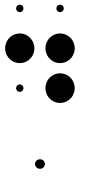


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PyStack Pro

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More Information

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CODMANTRA

FRONTEND USING REACT JS

Module 1: Introduction To Web Development

- Introduction To Web Development. Overview Of Html, Css, Javascript. Setting Up Development Environment.
- Introduction To Html: Structure, Tags, Elements. Creating Basic Html Documents. Part-1
- Introduction To Html: Structure, Tags, Elements. Creating Basic Html Documents. Part-2
- Html Forms And Input Elements. Understanding Form Elements Such As Input, Textarea, Select, Etc. Part-1
- Html Forms And Input Elements. Understanding Form Elements Such As Input, Textarea, Select, Etc. Part-2
- Introduction To Css: Syntax, Selectors. Basic Styling Concepts Including Colors, Fonts, And Backgrounds. Part-1
- Introduction To Css: Syntax, Selectors. Basic Styling Concepts Including Colors, Fonts, And Backgrounds. Part-2
- Css Box Model. Understanding Padding, Margin, Border. Part-1
- Css Box Model. Understanding Padding, Margin, Border. Part-2
- Css Layouts. Introduction To Positioning, Float, And Display Properties.
- Doubt Session 1 (day 11): Clarify Doubts Related To Html And Css Basics.

Module 2: Intermediate Css

- Understanding Flex Containers And Flex Items
- Flexbox Properties And Alignment.
- Learning Grid Containers And Grid Items.
- Grid Properties And Alignment.

- . Introduction To Responsive Web Design Concepts.
- Media Queries And Responsive Strategies.
- . Implementing Responsive Layouts Using Media Queries.
- Media Query Best Practices.
- Transition Properties And Timing Functions.
- Applying Transitions To Various Elements.
- Keyframes, Animation Properties, And Animation Timing.
- Creating Complex Animations.
- Building Responsive Layouts. Applying Css Techniques To Create Responsive Web Pages. Part-1
- Building Responsive Layouts. Applying Css Techniques To Create Responsive Web Pages. Part-2
- Clarify Doubts Related To Intermediate Css.

Module 3: Introduction To JavaScript

- Variables, Data Types. Declaring Variables, Understanding Data Types.
- Conditionals In Javascript. Using If-else Statements
- Loops In Javascript. Implementing For And While Loops.
- Defining Functions And Function Expressions.
- Understanding Function Scope And Block Scope.
- Creating Arrays, Accessing Elements, Array Methods.
- Common Array Methods Like Push, Pop, Shift, Unshift.
- Array Methods Like Map, Filter, Reduce.

- Creating Objects, Accessing Properties, Object Methods.
- Understanding Encapsulation, Inheritance, And Polymorphism.
- Introduction To Dom Manipulation, Selecting Elements- Part-1
- Introduction To Dom Manipulation, Selecting Elements. Part-2
- Dom Manipulation. Implementing Interactive Features Using
- javascript Dom Manipulation. Part-1
- Dom Manipulation. Implementing Interactive Features Using Javascript Dom Manipulation. Part-2
- Clarify doubts related to Advanced JavaScript.

Module 4: Advanced JavaScript

- Overview of ES6+ features.
- Understanding arrow function syntax and benefits.
- Destructuring arrays and objects
- Using spread and rest operators
- Understanding promises and asynchronous programming.
- Working with async functions and await keyword
- Implementing error handling using try-catch blocks.
- Understanding higher-order functions and their usage.
- Understanding closures and their practical applications
- Exploring prototype-based inheritance in JavaScript.
- Introduction to ES6 modules and module syntax
- Making HTTP requests using the Fetch API.
- Building Interactive JavaScript Applications. Integrating advanced JavaScript concepts into interactive web applications. PART-1

- Building Interactive JavaScript Applications. Integrating advanced JavaScript concepts into interactive web applications. PART-2
- Clarify doubts related to Advanced JavaScript.

Module 5: Introduction to React

- Introduction to React: Setting up Environment. Creating a React app.
- JSX Syntax. Understanding JSX syntax and its benefits.
- Components in React. Creating functional and class components
- Props in React. Passing data to components using props
- State in React. Managing component state.
- Lifecycle Methods. Understanding component lifecycle methods
- Handling Events in React. Implementing event handlers in React.
- Conditional Rendering. Rendering components conditionally
- Lists and Keys in React. Rendering lists and using keys
- Forms in React. Handling form submission and form inputs
- Styling React Components. Styling React components using CSS and inline styles
- React Router: Navigation. Implementing client-side routing in React applications.
- Building React Application. Building a complete React application with multiple components and features. PART-1
- Building React Application. Building a complete React application with multiple components and features.PART-2
- Building React Application. Building a complete React application with multiple components and features.PART-3
- Building React Application. Building a complete React application with multiple components and features.PART-4

- Building React Application. Building a complete React application with multiple components and features.PART-5
- Building React Application. Building a complete React application with multiple components and features.PART-6
- Building React Application. Building a complete React application with multiple components and features.PART-7
- Clarify doubts related to React.

MODULE 6: GIT AND GITHUB

- Introduction to Version Control and Git Basics. Understanding version control and basic Git commands.
- Working with Repositories. Creating repositories, adding files, and committing changes
- : Git Workflow: Branching and Merging. Branching, merging, and resolving conflicts
- Collaborating with Git: Remotes and Forks. Working with remote repositories and forks.
- : Introduction to GitHub. Overview of GitHub and its features.
- Using GitHub Issues and Pull Requests. Managing project tasks and contributing code.
- Git Best Practices. Understanding best practices for Git usage.
- Using Git for Version Control. Collaborating on a project using Git and GitHub. PART-1
- Using Git for Version Control. Collaborating on a project using Git and GitHub. PART-2
- Clarify doubts related to Git and GitHub.

Module 7: Advanced React And Final Project

- Context Api And Redux. Managing State In Large React Applications.

- React Hooks. Understanding And Using React Hooks.
- Optimizing Performance In React. Performance Optimization Techniques In React.
- Testing React Applications. Writing Unit Tests For React Components.
- Advanced Styling In React. Styling React Components Using Css in-js Libraries And Other Advanced Techniques.part-1
- Advanced Styling In React. Styling React Components Using Css in-js Libraries And Other Advanced Techniques.part-2
- Advanced Styling In React. Styling React Components Using Css in-js Libraries And Other Advanced Techniques.part-3
- Advanced Styling In React. Styling React Components Using Css in-js Libraries And Other Advanced Techniques.part-4
- Advanced Styling In React. Styling React Components Using Css in-js Libraries And Other Advanced Techniques.part-5
- Advanced Styling In React. Styling React Components Using Css in-js Libraries And Other Advanced Techniques.part-6
- Working On The Final Project Incorporating Advanced React Concepts And Best Practices.part-1
- Working On The Final Project Incorporating Advanced React Concepts And Best Practices.part-2
- Working On The Final Project Incorporating Advanced React Concepts And Best Practices.part-3
- Project Presentation And Review. Presenting The Final Project And Receiving Feedback
- Final Doubt Clearing Session And Project Presentation.

PYTHON

Introduction to Python

- Overview of Python
- Installing Python
- Basic Syntax and Data Types
- Python syntax basics: variables, data types, and operators

Control Flow

- Conditional statements: if, elif, else
- Looping constructs: for, while
- Break and continue statements

Data Structures and Collections Datatype

- Conditional statements: if, elif, else
- Looping constructs: for, while
- Break and continue statements

Functions and Modules

- Defining Functions
- Parameters and Arguments
- Returning Values
- Lambda Functions
- Map, Filter
- Modules and Packages

Object-Oriented Programming (OOP)

- Classes and Objects
- Attributes and Methods
- Inheritance and Polymorphism
- Encapsulation and Abstraction

File Handling

- Reading, Writing Files, Append and Delete
- Working with CSV and JSON Files

Error Handling

- Exceptions and Errors
- Try-Except Blocks
- Finally Block

Error Handling

- Exceptions and Errors
- Try-Except Blocks
- Finally Block

Multithreading

- Threading Module
- Thread Creation
- Starting and Joining Threads
- Thread Synchronization
- Daemon Threads

DJANGO

Introduction to Django

- Overview of Django framework
- Installing Django
- Setting up a Django project

Django Views

- Creating Views
- Function-Based Views (FBVs) vs. Class-Based Views (CBVs)
- URL Mapping
- Django messages

Templates

- Django Template Language (DTL)
- Template Inheritance
- Jinja Tags
- Context Data

Django Models

- Creating Models
- Fields and Field Options
- Migrations and Migrate
- Using Foreign key
- Custom User Model

Forms

- HTML Forms
- Django Forms
- Form Validation

Django Admin

- Overview of Django Admin interface
- Customizing Django Admin

Django ORM

- QuerySets
- Filtering and Get, All Querying Data
- Aggregation and Annotations

Authentication and Authorization

- User Authentication
- Permissions and User Roles

RESTful APIs with Django REST Framework

- Introduction to REST APIs
- Setting up Django REST Framework
- Creating RESTful endpoints
- Api Using and Integration

Capstone Project Development

Deployment

- Preparing Django application for deployment
- Deploying Django application on platforms PythonAnywhere