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Python And React

— FULL STACK INTERNSHIP —

python™

django

heroku

REST API

PYTHON FULL STACK AND REACT

INTRO TO WEB DEVELOPMENT

- What is web development?

- How websites work?

- Advantages of learning web development

- History of web development

- Tasks and Projects Overview

DATABASE (MySQL)

- Introduction

- Database

- CREATE, ALTER, DELETE, DROP tables

- INSERT, UPDATE, DELETE table data

- WHERE condition

- LEFT JOIN, RIGHT JOIN, INNER JOIN

- INDEXING IN DATABASES

WEB TECHNOLOGIES

- What is HTML?

- Structure of Webpage

- HTML Tags

PYTHON FULL STACK AND REACT

WEB TECHNOLOGIES

- What is HTML?

- Structure of Webpage

- HTML Tags

- Adding and formatting texts, title

- Lists Ordered/Unordered

- Images, Forms, Links, Tables

- Iframes, Videos, Anchor tags

- HTML Divs, CSS Introduction

- Inline vs Internal vs External styling

- CSS Display

CSS ADVANCED

- CSS Backgrounds, Borders, Margins

- CSS Font Styling, Stylings Lists

- Styling Tables, Forms

- Gradients, Font Awesome

- Tool tips, Buttons

- Transitions, Transformation, Animations

- Box sizing, Flex, Grid

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BOOTSTRAP

- Bootstrap containers

- Tables, Images, Colors

- Alerts, Buttons

- Spinners, Cards

- Pagination, Drop Down

- Carousel

- Bootstrap grid systems

- Bootstrap grid system-Advanced

JavaScript

- Introduction

- Syntax

- External and Internal using

- Variables, Operators, Functions

- Events, Comparison, Condition, Loops

JQUERY

- JQuery install

- JQuery syntax

- JQuery selector

- JQuery events

PYTHON FULL STACK AND REACT

Python Introduction

- short history
- introduction
- Features
- Python Installation
- Python Interpreter
- How to Run Python
- Variable and Data Types
- Numbers-strings-Lists-Tuple-set-Dictionary
- Operators
- Arithmetic Operations

Looping

- For loop
- For loop with else
- While Loop
- Nested

Conditional Statements

- For loop
- if
- if..else
- if..elif..else
- Nested

Control Statements

- Break

- Continue

- pass

Comprehensions

- List

- set

- Tuple

- Dictionary

Functions

- Definition

- Calling

- Arguments

- Lambda Functions

- Recursive Functions

- Functions Returning values

Modules

- Creating Modules

- Import Statements

- packages

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File Handling

- Opening,

- Reading

- Writing

- Closing

- Renaming

- Deleting

Exception Handling

OOPS Concept

- class and objects

- Inheritance,Destructors

- Encapsulation,Data Hiding

- Method overriding

- Polymorphism

- Regular Expressions

PYTHON FULL STACK AND REACT

Django

- Features
- Architecture
- Installation
- templates
- Models and Forms
- Create and Read(CRUD operations)
- Update and Delete(CRUD operations)
- Registeration and Login,Django Administration
- Database Connection(Sqlite) and Working

Deploy a Django Project on Heroku

- Using Git
- Heroku Cloud Platform
- Testing

Django Rest Framework

- Introduction to Rest API
- Working with JSON files
- Serialization
- Class based views
- API Permissions
- API request methods
- Understating response objects and headers Using Postman
- Creating API endpoints in Django web application
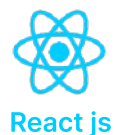
Introduction to React JS

- Overview of ReactJS

- Understanding Single Page and Multi-Page Applications

- Installation

- Create a new project

- Folder Structure of React Application

- React - Hello World

- Running the app Server

JSX & Components

- React component (Func & class)

- Working with React.createElement

- Component architecture

- Component lifecycle

- Nested components

- JSX

Working with state, Props and rendering list

- State

- Passing data to component using props

- Conditional rendering

- React lists

- Passing Key

- Using map function to iterate on arrays to generate elements.

- Importing components from other files

Event Handling in REACT

- React event System

- Basic Event Handling

- Binding Event Handlers

- Passing arguments to event handlers
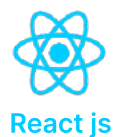
- Methods as prop

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Styling and Application Layout

- Inline Styling

- CSS Stylesheet

React Hooks

- useState

- useEffect

- useContext

- useCallback

- useRef

- useMemo

- useReducer

- useImperativeHandle

- useLayoutEffect

- custom Hooks

Working with Forms and Contents

- Different Form Concepts

- Controlled components

- Uncontrolled components

- Using react ref prop to get access to DOM element

Router

- Setting up react-router

- Understand routing in single page applications

Redux

- Install redux

- Actions, Reducer function, Dispatch

- Store

PROJECT

- Designing

- Prototyping

- Coding

- Test & Debugging

- Deploying

CAPSTONE PROJECT

- Designing

- Prototyping

- Coding
    Integration with Chat GPT

- Test & Debugging

- Deploying

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कौशल भारत - कुशल भारत

ISO
9001:2015

Python and React Tech Stack

python™

django

tkinter

heroku

MySQL

REST API

React js

Our interns Who Got Placed in Last 4 Months

Arya
React js Developr

Midhun
UI/UX Designer

Prasana
UI/UXI Designer

Sandhya
Front End Developer

Zamil
Flutter developer

Silpa
Python DJANGO Developer

Rishna
PHP Developer

Sajana
PHP Developer

Deepak
Python DJANGO

Thushara
Python DJANGO

Reshma
Python Developer

Drishya
UI/UX Designer

Vineetha
Python Developer

Muhammad Anshif
Flutter developer

Raniya
Mobile app developer

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