom context menu, pageY, and pageX
- ▶ is method

## MORE JQUERY

- ▶ Writing our own version of jQuery
- ▶ Find method
- ▶ First and last
- ▶ Focusin and focusout
- ▶ Contains, is, andhasClass
- ▶ Each method
- ▶ Callbacks
- ▶ CSS





## IMPORTANT CONCEPTS

- ▶ Scaling
- ▶ Cold Start
- ▶ Cold Start Demo



## BOOTSTRAP BASICS

- ▶ Bootstrap setup
- ▶ Navbar pt.1
- ▶ Navbar pt.2
- ▶ Forms pt.1
- ▶ Forms pt.2
- ▶ Buttons



## REACT FRONT TO BACK

- ▶ Introduction
- ▶ React Basics & JSX
- ▶ Components, Props & State
- ▶ Forms, Validation & Simple Animation
- ▶ Creating Routes & Links
- ▶ Context API, useContext Hook & Deployment
- ▶ APIs & HTTP Requests
- ▶ GitHub Finder Project Start
- ▶ Working With The GitHub API
- ▶ User Profile & Alerts
- ▶ Refactoring Context & Actions
- ▶ More Advanced React Hooks
- ▶ House Marketplace Project Start





- ▶ Firebase Authentication & Profile
- ▶ Get & Create Listings
- ▶ Single Listings, Map, Slider & Edit
- ▶ MERN Project Start, API & Backend Authentication
- ▶ Frontend Authentication
- ▶ Tickets Functionality
- ▶ Notes Functionality & Deploy

## ANGULAR

- ▶ Introduction
- ▶ TypeScript Fundamentals
- ▶ Angular Fundamentals
- ▶ Displaying Data and Handling Events
- ▶ Building Reusable Components
- ▶ Directives
- ▶ Template-driven Forms
- ▶ Reactive Forms
- ▶ Consuming HTTP Services
- ▶ Routing and Navigation

\*Modules of our curriculum are subject to change. We update our curriculum based on the new releases of the libraries, frameworks, Software, etc. Students will be informed about the final curriculum in the course induction class.





# COURSE SCHEDULE

We offer weekdays and weekend batch choices so you can up-skill yourself while keeping your fulltime job. Both batches follow the same curriculum and learning style. However, weekend batches take a little faster approach.

WEEKDAYS					
1st Month					
DAY	MON	TUE	WED	THU	FRI
Week 1	<ul style="list-style-type: none"> <li>Course Introduction</li> <li>How to make the best of this course</li> <li>Course Induction</li> <li>Student Introduction</li> </ul>	<ul style="list-style-type: none"> <li>HTML document structure</li> <li>HTML elements - div and span</li> <li>HTML elements - i, b, p, and a</li> <li>HTML elements - ul, li, and ol</li> </ul>	<ul style="list-style-type: none"> <li>HTML elements - header and footer</li> <li>HTML elements - h1-h6 and aside</li> <li>HTML tables</li> <li>Project #1 - HTML text site</li> </ul>		
	Student Services Welcome Call				
Week 2	<ul style="list-style-type: none"> <li>HTML - Images</li> <li>HTML - Forms</li> <li>HTML - Inputs</li> <li>HTML - Checkboxes</li> </ul>	<ul style="list-style-type: none"> <li>HTML - Radio buttons</li> <li>HTML - Select, option, and buttons</li> <li>HTML5 audio</li> <li>HTML - Doctypes</li> </ul>	<ul style="list-style-type: none"> <li>HTML - Meta tags</li> <li>CSS - Introduction</li> <li>Targeting color and background</li> <li>Element specificity</li> </ul>		
	Quiz				
Week 3	<ul style="list-style-type: none"> <li>ID targeting, margin, and border</li> <li>Padding, margin, and float</li> <li>Max-width and background-image</li> <li>Switching over to an IDE</li> </ul>	<ul style="list-style-type: none"> <li>Font weight, style, and family</li> <li>Text decorations</li> <li>Text spacing</li> <li>Text decoration modification</li> </ul>	<ul style="list-style-type: none"> <li>Text shadow</li> <li>Pseudo-states</li> <li>Border radius</li> <li>Positions</li> </ul>		
			Assignment		Student Feedback
Week 4	<ul style="list-style-type: none"> <li>Pseudo-elements</li> <li>Z-index</li> <li>Viewpoint width and height</li> <li>Overflowing content</li> </ul>	<ul style="list-style-type: none"> <li>Generate and propagate certificates dynamically</li> <li>Use SSL in microservices communication</li> </ul>	<ul style="list-style-type: none"> <li>Transition property</li> <li>Intro to JavaScript</li> <li>Alerts and console logging</li> <li>Integers, strings, and variables</li> </ul>		
	Quiz				
					Personality Development

2nd Month					
DAY	MON	TUE	WED	THU	FRI
Week 1	<ul style="list-style-type: none"> <li>Undefined variables and modifying values of variables</li> <li>Boolean operators</li> </ul>	<ul style="list-style-type: none"> <li>Comparing values</li> <li>If statements</li> <li>For loops</li> </ul>	<ul style="list-style-type: none"> <li>Defining functions</li> <li>Event handling</li> <li>Setting an elements innerHTML</li> </ul>		
			Assignment		
Week 2	<ul style="list-style-type: none"> <li>Arrays pt.1</li> <li>Arrays pt.2</li> <li>Arrays pt.3</li> </ul>	<ul style="list-style-type: none"> <li>Textareas and getting the value of inputs</li> <li>Functions - parameters and return values</li> <li>Multiple parameters in functions</li> </ul>	<ul style="list-style-type: none"> <li>Flexible function parameters</li> <li>Exercise - find the missing number</li> <li>Exercise solution</li> <li>Classes explained</li> </ul>		
	Quiz				
Week 3	<ul style="list-style-type: none"> <li>Class constructor, instance variables, and static variables</li> <li>Extending classes</li> </ul>	<ul style="list-style-type: none"> <li>jQuery setup</li> <li>Targeting elements</li> <li>Event handling</li> </ul>	<ul style="list-style-type: none"> <li>Dropdown menus</li> <li>Making our dropdown disappear</li> <li>Multiple targets, events, and attr method</li> </ul>		
			Assignment		Student Feedback
	Project Introduction Self Study	Project Introduction Self Study	Project Introduction Self Study	Project Introduction Self Study	Project Introduction Self Study
Week 4	<ul style="list-style-type: none"> <li>Prepend, append, and html</li> <li>preventDefault</li> <li>Event.which and switch properties</li> </ul>	<ul style="list-style-type: none"> <li>Custom context menu, pageY, and pageX</li> <li>is method</li> <li>Writing our own version of jQuery</li> <li>Find method</li> </ul>	<ul style="list-style-type: none"> <li>First and last</li> <li>Focusin and focusout</li> <li>Contains, is, and hasClass</li> <li>Each method</li> </ul>		
	Quiz				
	Project Introduction Self Study	Project Build-up and Environment Setup	Project Build-up and Environment Setup	Hands-on Workshops	Interview Preparation
				Product Backlog and Sprint Planning	Product Backlog and Sprint Planning



## 3rd Month

DAY	MON	TUE	WED	THU	FRI
Week 1	<ul style="list-style-type: none"> <li>Callbacks</li> <li>CSS</li> <li>Scaling</li> <li>Cold Start Demo</li> </ul>	<ul style="list-style-type: none"> <li>Bootstrap setup</li> <li>Navbar pt.1</li> <li>Navbar pt.2</li> <li>Forms pt.1</li> </ul>	<ul style="list-style-type: none"> <li>Forms pt.2</li> <li>Buttons</li> <li>React Introduction</li> <li>React Basics &amp; JSX</li> </ul>		Interview Preparation
	User Stories Execution and Development	User Stories Execution and Development	Assignment	User Stories Execution and Development	User Stories Execution and Development
Week 2	<ul style="list-style-type: none"> <li>Components, Props &amp; State</li> <li>Forms, Validation &amp; Simple Animation</li> <li>Creating Routes &amp; Links</li> <li>Context API, useContext Hook &amp; Deployments</li> </ul>	<ul style="list-style-type: none"> <li>APIs &amp; HTTP Requests</li> <li>GitHub Finder Project Start</li> <li>Working With The GitHub API</li> <li>User Profile &amp; Alerts</li> </ul>	<ul style="list-style-type: none"> <li>Refactoring Context &amp; Actions</li> <li>More Advanced React Hooks</li> <li>House Marketplace Project Start</li> <li>Firebase Authentication &amp; Profile</li> </ul>	Student Feedback	Hands-on Workshops
	Quiz	User Stories Execution and Development	User Stories Execution and Development	User Stories Execution and Development	User Stories Execution and Development
Week 3	<ul style="list-style-type: none"> <li>Get &amp; Create Listings</li> <li>Single Listings, Map, Slider &amp; Edit</li> <li>MERN Project Start, API &amp; Backend Authentication</li> <li>Frontend Authentication</li> </ul>	<ul style="list-style-type: none"> <li>Tickets Functionality</li> <li>Notes Functionality &amp; Deploy</li> <li>Angular Introduction</li> <li>TypeScript Fundamentals</li> </ul>	<ul style="list-style-type: none"> <li>Angular Fundamentals</li> <li>Displaying Data and Handling Events</li> <li>Building Reusable Components</li> <li>Directives</li> </ul>	Testing, Deployment and Completion	Testing, Deployment and Completion
	User Stories Execution and Development	User Stories Execution and Development	Assignment	Testing, Deployment and Completion	Testing, Deployment and Completion
Week 4	<ul style="list-style-type: none"> <li>Template-driven Forms</li> <li>Reactive Forms</li> <li>Consuming HTTP Services</li> <li>Routing and Navigation</li> </ul>			Course Completion Session	
	Testing, Deployment and Completion	Testing, Deployment and Completion		Alumni Welcome Session	Capstone Project Presentation
			Awards Ceremony		

## WEEKEND

## 1st Month

DAY	MON	TUE	WED	THU	FRI	SAT	SUN
Week 1						<ul style="list-style-type: none"> <li>Course Introduction</li> <li>How to make the best of this course</li> <li>Course Induction</li> <li>Student Introduction</li> <li>HTML document structure</li> </ul>	<ul style="list-style-type: none"> <li>HTML elements - div and span</li> <li>HTML elements - i, b, p, and a</li> <li>HTML elements - ul, li, and ol</li> <li>HTML elements - header and footer</li> <li>HTML elements - section, main, and article</li> </ul>
	Student Services Welcome Call						
Week 2						<ul style="list-style-type: none"> <li>HTML elements - h1-h6 and aside</li> <li>HTML tables</li> <li>HTML Images</li> <li>HTML Forms</li> <li>HTML Inputs</li> </ul>	<ul style="list-style-type: none"> <li>HTML Checkboxes</li> <li>HTML Radio buttons</li> <li>HTML Select, option, and buttons</li> <li>HTML5 audio</li> <li>HTML Doctypes</li> </ul>
						Quiz	
Week 3						<ul style="list-style-type: none"> <li>HTML Meta tags</li> <li>CSS Induction</li> <li>Targeting color and background</li> <li>Element specificity</li> <li>ID targeting, margin, and border</li> </ul>	<ul style="list-style-type: none"> <li>Padding, margin, and float</li> <li>Max-width and background-image</li> <li>Switching over to an IDE</li> <li>Font weight, style, and family</li> <li>Text decorations</li> </ul>
	Student Feedback						Assignment
Week 4						<ul style="list-style-type: none"> <li>Text spacing</li> <li>Text decoration modification</li> <li>Text shadow</li> <li>Pseudo-states</li> <li>Border radius</li> </ul>	<ul style="list-style-type: none"> <li>Positions</li> <li>Pseudo-elements</li> <li>Z-index</li> <li>Viewpoint width and height, overflowing content</li> <li>Transition property</li> </ul>
	Personality Development					Quiz	



## 2nd Month

DAY	MON	TUE	WED	THU	FRI	SAT	SUN
Week 1						<ul style="list-style-type: none"> <li>Intro to JavaScript</li> <li>Alerts and console logging</li> <li>Integers, strings, and variables</li> <li>Undefined variables and modifying values of variables</li> <li>Boolean operators</li> </ul>	<ul style="list-style-type: none"> <li>Comparing values</li> <li>If statements</li> <li>For loops</li> <li>Defining functions</li> <li>Event handling</li> </ul>
							Assignment
Week 2	Interview Preparation					<ul style="list-style-type: none"> <li>Setting an elements innerHTML</li> <li>Arrays pt.1</li> <li>Arrays pt.2</li> <li>Arrays pt.3</li> <li>Textareas and getting the value of inputs</li> </ul>	<ul style="list-style-type: none"> <li>Functions - parameters and return values</li> <li>Multiple parameters in functions</li> <li>Flexible function parameters</li> <li>Classes explained</li> <li>Class constructor, instance variables, and static variables</li> </ul>
	Student Feedback					Quiz	
Week 3						<ul style="list-style-type: none"> <li>Extending classes</li> <li>jQuery setup</li> <li>Targeting elements</li> <li>Event handling</li> <li>Dropdown menus</li> </ul>	<ul style="list-style-type: none"> <li>Making our dropdown disappear</li> <li>Multiple targets, events, and attr method</li> <li>Prepend, append, and html</li> <li>preventDefault</li> <li>event.which and switch properties</li> </ul>
	Student Feedback		Project Introduction Self Study	Project Introduction Self Study	Project Introduction Self Study		Assignment
Week 4						Project Introduction Self Study	Project Introduction Self Study
	Interview Preparation	Hands-on Workshops	Project Introduction Self Study	Project Build-up and Environment Setup	Project Build-up and Environment Setup	<ul style="list-style-type: none"> <li>Custom context menu, pageY, and pageX</li> <li>is method</li> <li>Writing our own version of jQuery</li> <li>Find method</li> <li>First and last</li> </ul>	<ul style="list-style-type: none"> <li>Focusin and focusout</li> <li>Contains, is, and hasClass</li> <li>Each method</li> <li>Callbacks</li> <li>Scaling</li> </ul>
						Quiz	
						Product Backlog and Sprint Planning	Product Backlog and Sprint Planning

## 3rd Month

DAY	MON	TUE	WED	THU	FRI	SAT	SUN
Week 1						<ul style="list-style-type: none"> <li>Cold Start</li> <li>Cold Start Demo</li> <li>Multi Threading</li> <li>Bootstrap setup</li> <li>Navbar pt.1</li> </ul>	<ul style="list-style-type: none"> <li>Navbar pt.2</li> <li>Forms pt.1</li> <li>Forms pt.2</li> <li>Buttons</li> <li>React Introduction</li> </ul>
	Interview Preparation		User Stories Execution and Development	User Stories Execution and Development	User Stories Execution and Development		Assignment
Week 2						<ul style="list-style-type: none"> <li>React Basics &amp; JSX</li> <li>Components, Props &amp; State</li> <li>Forms, Validation &amp; Simple Animation</li> <li>Creating Routes &amp; Links</li> <li>Context API, useContext Hook &amp; Deployment</li> </ul>	<ul style="list-style-type: none"> <li>APIs &amp; HTTP Requests</li> <li>Working With The GitHub API</li> <li>User Profile &amp; Alerts</li> <li>Refactoring Context &amp; Actions</li> <li>More Advanced React Hooks</li> </ul>
	Student Feedback		User Stories Execution and Development	User Stories Execution and Development	User Stories Execution and Development	Quiz	
Week 3						User Stories Execution and Development	Testing, Deployment and Completion
	Interview Preparation		User Stories Execution and Development	User Stories Execution and Development	Testing, Deployment and Completion	<ul style="list-style-type: none"> <li>House Marketplace Project Start</li> <li>Firestore Authentication &amp; Profile</li> <li>Get &amp; Create Listings</li> <li>Single Listings, Map, Slider &amp; Edit</li> <li>MERN Project Start, API &amp; Backend Authentication</li> <li>Frontend Authentication</li> </ul>	<ul style="list-style-type: none"> <li>Tickets Functionality</li> <li>Notes Functionality &amp; Deploy</li> <li>Angular Introduction</li> <li>TypeScript Fundamentals</li> <li>Angular Fundamentals</li> <li>Displaying Data and Handling Events</li> </ul>
Week 4						Testing, Deployment and Completion	Testing, Deployment and Completion
			Testing, Deployment and Completion	Testing, Deployment and Completion	Testing, Deployment and Completion	<ul style="list-style-type: none"> <li>Building Reusable Components</li> <li>Directives</li> <li>Template-driven Forms</li> <li>Reactive Forms</li> <li>Consuming HTTP Services</li> <li>Routing and Navigation</li> </ul>	Assignment
						Capstone Project Presentation	Student Services Completion Alumni
							Welcome Session
							Awards Ceremony



\*Course Schedule is subject to change. Students will be informed about the final schedule in the course induction class.

## ASSESSMENT CRITERIA

Students will need to clear all the assessments, quizzes, and project work in order to earn the certificate. At a minimum, students are required to satisfy the pass criteria of the course. Students who score 75% or more will be awarded Merit Grade, while students with 85% or more will be awarded Distinction Grade.

### Following are the detailed criteria for each level

#### Pass Grade Criteria

Score minimum 50% aggregate and demonstrate the following;

- Proficiency in the technical skills and techniques
- Must have a minimum attendance of 90% in the classes unless proper medical proof is provided
- Submit all the projects and assignments before the last submission date
- Collaborate with peers in group projects





## Merit Grade Criteria

Score minimum 75% aggregate and demonstrate the following;

- Excellent technical skills and techniques
- Discover and apply strategies to find the perfect solutions
- Select/design and apply appropriate methods/techniques
- Present and communicate appropriate findings



## Distinction Grade Criteria

Score minimum 85% aggregate and demonstrate the following;

- Mastery of technical skills and techniques
- Use critical thinking for self-evaluation and justify valid conclusions
- Take the responsibility the manage and organise activities and teams
- Showcase convergent/lateral/creative thinking.



# ASSESSMENT METHODS

LSET follows strict uniform standards in assessing students' performance during the certificate course. This ensures that the LSET certificate holders demonstrate high ethics and deep technical knowledge. Internal and external examiners will be assessing the students, while the platform will automatically evaluate the quizzes. Instructors are the internal examiners who only evaluate students' soft skills. At the same time, the external examiners are responsible for evaluating students' assessments and project work.

## Internal Evaluation

Instructors only evaluate students on the following, which contribute to 20% of the total score. The total points that can be earned are 100.

- **Punctuality [10 points]:** Students are expected to show punctuality with their attendance, presence, and project/assignment submission time.
- **Dedication [10 points]:** LSET expects the students to give attention and show dedication throughout the curriculum.
- **Time Management [10 points]:** Students should show good time management by completing and submitting their assignments on time. Learning time management is very important for the students to prepare for the real work environment.
- **Attendance [10 points]:** Minimum 90% attendance is required unless a proper reason with evidence is provided. Attendance in LSET classes is important to ensure that the student has thoroughly learned the technical and non-technical concepts taught in the curriculum.
- **Working with Others (Teamwork) [10 points]:** LSET teaches concepts in a collaborative environment where we expect each student to show teamwork and collaboration skills.





- **Problem-Solving Skills [10 points]:** Students need to demonstrate proper problem solving skills. Students need to use knowledge and skills gained in the course to solve real-world problems.
- **Class Participation [10 points]:** Engagement and participation are crucial to ensure that the learning experience is interactive.
- **Communication Skills [10 points]:** Students should display formal communication skills to communicate with their teammates. This prepares them for their future workplace.
- **Presentation Skills [10 points]:** Students have to show their presentation skills while working with their group projects and assignments to become more presentable.
- **Ability to ask Questions [10 points]:** Students should ask relevant questions in the classes to encourage healthy discussion on technical topics.



## External Evaluation

External examiners evaluate students on the following, which contribute to 70% of the total score. The total points that can be earned are 250.

- **5 Assessments [10 points per assessment]:** These assessments are done entirely on the basis of how the student has performed in understanding the lessons and concepts taught by the instructor.
- **1 Capstone Project [200 points]:** The capstone project is conducted at the end of the certificate course to practice all the practical concepts. Students must satisfy the required criteria mentioned in the project requirement document in order to earn the full points.





## Auto Evaluation

Auto evaluation will be conducted via the platform, which contributes to 10% of the total score. The total points that can be earned are 50

- **5 Quizzes [10 points per quiz]:** Quizzes in a class ensures maximum participation and ensure that the students have learned the taught concepts with attention. Students will be presented with multiple choice questions.

## Having Doubts?

### Contact LSET Counsellor

We love to answer questions, empower students, and motivate professionals. Feel free to fill the form and clear up your doubts related to our Java Front End Developer Course.

## Best Career Paths

### JavaScript Developer

A JavaScript developer is responsible for completing the design of applications and software using Java programming language. JavaScript developers work with websites, producing front-end applications, and performing code analysis and overall improvement of style and usability.

### User Interface Developer

What is ui developer role? A UI developer's role is to translate creative software design concepts and ideas into reality using front end technology. They understand the user interface design solution both in its practical intent and creative vision, and convert it into engineered softwares.

### Full-stack JavaScript Developer

Full stack developers are computer programmers who are proficient in both front and back end coding. Their primary responsibilities include designing user interactions on websites, developing servers, and databases for website functionality, and coding for mobile platforms.



## Testing/QA

Also known as a QA engineer, software tester, or software test engineer, a quality assurance (QA) tester develops test plans to test new and existing software, debug code, and improve the usability of software programs. A QA tester works with the development team to produce top-quality software.

## Frontend Developer

Front end developers are computer programmers who specialize in website design. Front end developer duties include determining the structure and design of web pages, striking a balance between functional and aesthetic design, and ensuring web design is optimized for smartphones.

## Web Designer

A Web Designer, or Web Applications Designer, is responsible for designing the overall layout and aesthetic for websites. Their duties include coding webpages or entire websites, meeting with clients to review website templates or refine their designs and running tests to preview layouts and website features.



## Top Companies Hiring Front End Developers





# The Course Provides Shared Expertise by

 **LSET TRAINERS**

 **INDUSTRY EXPERTS**

 **TOP EMPLOYERS**

## Skills You will Gain

- ⇒ HTML ⇒ CSS ⇒ Reactive Programming
- ⇒ Computer science fundamentals
- ⇒ JavaScript ⇒ Webpack ⇒ Responsive Web Design
- ⇒ jQuery ⇒ Testing techniques and tools
- ⇒ Bootstrap ⇒ React ⇒ Angular

## Complete Learning Experience

This course focuses on providing a complete hands-on guided learning experience to help you learn the fundamentals in a practical manner.

- ⇒ We constantly update the curriculum to include the latest releases and features.
- ⇒ We focus on teaching the industry best practices and standards.
- ⇒ We let you explore the topics through guided hands-on sessions.
- ⇒ We provide industry experienced mentor support to every student.
- ⇒ We give you an opportunity to work on the real world examples.
- ⇒ Work with hands-on projects and assignments
- ⇒ We help you to build a technical portfolio which you can present to your prospective employers.

## Reasons to Choose LSET

- ⇒ Interactive live sessions by the industry experts.
- ⇒ Practical classes with project-based learning with hands-on activities.
- ⇒ International learning platform to promote collaboration and teamwork.
- ⇒ Most up-to-date course curriculum based on current industry demand.
- ⇒ Gain access to various e-learning resources.
- ⇒ One-to-one attention to ensure maximum participation in the classes.
- ⇒ Lifetime career guidance to get the students employed in good companies.
- ⇒ Free lifetime membership to the LSET Alumni Club

## What Will Be Your Responsibilities?

- ⇒ Work creatively in a problem-solving environment.
- ⇒ Ask questions and participate in the class discussions.
- ⇒ Work on assignments and quizzes on timely manner.
- ⇒ Read additional resources on the course topics and ask questions in the class.
- ⇒ Actively participate in the team projects and presentations.
- ⇒ Work with the career development department to prepare for interviews
- ⇒ Respond to the instructors, student service officers, career development officers, etc. in a timely manner.
- ⇒ And most importantly, have fun while learning at LSET





# How Does Project-Based Learning Work?

LSET project-based learning model gives students an opportunity to work on the real-world applications and apply their knowledge and skills gained in the course to build high performing industry grade applications. As part of this course, students learn agile project management concepts, tools, and techniques to work on the assigned project in collaborative manner. Project work is done individually by each student but they are encouraged to enhance their solution by collaborating with the teammates.

Following are the steps involved in the LSET's project-based learning;

## Step 1: Project Idea Discussion

In this step, students get introduced to the problem and develop a strategy to build the solution.



## Step 2: Build Product Backlog

This step requires students to enhance the existing starter product backlog available in the project. This helps students to think about the real-life business requirements and formulate them in proper user stories.



## Step 3: Design Releases and Sprints

In this step, students define software releases and plan sprints in each release. Students need to go through sprint planning individually and learn about story points and velocity.



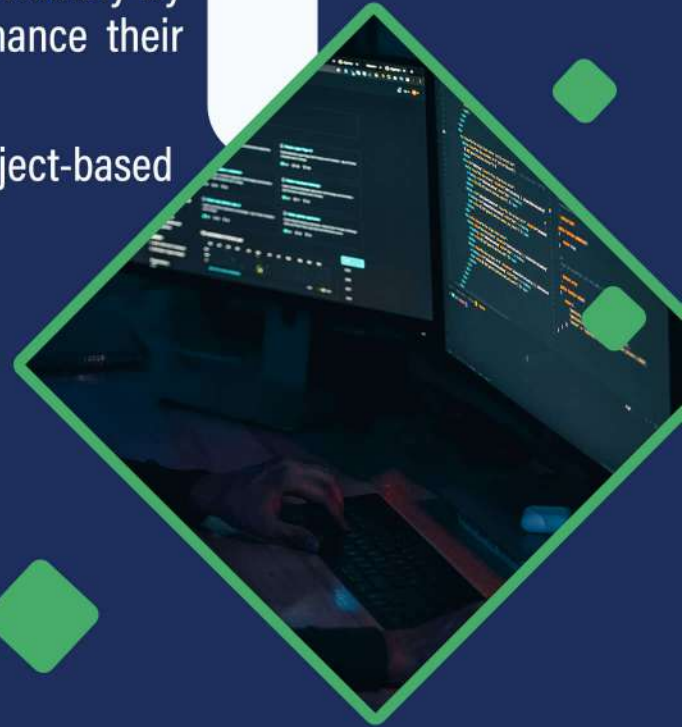
## Step 5: Use CICD to Deploy

In this step, students learn to use CICD (Continuous Integration Continuous Delivery) pipeline to build their application as a docker image and deploy to Kubernetes.



## Step 4: Unit and Integration Tests

In this step, students learn to write unit tests to make sure each and every part of the application works fine.





# Capstone Project

LSET gives you an opportunity to work on the real world project which will greatly help you to build your technical portfolio

## Project Topic: Online Banking

London has been a leading international financial centre since the 19th century. In recent years, London has seen many FinTech start-ups and major innovations in the banking sector. The aim of this project is to introduce students to the financial sector and technologies used in handling billions of transactions per day. As part of this project, students will learn the current technological advances and build up their knowledge to start a simple banking application. This application focuses on building the basic functionality by using agile project management practices. Students will be presented with user stories that will build up the initial project backlog. Students then need to enhance this backlog by adding more relevant user stories and work on them.

## Learning Outcome

- » Students will learn to work in an agile environment
- » Students will learn the agile project management terms which are used in the industry like product backlog, user stories, story point, epics, etc.
- » Students will learn to use Git repository and learn the concepts like commit, pull, push, branch, etc.
- » Students will learn to communicate in a team environment and express their ideas in an effective manner



## Guidance and Help

A dedicated project coordinator will be assigned to this project who can mentor students on the process. Students can also avail the instructor's hours as and when needed. LSET may get an industry expert with subject specific experience to come and help students to understand the industry and its challenges.



## Execution Process

This project will be carried out in phases. Each phase is designed to teach students a specific aspect on the subject and/or development paradigm. Following are the phases students will follow to complete this project.

### Phase 1: Project Introduction Self Study [6 days]

In the first phase, students will learn about the financial industry and go through the project introduction documentation to build up the subject knowledge. This is a self-learning stage however instructor hours are available if required.

### Phase 2: Project Build-up and Environment Setup [2 days]

In this phase, students are required to follow the project guide to setup the development environment. Project document guides students on finding and connecting to the LSET Git repository and install the required libraries or tools.

### Phase 3: Product Backlog and Sprint Planning [2 days]

In this phase, students will use the existing product backlog and enhance it as per their project scope. Students can seek help from the project coordinator and/or the instructor. Project coordinator will help students to do sprint planning and assign story points to the stories. This process is meant to give students real world work environment experience. Students can consider this as a mock exercise on using the agile project management practices.

### Phase 4: User Stories Execution and Development [12 days]

In this phase, students will work on the user stories identified in the Phase 3 process. Students will write code and algorithms to complete the development objectives. Project coordinator will be available to help students to guide on the development and answer any questions they may have. Students can also discuss this with the instructor.



## Phase 5: Testing, Deployment and Completion [5 days]

In this phase, students will test the application and deploy to the cloud environment. Students will experience the deployment process in cloud and learn the best practices. After the successful deployment, students will present their project to the instructor and/or to the external project reviewer. A feedback will be given to the students. Students will have 1 week to work on the feedback and submit the final copy of the project which will be sent to the external examiner for evaluation.



### Project Presentation

LSET emphasis on preparing students for real work environment by giving them opportunities to learn the required soft skills. After completing the project, students are required to present their work to the instructor and an invited project reviewer panel. Please note that the assigned external examiner will not be part of this panel and hence will not know about the students. This ensures an unbiased assessment by the external examiner. The aim of this exercise is to give students an opportunity to experience an environment they may face in their real job. Also, it gives them an opportunity to get feedback from the industry experts who can guide students on various parts of the project. This will help students to learn and fix anything they find necessary in their project. This not only ensures the quality output but also help students to learn about industry requirements.

Instructor and the project reviewer panel will assess the students on the following;

#### **Project Repository on GitHub [10 points]:**

Instructor will ensure that the students have uploaded the project repository to the LSET's GitHub account as per the guidelines given in the project requirement documentation. Full points will be awarded if the repository is properly setup as per the instructions given.





**Presentation Skills [20 points]:** Students are required to present their work in the given timeframe. Full points will be awarded if students cover everything needed to present their work in the given timeframe.

**Communication Skills [20 points]:** Students need to present their work in a manner which is understandable by all the participants. More focus will be given on the way student communicates and not the language. Full points will be awarded if students able to communicate their work properly.

## Evaluation Criteria

LSET promotes transparent and unbiased evaluation process. All the external examiners will follow a set process to grade students. No student's personal or identification information will be shared with the external examiners so they will not be knowing about the person they are grading. They will only get the project files and grading guidelines to follow. This will ensure the equal quality standards across the institute.

Following are some of the key areas the LSET external examiners will be grading on.

**Project Documentation [10 points]:** Project documentation is properly filed up with the information which can be used to understand the project work. Students can use the supplied project documentation template to fill up the information. External examiner to confirm if all the information is filled up. Full points will be awarded if all the sections are covered.

**Project Structure [10 points]:** Students need to follow the proper structure while developing their project. This structure is being taught and/or covered in the project requirement documentation. External examiner to confirm if the project files are properly structured. Full points will be awarded if the structure meets the given guideline.

**Solves Basic Problem [50 points]:** Students need to ensure that they implement all the requirements given in the project documentation. External examiner to confirm if the project solves the given problem. Full points will be awarded if the students include everything that was asked in the project requirement.





**Innovation [20 points]:** Students are encouraged to bring new ideas into their development. They can improve the design, use new design patterns, code with a better coding style, or simply add an additional feature. External examiner to confirm if the students have added more than the requirement given to improve the design or solution. The new addition must include a new feature and should not be similar to the requirements given. Full points will be awarded if the external examiner finds a new innovation or see students going beyond the asked requirements.



**Best Practices [20 points]:** Students are required to follow the best practices in their development. This will help them to become a quality resource for their prospective employer. External examiner to confirm if the supplied best practices are followed in the project. Full points will be awarded if the best practices are properly implemented.

**Performance Consideration [20 points]:** Students need to think about performance while working on their project. Performance is one of the important industry requirement. External examiner to confirm if the student considered the performance improvements in the project. Full points will be awarded if the external examiner sees efforts taken to consider performance aspect in the development.

**Security Structure [20 points]:** Students need to consider the security aspect If applicable in the design and development. External examiner to confirm if the security consideration is applicable in this project, if it is applicable, the examiner to confirm if the student has considered the security elements in the project. Full points will be awarded if the external examiner sees efforts taken to consider the security aspect in the development.



## What you'll learn

- Learn how to build single page applications with React JS
- Create reusable React Components
- Learn to connect to an external API in react native
- Install React Native dependencies for MAC and Windows
- Run Android and IOS simulator on computer



- See the content on the simulator
- Send an HTTP request to a remote API
- Run Expo App on Mobile Device
- Styling with React-Native and flex-box rules
- By learning growing web server technology, Nodejs, you can improve your skills, get a new job and you can build powerful, robust web applications.
- Learn components, props, states and component life cycle methods in React JS
- Learn modern JavaScript, ES6
- React and React native Set up our virtual environment
- Run Android and IOS simulator
- JSX syntax and expressions
- Styling with React-Native and flex-box rules
- React Native Expo installation
- See the content on the simulator
- Reach another app on the phone from the React-Native app
- Learn the key concepts of the NodeJS



## Benefits of LSET Certificate

Earning the LSET Certificate means you have demonstrate hard working capabilities and learnt the latest technologies by completing hands-on exercises and real world projects. Following are some of the traits employers can trust you have built up through your course;

- You know how to work in a team environment and communicate well.
- You know the tools which are necessary in your desired job.
- You know how to use the latest technologies to develop technologically advanced solutions
- You have developed problem solving skills to navigate through complex problem scenarios and figure out right solutions.
- You are now ready to take on the challenge and help your prospective employer to build the desired solutions



# What to expect after completing the course?

After earning your certificate from LSET, you are entitled to join the LSET's Alumni club. There are countless benefits associated with the Alumni Club membership. As a member of LSET Alumni you can expect the following;

- LSET to hold your hand all the way to find a successful career
- Advice you on choosing right career based on your passion and goals
- Connect you with industry experts for career progression
- Provide you opportunities to participate in events to keep yourself updated
- Provide you an opportunity to contribute to the game changing open source projects
- Provide you a platform to shine by giving you an opportunity to speak at our events

## TOOLS & TECHNOLOGIES YOU WILL LEARN FROM THIS COURSE



Sublime Text



Chrome Developer Tools



jQuery



GitHub



Angular



React JS

# REGISTER NOW!

## Start your Journey to Become a Professional Front End Developer

LSET could provide you with the perfect headstart with your career Front End Development.





LONDON SCHOOL  
OF EMERGING TECHNOLOGY

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