



LONDON SCHOOL
OF EMERGING TECHNOLOGY

FULLSTACK WITH DJANGO



COURSE ID

PFD

DEPARTMENT

SOFTWARE
ENGINEERING,
WEB DESIGN &
DEVELOPMENT

CAMPUS

1 CORNHILL

LEVEL

CERTIFICATE

METHOD

LECTURE + PROJECT

DURATION

3 MONTHS

Full- Stack developer is one of the most amazing career options that offer immense job satisfaction, high salaries, and amazing growth opportunities. As per the latest survey, there is a 20% of growth in the demand for Full Stack developers.

**APPLY
NOW!**

to become a professional **Full-stack with Django**



Add on



Add on

It is considered as one of the highest paying professions with an average salary of £47,497 per year. In this course, we will work on your core skills like HTML, CSS, Javascript, jQuery, Bootstrap, Python, Django, REST API, and a lot more.

CAREER PERSPECTIVE

We are living in a digital era that is completely driven by chunks of code. Every industry depends on software for its proper functioning be it military, healthcare, research, banking, and the list goes on. We have a great list of languages that facilitate the web development process.

Django is a Python web framework that facilitates rapid development and clean design. Built by an experienced team of developers, Django takes care of the web development hassle, so you can focus on customizing your app without needing to reinvent the wheel

The demand for Python Developers and Django Developers remains at an all-time high. The average annual salary for a Django Developer is £65,000. Companies are looking for candidates who have had hands-on knowledge of Django and also possess a good command of Python.

TECHNOLOGIES COVERED

HTML: It stands for Hypertext Markup Language which is used to structure webpages and their content. It is really easy to learn and understand.

CSS: stands for cascading style sheet which is used to design HTML documents.

Javascript: It is one of the fundamental technology of the world wide web. More than 97% of the websites use javascript on the client-side of the web pages.

jQuery: is a library of javascript which is fast, feature-rich, and small.

Bootstrap: is an open-source and free CSS framework that is used to design and customize mobile-first sites.

Python: It is an interpreted high-level programming language used for web development, machine learning, AI, ML, and a lot more. It provides a clear approach to programmers to write a clear and logical approach.

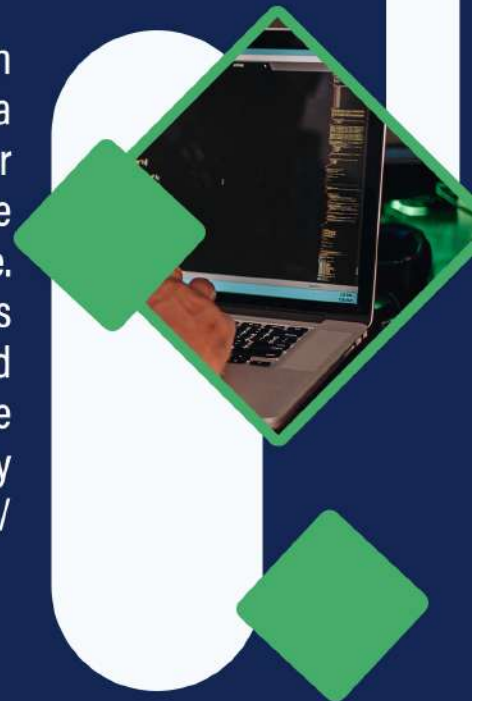
Django: Django is an open-source web framework of python that follows the model-template-views architectural pattern.



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

- ✓ Suitable for Complete Beginners
- ✓ Professionals looking to enhance their knowledge
- ✓ Python Developers willing to become full-stack developers
- ✓ Basic Proficiency with Computers
- ✓ Ability to work in Group

COURSE HIGHLIGHTS

- ✓ Hands-on practice
- ✓ Learn from experts
- ✓ Interactive learning
- ✓ Access on mobile
- ✓ Live project designing
- ✓ Certificate of completion

EVALUATION CRITERIA

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

LEARNING OBJECTIVES

- ✓ Create a fully functional app using the Full-Stack with Django
- ✓ Learn how to use HTML
- ✓ Use CSS to create beautiful designs
- ✓ Learn how to use Bootstrap to quickly design

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🌐 www.lset.uk

- ✔ Use Javascript to interact with the Front-End
- ✔ Learn how to use jQuery to work quickly
- ✔ Understand HTTP requests
- ✔ Learn the power of Python to code out applications
- ✔ Use Django as a back end



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

Enroll now and get an amazing deal with career guidance. Get in touch with our counselors shortly.

COURSE CONTENT

Browse the LSET interactive and practical curriculum

INTRODUCTION

- ▶ Course Introduction
- ▶ How to make the best of this course
- ▶ GIT Introduction and Setup
- ▶ Front End Module

HTML

- ▶ Level One Basic Tagging
- ▶ Level Two Lists
- ▶ Level three Divs and Spans
- ▶ Level four Attributes

HTML ADVANCE

- ▶ Tables
- ▶ Forms and labels
- ▶ Forms and selection
- ▶ Practice Exercise

CSS BASICS

- ▶ CSS Level one
- ▶ CSS Level two
- ▶ CSS Level three
- ▶ CSS Level Four
- ▶ Practice Exercise
- ▶ Solutions



CSS ADVANCED

- ▶ CSS Level one -Fonts
- ▶ CSS Level two- Fonts Continued
- ▶ CSS Level three – Two box model
- ▶ Practice Exercise
- ▶ Solutions

JAVASCRIPT

- ▶ Introduction
- ▶ Basics
- ▶ Connecting Javascript
- ▶ Operators
- ▶ Control Flow
- ▶ While Loops
- ▶ For Loops
- ▶ Loop Exercises
- ▶ Functions
- ▶ Arrays
- ▶ Objects
- ▶ jQuery
- ▶ Bootstrap

PYTHON BASIC

- ▶ Introduction to Python
- ▶ Python Installation and Set-Up
- ▶ Numbers
- ▶ Strings
- ▶ Lists
- ▶ Dictionaries



- ▶ Tuples, Sets, and Booleans
- ▶ Control Flow
- ▶ Functions

PYTHON ADVANCED

- ▶ Object-Oriented Programming -Level One
- ▶ Object-Oriented Programming - Level Two
- ▶ Errors and Exceptions
- ▶ Regular Expressions
- ▶ Modules and Packages
- ▶ Decorators

DJANGO

- ▶ Django
- ▶ Django Templates
- ▶ Django Forms
- ▶ Django Admin Customization
- ▶ ORM
- ▶ Class-Based Views
- ▶ REST APIs
- ▶ User Authentication
- ▶ Django Deployment

*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	Student Services Welcome Call		<ul style="list-style-type: none"> Course Introduction How to make the best of this course GIT Introduction and Setup Course Induction Student Introduction 	<ul style="list-style-type: none"> Level One Basic Tagging Level Two Lists 	<ul style="list-style-type: none"> Level three Divs and Spans Level four Attributes 	
Week 2			<ul style="list-style-type: none"> Tables Forms and labels 	<ul style="list-style-type: none"> Forms and selection Practice Exercise 	<ul style="list-style-type: none"> CSS Level one CSS Level two 	
			Quiz			
Week 3	Student Feedback		<ul style="list-style-type: none"> CSS Level three CSS Level Four 	<ul style="list-style-type: none"> Practice Exercise Solutions 	<ul style="list-style-type: none"> CSS Level one -Fonts CSS Level two- Fonts Continued 	
					Assignment	
Week 4	Personality Development		<ul style="list-style-type: none"> CSS Level three - Two box model Practice Exercise 	<ul style="list-style-type: none"> Solutions JS Introduction 	<ul style="list-style-type: none"> JS Basics JS Connecting Javascript 	
			Quiz			

2nd Month		MON	TUE	WED	THU	FRI
Week 1				<ul style="list-style-type: none"> JS Operators JS Control Flow 	<ul style="list-style-type: none"> JS While Loops JS For Loops 	<ul style="list-style-type: none"> JS Loop Exercises JS Functions
						Assignment
Week 2	Interview Preparation		<ul style="list-style-type: none"> JS Arrays 	Quiz	<ul style="list-style-type: none"> JS Objects 	<ul style="list-style-type: none"> jQuery
Week 3	Student Feedback		<ul style="list-style-type: none"> Bootstrap 		<ul style="list-style-type: none"> Introduction to Python 	<ul style="list-style-type: none"> Python Installation and Set-Up
	Project Introduction Self Study	Project Introduction Self Study	Project Introduction Self Study	Project Introduction Self Study	Project Introduction Self Study	Assignment
Week 4	Interview Preparation		<ul style="list-style-type: none"> Python Numbers 	Quiz	<ul style="list-style-type: none"> Python Strings 	<ul style="list-style-type: none"> Python Lists
	Project Introduction Self Study	Project Build-up and Environment Setup	Project Build-up and Environment Setup	Project Build-up and Environment Setup	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"> Python Tuples, Sets, and Booleans 	<ul style="list-style-type: none"> Python Control Flow 	<ul style="list-style-type: none"> Python Functions Python Object-Oriented Programming -Level One
	Interview Preparation				Assignment
Week 2			<ul style="list-style-type: none"> Python Object-Oriented Programming - Level Two Python Errors and Exceptions 	<ul style="list-style-type: none"> Python Regular Expressions Python Modules and Packages 	<ul style="list-style-type: none"> Python Decorators Django Introduction
	Student Feedback	Hands-on Workshops	Quiz		
Week 3			<ul style="list-style-type: none"> Django Templates Django Forms 	<ul style="list-style-type: none"> Django Admin Customization Django ORM 	<ul style="list-style-type: none"> Django Class-Based Views Django REST APIs
	Interview Preparation				Assignment
Week 4			<ul style="list-style-type: none"> Django User Authentication Django Django Deployment 		Testing, Deployment and Completion
					Testing, Deployment and Completion
	Testing, Deployment and Completion	Testing, Deployment and Completion	Capstone Project Discussion	Capstone Project Presentation	Course Completion Session
					Alumni Welcome Session
					Awards Ceremony

WEEKEND

1st Month

DAY	MON	TUE	WED	THU	FRI	SAT	SUN
Week 1						<ul style="list-style-type: none"> Course Introduction How to make the best of this course Course Induction Student Introduction 	<ul style="list-style-type: none"> HTML - Level One Basic Tagging HTML - Level Two Lists
Week 2						<ul style="list-style-type: none"> HTML - Level three Divs and Spans HTML - Level four Attributes 	<ul style="list-style-type: none"> HTML - Tables HTML - Forms and labels
						Quiz	
Week 3						<ul style="list-style-type: none"> HTML - Forms and selection HTML - Practice Exercise 	<ul style="list-style-type: none"> CSS Level one CSS Level two
							Assignment
Week 4						<ul style="list-style-type: none"> CSS Level three CSS Level Four 	<ul style="list-style-type: none"> CSS Practice Exercise CSS Solutions
						Quiz	
	Personality Development						

2nd Month

DAY	MON	TUE	WED	THU	FRI	SAT	SUN
Week 1						<ul style="list-style-type: none"> CSS Level one - Fonts CSS Level two- Fonts Continued CSS Level three - Two box model 	<ul style="list-style-type: none"> JS Introduction JS Basics Connecting Javascript
							Assignment
Week 2	Interview Preparation					<ul style="list-style-type: none"> JS Operators JS Control Flow JS While Loops 	<ul style="list-style-type: none"> JS For Loops JS Loop Exercises JS Functions
	Student Feedback						Quiz
Week 3						<ul style="list-style-type: none"> JS Arrays JS Objects 	<ul style="list-style-type: none"> jQuery Bootstrap
	Student Feedback		Project Introduction Self Study	Project Introduction Self Study	Project Introduction Self Study		Assignment
Week 4						<ul style="list-style-type: none"> Introduction to Python Python Installation and Set-Up Python Numbers 	<ul style="list-style-type: none"> Python Strings Python Lists Python Dictionaries
	Interview Preparation	Hands-on Workshops	Project Introduction Self Study	Project Build-up and Environment Setup	Project Build-up and Environment Setup	Quiz	Product Backlog and Sprint Planning
						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"> Python Tuples, Sets, and Booleans Python Control Flow Python Functions 	<ul style="list-style-type: none"> Python Object-Oriented Programming -Level One Python Object-Oriented Programming - Level Two Python Errors and Exceptions
	Interview Preparation		User Stories Execution and Development	User Stories Execution and Development	User Stories Execution and Development	User Stories Execution and Development	Assignment
Week 2						<ul style="list-style-type: none"> Python Regular Expressions Python Modules and Packages Python Decorators 	<ul style="list-style-type: none"> Django Introduction Django Templates Django Forms
	Student Feedback	Hands-on Workshops	User Stories Execution and Development	User Stories Execution and Development	User Stories Execution and Development	Quiz	User Stories Execution and Development
Week 3						<ul style="list-style-type: none"> Django Admin Customization Django ORM Django Class-Based Views 	<ul style="list-style-type: none"> Django REST APIs Django User Authentication Django Django Deployment
	Interview Preparation		User Stories Execution and Development	User Stories Execution and Development	Testing, Deployment and Completion	User Stories Execution and Development	User Stories Execution and Development
Week 4						<ul style="list-style-type: none"> Testing, Deployment and Completion 	Assignment
						Testing, Deployment and Completion	Testing, Deployment and Completion
			Testing, Deployment and Completion	Testing, Deployment and Completion	Testing, Deployment and Completion	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 to 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 Full-stack with Django Course



Best Career Paths

Frontend Developer

The front-end developers are responsible for designing and maintaining the client-side of an application. He/she has to use HTML, CSS, JavaScript and more in the development process.

System Administrator

A system administrator has to work with computers, operating systems, software equipment, network components, and more. They provide complete IT support to an organisation.



DevOps Engineer

A DevOps engineer has to work with developers to work with code releases. They have to introduce new tools, processes, and methodologies throughout the software development cycle.

Backend Developer

A backend developer is responsible for the development of the server-side of an application. They work with web services and API to support front-end developers.

Software Tester

A software tester has to work in the quality assurance of software development. They have to do both manual and automated testing to find bugs, issues, and vulnerabilities.

Business Analyst

A business analyst helps organisations to leverage the data and provide useful insights to an organisation. This requires knowledge of programming and databases.

Top Companies Hiring Front End Developers



The Course Provides Shared Expertise by

 LSET TRAINERS  INDUSTRY EXPERTS  TOP EMPLOYERS

Skills You will Gain

Web Technologies

- ⇒ CSS
- ⇒ HTML
- ⇒ JavaScript, JQuery
- ⇒ Bootstrap

Containers

- ⇒ Docker
- ⇒ Docker Compose
- ⇒ Docker Registry
- ⇒ Kubernetes

ORM

- ⇒ Hibernate
- ⇒ Data Access Objects
- ⇒ JPA
- ⇒ Data Transfer Objects

Testing

- ⇒ JUnit
- ⇒ Spring MockMvc
- ⇒ DataJpaTest
- ⇒ Mockito

Version Control

- ⇒ Git Commands
- ⇒ GitHub
- ⇒ Gitlab
- ⇒ Bitbucket

Architecture

- ⇒ Design Thinking
- ⇒ UI/UX Design
- ⇒ Prototyping

Data

- ⇒ RDBMS
- ⇒ ERD
- ⇒ NoSQL
- ⇒ Normalization
- ⇒ SQL
- ⇒ JDBC

Code Quality Tools

- ⇒ SonarQube
- ⇒ Checkstyle

CICD and Build Tools

- ⇒ Maven
- ⇒ Gradle
- ⇒ Jenkins

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 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.



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 CI/CD to Deploy

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



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: Number Guessing

Introduction: This is one of the simple and exciting projects. You can also call it a mini-game. Create a program in which the computer randomly chooses a number between 1 to 20, 1 to 50, or any range. Then give users a clue to guess the number. Every time the user guesses the wrong number, he gets another clue, and his score is reduced. The clue can be multiples, greater, smaller, or a combination of all.

Learning objective: You will learn about the functions to compare the input number with the guessed number, to compute the difference between the two numbers. Then you have to evaluate whether an actual number was inputted or not inputted.

LSET emphasis on project-based learning as it provides an opportunity to the students to master the course content by going through the near real-world work experience. LSET projects are carefully designed to teach the industry required skills and mindset. It motivates the students on various essential aspects like learning to work in teams, improve communication with peers, taking initiatives to look for innovative solutions, improve problem solving skills, understand the end user requirements to build user specific product, etc.

Capstone Projects are aimed to build students' confidence on handling projects and apply their newly learned skills to solve real world problems. This gives an opportunity to the students to reflect upon their learning and find the opportunity to get the most out of the course.



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.

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



HTML, CSS



JAVASCRIPT



JQUERY



BOOTSTRAP



PYTHON



DJANGO

REGISTER NOW!

Start Your Journey to Become a Professional Full-stack with Django Tester

LSET could provide you with the perfect headstart to start your career in **Full-stack with Django.**



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