

Python Internship Route Map

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Version 2.0

Python Route Map

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Program Swapping

Python Route Map v2.0

Python Route Map

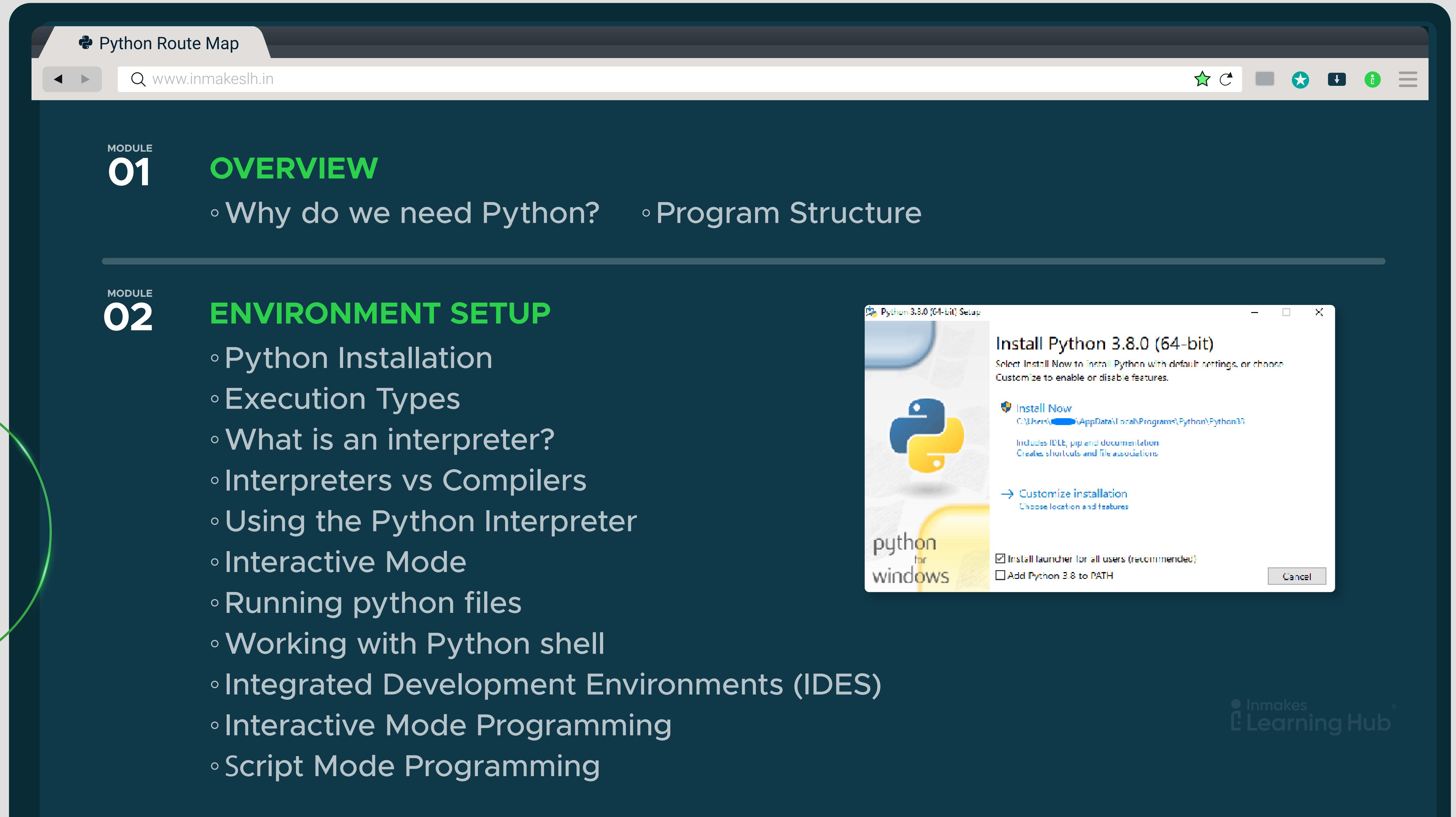
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Who Can Learn Python ?

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- +2 Students (Computer Science)
- Any undergraduate degree in CS
- B.Tech Students
- BCA and MCA Students
- Entrepreneurs
- Professionals

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MODULE
03

DATA TYPES

- Variables
 - Assigning Values to Variables
 - Multiple Assignment
 - Python Numbers
 - Python Strings
 - Accessing Values in Strings
 - String Special Operators
 - String Formatting Operator
 - Triple Quotes
 - Built-in String Operations
-

MODULE
04

PYTHON LISTS

- Accessing Values in Lists
 - Updating Lists
 - Delete List Elements
 - Basic List Operations
 - Indexing, Slicing, and Matrixes
 - Built-in List Functions & Methods
-

CODING
CHALLENGE

- 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10

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MODULE
05

PYTHON TUPLES

- Accessing Values in Tuples
- Updating Tuples
- Delete Tuple Elements
- Basic Tuples Operations
- Indexing, Slicing, and Matrixes
- No Enclosing Delimiters
- Built-in Tuple Functions

CODING
CHALLENGE

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MODULE
06

PYTHON SETS

- Accessing Set Items
- Add Set Items
- Remove Set Items
- Loop Sets
- Join Sets
- Set Methods

CODING
CHALLENGE

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PYTHON STRINGS

- Slicing
 - Modify
 - Format
 - String Methods

CODING CHALLENGE

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PYTHON DICTIONARY

- Accessing Values in Dictionary
 - Updating Dictionary
 - Delete Dictionary Elements
 - Properties of Dictionary Keys
 - Built-in Dictionary Functions & Methods

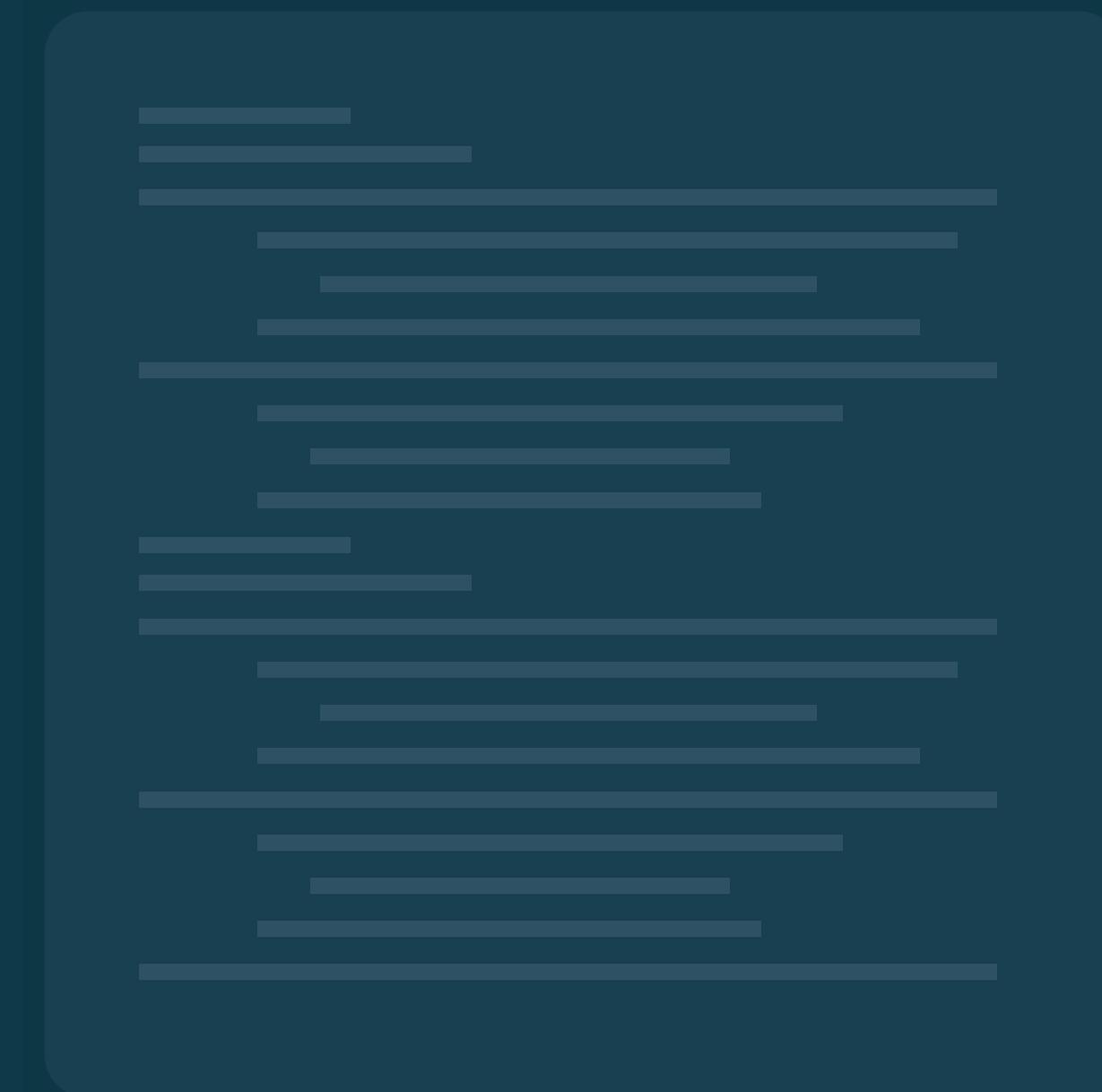
CODING CHALLENGE

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MODULE
09

BASIC OPERATORS IN PYTHON

- Types of Operator
- Python Arithmetic Operators
- Python Comparison Operators
- Python Assignment Operators
- Python Bitwise Operators
- Python Logical Operators
- Python Membership Operators (in, not in)
- Python Identity Operators (is, is not)
- Python Operators Precedence



MODULE
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LOOPS AND DECISION MAKING

- if statements
- if elif else
- if else statements
- nested if statements
- while loop
- for loop
- nested loops

◦ Loop Control Statements

- 1) break statement
- 2) continue statement
- 3) pass statement

CODING
CHALLENGE

- 20 | 21 | 22 | 23 | 24
25 | 26 | 27 | 28 | 29

MODULE
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FUNCTIONS

- Defining a Function
- Syntax
- Calling a Function
- Pass by reference vs value
- Function Arguments
- Required arguments
- Keyword arguments
- Default arguments
- Variable-length arguments
- The return Statement
- Scope of Variables

CODING
CHALLENGE

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MODULE
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ANONYMOUS FUNCTION

- Lambda
- Filter
- Map
- Reduce

CODING
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MODULE
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PYTHON MODULES AND PACKAGES

- Framework vs Packages
- Why are modules used?
- Creating modules
- The import Statement
- The from...import Statement
- The from...import * Statement
- The PYTHONPATH Variable
- Namespaces and Scoping
- The globals() and locals() Functions
- Packages in Python

BASIC OOPS CONCEPT

- Creating class in Python
- Documented String
- Private Identifier
- Class attributes and instance attributes
- Methods in classes: instance methods, class methods, and static methods.
- Constructor
- Inheritance
- Polymorphism
- Encapsulation
- Abstraction

CODING
CHALLENGE

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DECORATOR

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MODULE

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ITERATOR

CODING
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MODULE

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GENERATOR

MODULE

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FILE MANIPULATION

- Opening Text File
- Working with a File on Python
- The open function
- File modes
- The file object attributes
- close() method
- write() method
- read() method
- Files: Input
- Files: Output
- Reading files
- Renaming & deleting files
- Writing into a file
- remove() method

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PYTHON GUI

- Basic Operations using Tkinter
 - Buttons and Textbox
 - Menu Bar
 - Message Box and Radio Button
 - Checkbox and Event Creating
 - Creating Application in GUI
-

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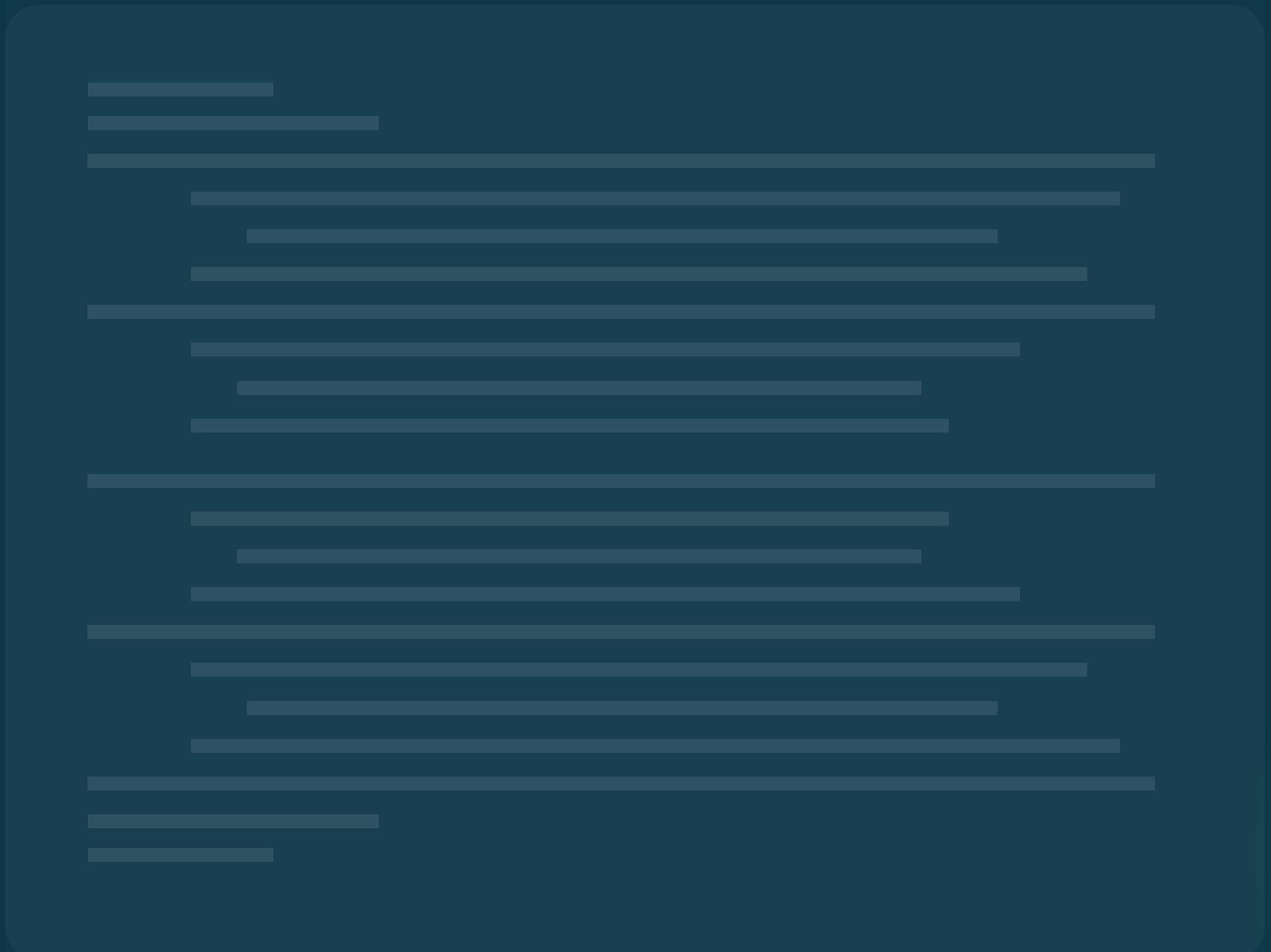
DATABASE

- SQL and Python
- Overview of SQLite
- Integrating Python with SQLite
- MySQL Basics
 - What is Database & RDBMS? Terminologies.
 - What is MySQL? MySQL Advantages
 - PhpMyAdmin Introduction
 - MYSQL Database connection using Python
 - Tables
 - Programming using database connections

- Executing db queries
- DML, DCL and DDL Statements
- JOINS and Aggregate Functions
- GROUP BY, ORDER BY Statements

- PostgreSQL

- PostgreSQL Intro
- PostgreSQL Install
- PostgreSQL Get Started
- PostgreSQL pgAdmin 4
- PostgreSQL CREATE TABLE
- PostgreSQL INSERT INTO
- PostgreSQL Fetch Data
- PostgreSQL ADD COLUMN
- PostgreSQL UPDATE
- PostgreSQL ALTER COLUMN
- PostgreSQL DROP COLUMN
- PostgreSQL DELETE
- PostgreSQL DROP TABLE

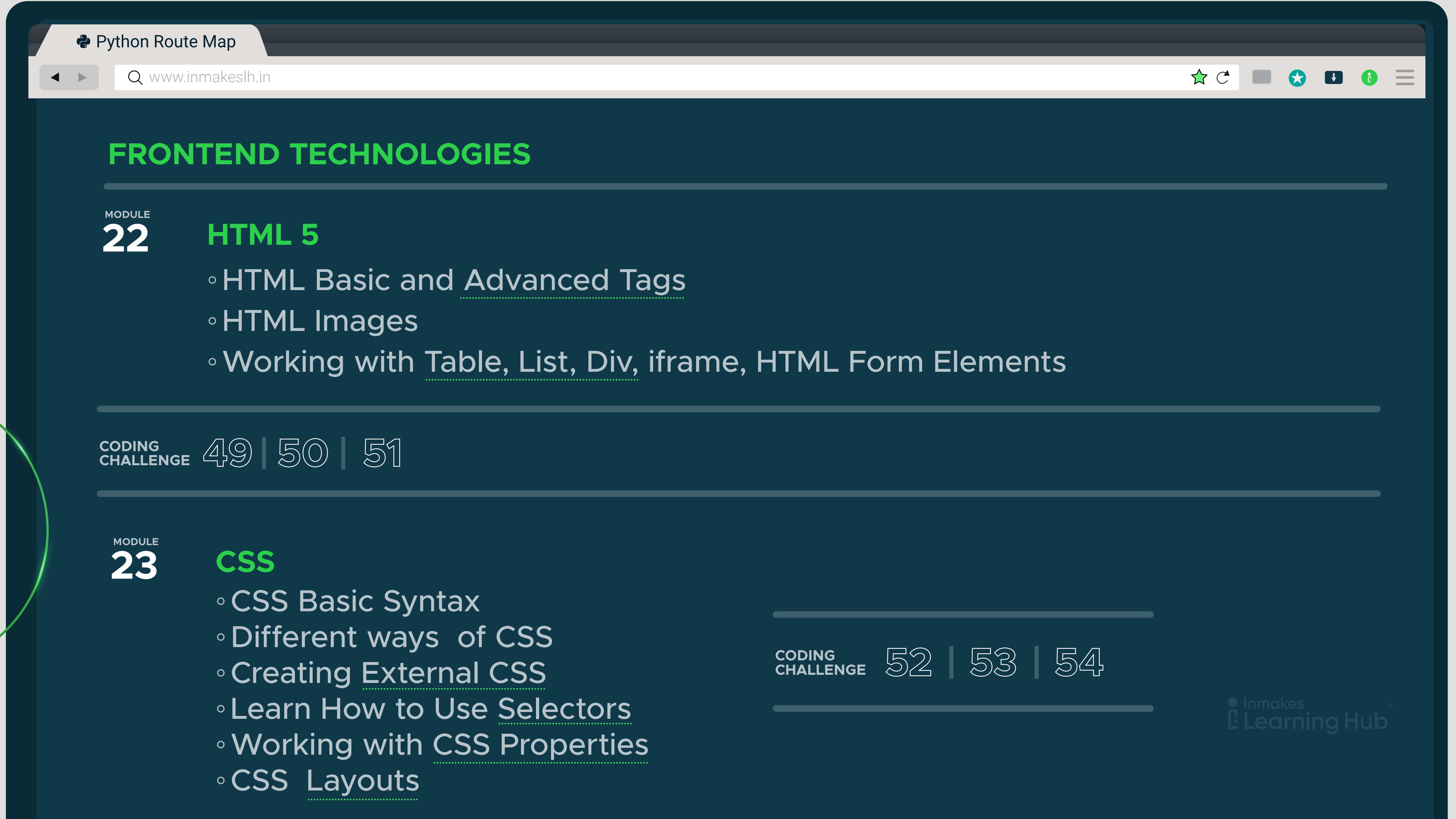


OTHER CONCEPTS

- Errors and Exception Handling
- Standard exceptions
- Assertions in Python
- The assert Statement
- What is Exception?
- Handling an exception
- Syntax
- The except Clause with No Exceptions
- The except Clause with Multiple Exceptions
- The try-finally Clause
- Argument of an Exception
- Regular Expression
- Powerful Utilities
- Multithreading
- List Comprehensive



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JAVASCRIPT

- Define JavaScript
- Variables and Datatypes
- Developing Popup Boxes
- Implement Functions
- Learn how to use JavaScript Events
- Learn how to use Client Side Validation
- Creating External JavaScript

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MODULE
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BOOTSTRAP

- What is Bootstrap
- Installation Process
- How to Use Bootstrap
- Working with Bootstrap Grids
- Working with Bootstrap Controls
- Working with Bootstrap Components
- Using Bootstrap Plug-in

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PAYMENT GATEWAY

- Stripe Payment Integration

MODULE
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DJANGO

- Introduction to Web Development and Django
- Introduction to web development and the Django framework.
- Creating a simple Django project and app.
- Understanding the project structure.

- Running the development server and viewing the default webpage.
- Django models and the Object-Relational Mapping (ORM) concept.
- Defining models and database tables.
- Generating and applying database migrations.
- Building Dynamic Web Applications
- Creating Django admin interfaces.
- Customizing the admin panel for managing database records.
- Adding and editing data using the admin panel.
- Introduction to Django templates.
- Creating templates, template tags, and template inheritance.
- Rendering dynamic content in HTML templates.
- Working with Django forms.
- Building and validating forms for user input.
- Handling form submissions and displaying form errors.
- User Authentication and Authorization.
- User authentication in Django.
- Implementing user registration and login functionality.
- Using built-in authentication views and forms.
- User authorization and permissions.
- Restricting access to views based on user roles.
- Implementing role-based authorization.

- User sessions and cookies in Django.
 - Managing user sessions and implementing session-based features.
 - Security considerations for user sessions.
 - Working with static files: CSS, JavaScript, and images.
 - Configuring static file handling in Django.
 - Optimizing static file delivery.
 - Handling Data and Forms.
 - Building an e-commerce application.
 - Designing models for products and orders.
 - Implementing shopping cart functionality.
-

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REST API

- Introduction to RESTful APIs
- Getting Started with Django Rest Framework
- Serialization
- Views and Generic Views
- Authentication and Permissions

- View sets and Routers
 - Serializers Relationships and Hyperlinked APIs
 - Testing in Django Rest Framework
 - Pagination and Filtering
 - Versioning and Content Negotiation
 - Customization and Advanced Features
-

MODULE
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POSTMAN

MODULE
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REACT.JS

- Introduction
 - Overview of the MERN (MongoDB, Express.js, React.js, Node.js) stack.
 - Setting up a development environment: Node.js, npm, and a code editor.
 - Understanding the role of React.js in front-end development.
 - Creating a simple React component.
 - React component lifecycle and rendering.
 - SX (JavaScript XML) syntax and its use in React.
 - Component nesting and composition.
 - React props and state.

- Building User Interfaces with React.js
 - Handling user input and events.
 - Forms and controlled components.
 - Conditional rendering in React.
 - Lists and keys: rendering dynamic lists of data.
 - Styling in React: inline styles, CSS modules, and external stylesheets.
 - Routing in React: React Router for single-page applications.
 - Creating multiple pages and navigation.
- State Management and Hooks
 - State management in React: lifting state up, context API, and prop drilling.
 - Introduction to React Hooks.
 - useState & useEffect Hooks for managing component state & side effects.
 - Custom Hooks: creating and using custom React Hooks.
- Connecting React.js to Python Back-End
 - Making API requests from React to Python using fetch and Axios.
 - Consuming RESTful APIs with CRUD operations.



Python Route Map

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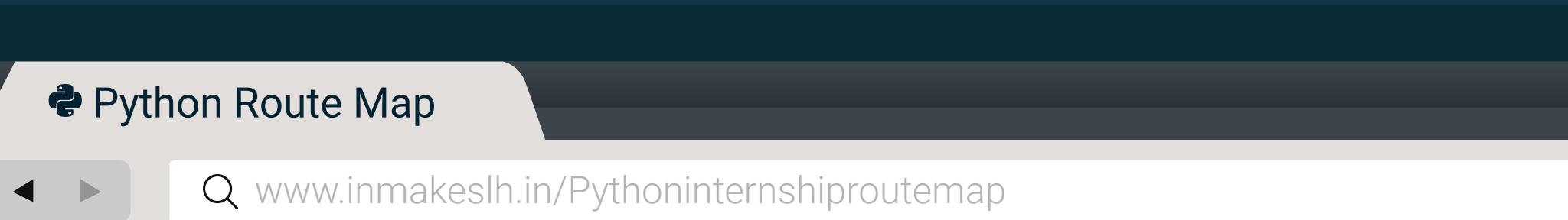
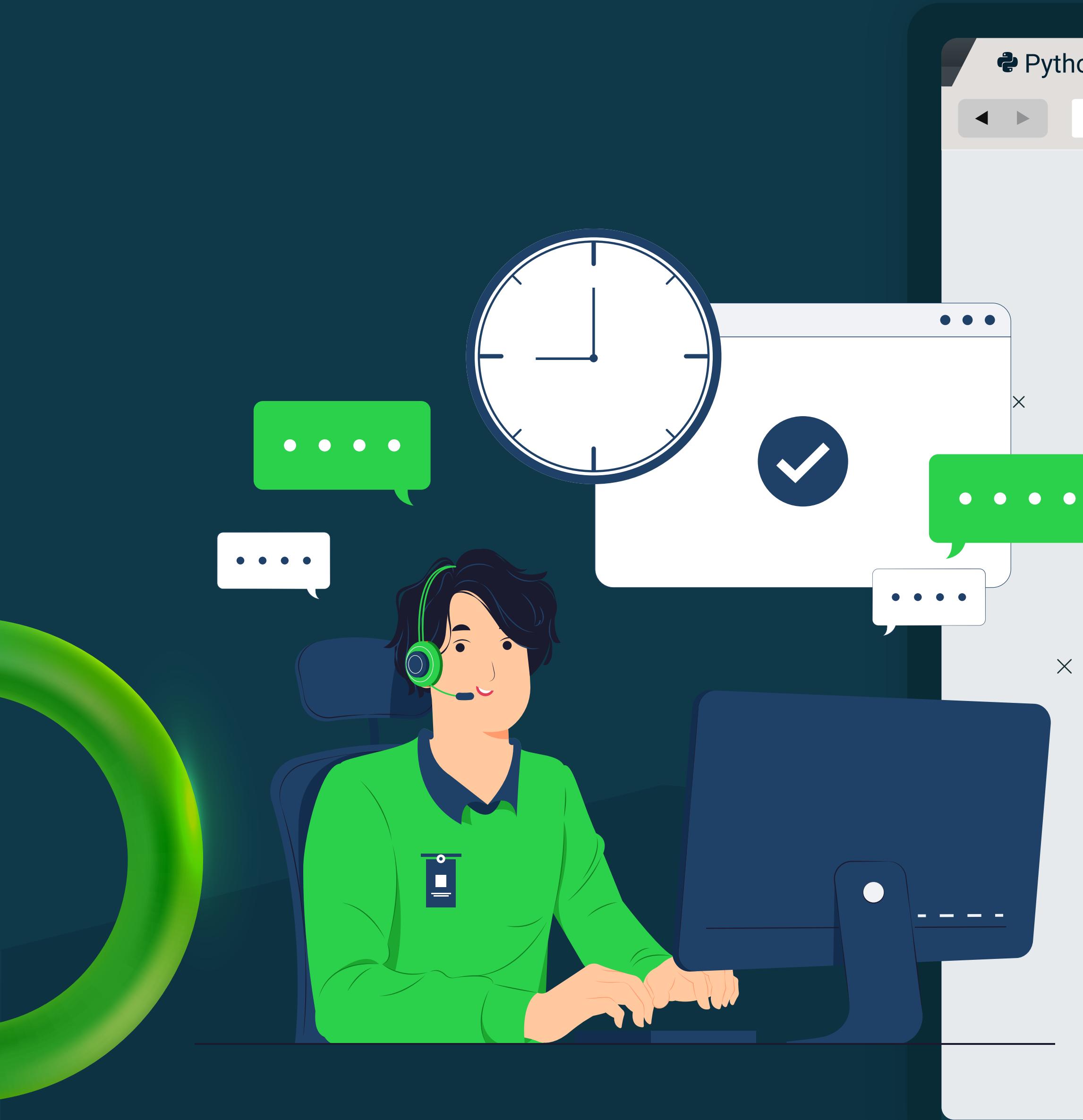
Min. System Requirements

Operating System	Windows 7
RAM Capacity	4 GB
Storage Capacity	256GB
Processor	Pentium Dual Core

Terms & Conditions:

Terms and conditions for enrolling Internship training programme are as follows:

- The training session provided for the internship program will be free of charge. The candidate joining the internship program must purchase a server hosting platform with Micro-Service Architecture, including AWS, Microsoft Azure, Bluehost, and Digital Ocean, for streaming the videos. The amount paid for the server hosting platform is **non-refundable** and serves as confirmation for the portal purchase related to the internship program, as agreed upon.
- Inmakes will offer placement support to candidates who successfully complete their internship program.
- Candidates who avail placement services will be required to pay a total placement fee of **8% + GST** of the CTC amount after getting placed. Initially, the candidate must pay **4% + GST** of the CTC amount within 5 days of joining the company after placement. The remaining **4% + GST** must be paid after the candidate receives their first salary (ISA Applicable). (The placement fees are applicable only to candidates who require placement services.)
- Candidates have the option to switch between internship programs within the first 15 working days or 10% of class completion of their internship period.



Duration



Master Class

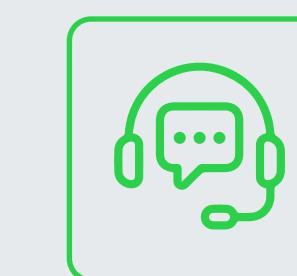
3 Months | 30 Hours of Classes

Support



Support Time

9 AM to 6 PM | (Monday to Friday)
(Break Time: 1. PM to 2.PM)



Support Medium

Skype, Normal Call, and Botim
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Mock Interview



Project: HireHub

Project Details :

Project Platform : Python
Programming Languages : Python Django
IDE Tool(Recommended) : VS Code / PyCharm
Database : MySQL
Project Type : Web Application



Project: E Hospitality

Project Details :

Project Platform : Python
Programming Languages : Django Rest Framework
IDE Tool(Recommended) : VS Code / PyCharm
Database : SQLite
API : Rest Api
FrontEnd Framework : React JS
Project Type : Web Application