



FULL-STACK PYTHON

Duration-6 Months

Unlock the power of Python with KDN
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INTRODUCTION

Python full-stack development involves using Python as the primary language to build both the front-end (client side) and back-end (server side) components of web applications. This means a Python full-stack developer possesses the skills to manage the entire application development process, from user interface design to server logic and database management.



BASIC-PYTHON

- Introduction
- Keyword
- Identifiers
- Variables
- Data-Type
- Typecasting
- Summary of Datatype
- Memory Management in Python
- Operator
- Math Module(Mathematical functions)
- Input and Output Statements
- Flow Control
- Conditional Statements
- Loops
- Break and Continue
- String
- List
- Tuple
- Set
- Dictionary
- Function



ADVANCE-PYTHON

- Function Decorator
- Generator
- Module
- Package
- OOPS Concept
- Types of Variable
- Types of method
- Class



- Object
- Inheritance
- Polymorphism
- Abstraction
- Encapsulation
- Exception Handling
- Regular Expression
- Multithreading
- File Handling



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DIJANGO - FRAMEWORK

- Django Introduction
- Django Setup
- Django Apps
- Views and URL Mapping
- Templates in Django
- Models and Database
- Django Admin
- Django Authentication
- Django REST API
- CRUD operations.

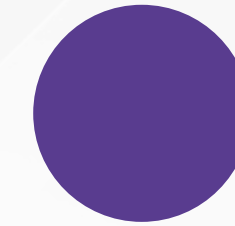
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FRONT-END



HTML



- HTML tags and Attributes
- Links , images, lists, Tables
- HTML Forms
- Frames and Nested Frames



CSS



- CSS Tutorial
- CSS Properties
- CSS Advance
- CSS Design

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BOOTSTRAP

- Bootstrap Introduction
- Bootstrap Advance

JAVASCRIPT

- JavaScript Introduction
- JavaScript Objects
- JavaScript OOPS
- JavaScript Events
- JavaScript Handling



REACT

- Setting up React environment ,Create React App
- Hello World , Components , JSX
- Functional vs class components , Props
- State , Lifecycle Method
- Hooks – useState, useEffect, useContext
- Event Handling
- Forms – controlled components, submission, Validation
- Conditional Rendering– if, ternary, &&
- Lists and Keys
- Importance of Keys
- Styling – CSS, CSS modules, CSS-in-js
- React Router – setup, routes, parameters
- Redux – setup, actions, reducers
- Error handling , debugging, optimization

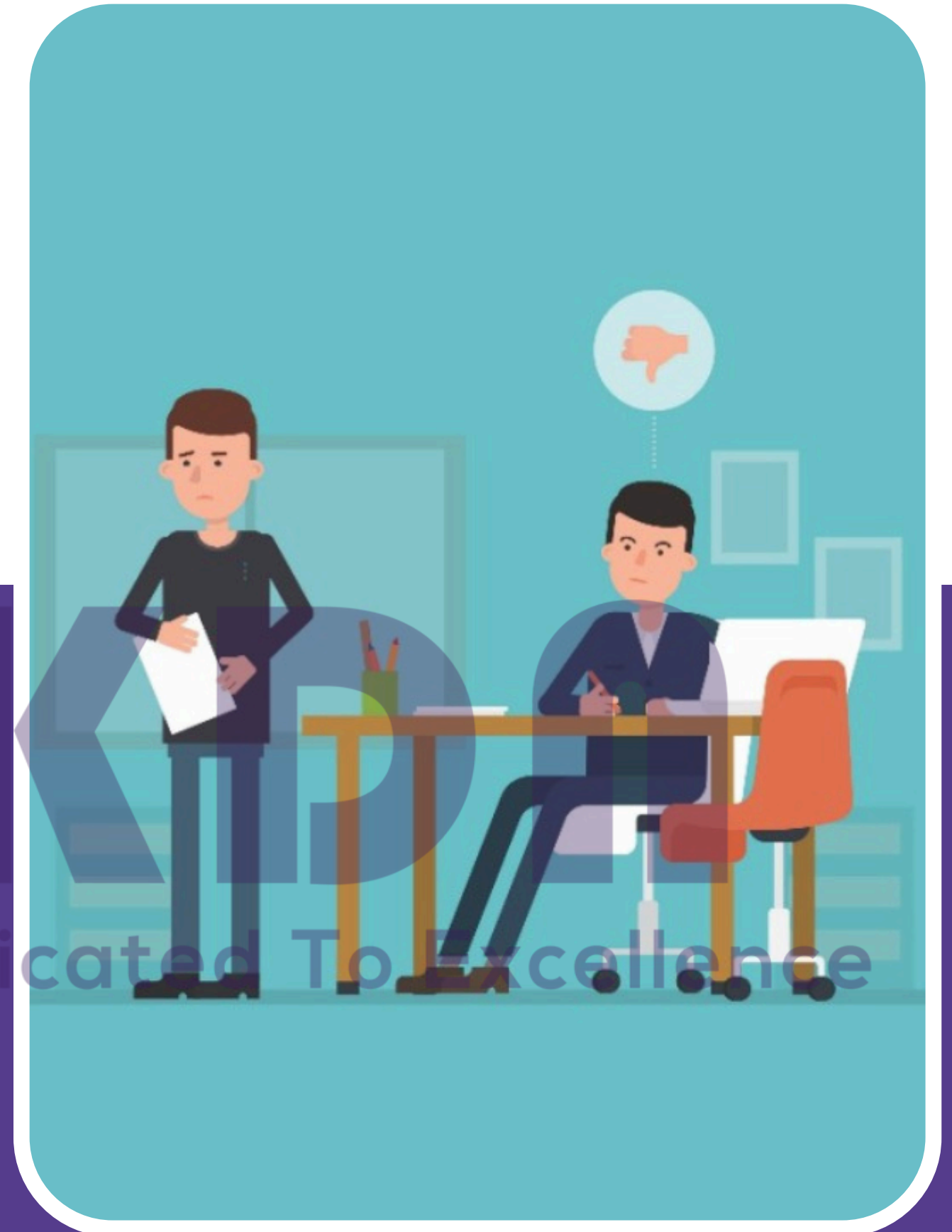
BASIC SQL

- Introduction DBMS & RDBMS.
- Retrieving Data using the SQL SELECT statement.
- Restricting and sorting Data .
- Using single-row functions to customize Output.
- Using Conversion functions and conditional Expressions .
- Reporting aggregated data using the group functions .
- Displaying data from multiple Tables using Join.
- Using Sub-Queries.
- SET Operators , Set operator Types Union, Union All , Minus, Intersect.
- DDL Commands.
- Manipulating Data Using DML Commands.
- TCL commands, ACID Rule.
- Data Validation using Constraints.



FASTAPI

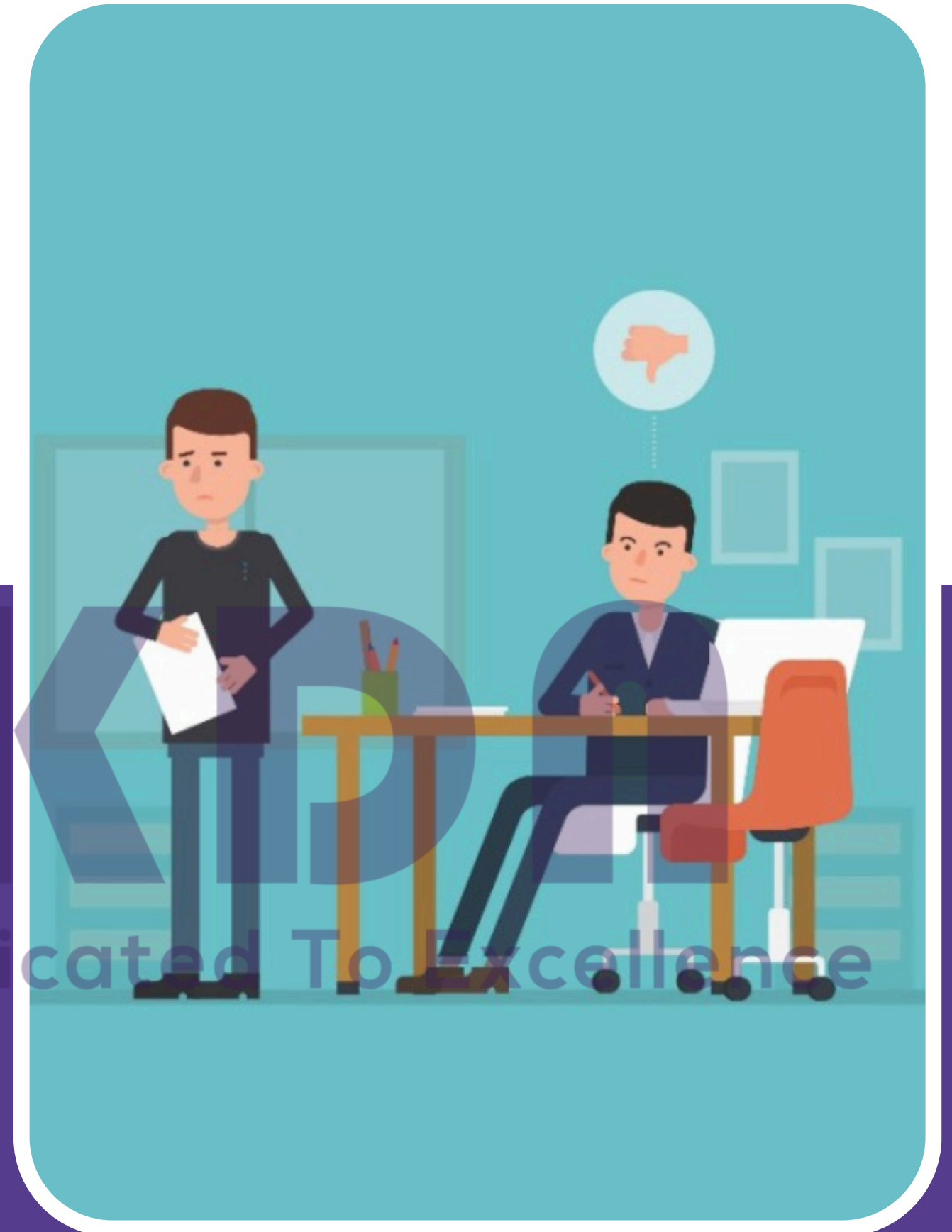
- introduction.
- Background Tasks with Celerly &
- Redis.
- Caching With Redis.



FLASK

introduction.

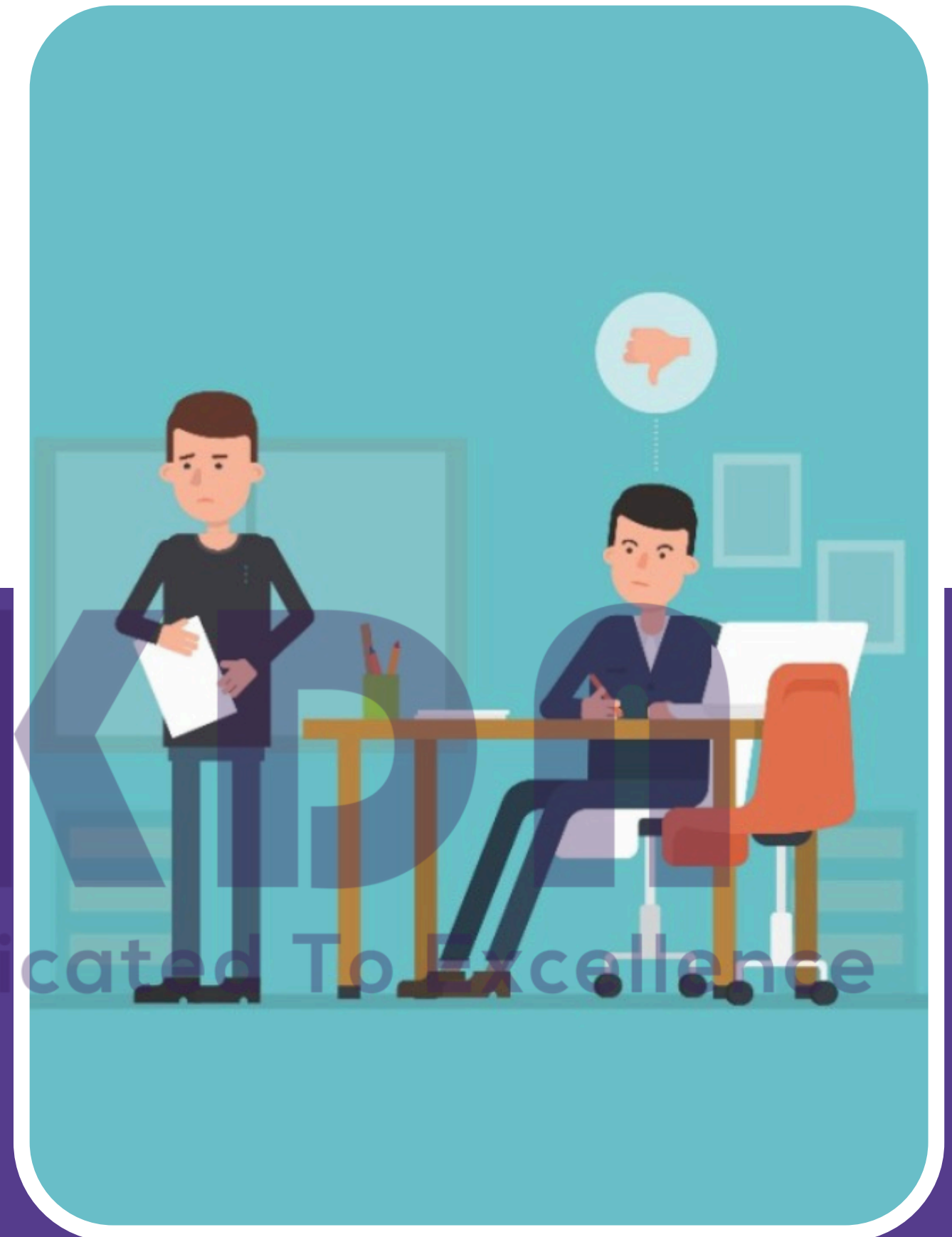
- Flask Basics.
 - Jinja2 Templating.
 - Flask +sqlalchemy : CRUD
- Building RestAPI with Flask.
Authentication In Flask.



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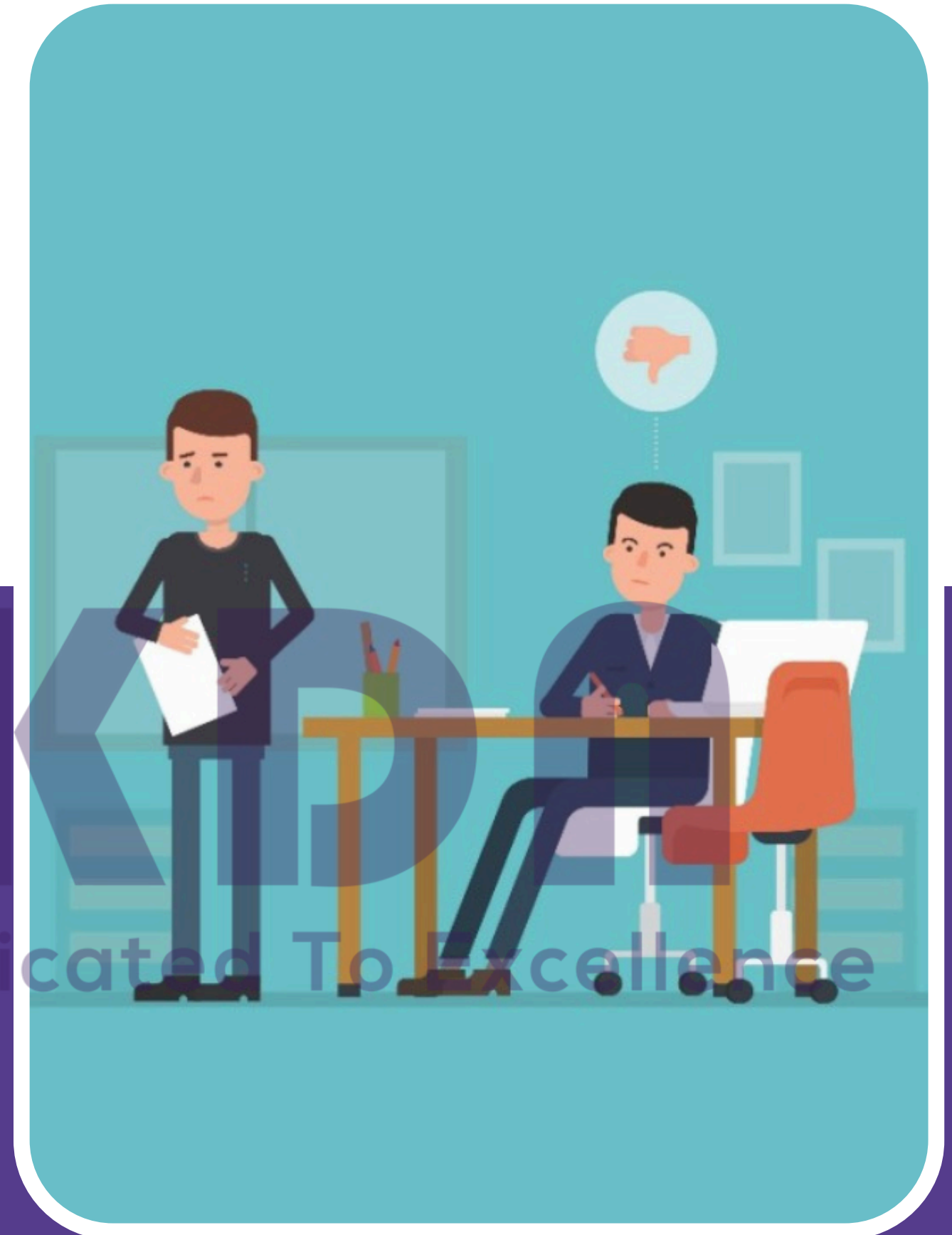
CAPSTONE PROJECT & INTERVIEW PREPARATION

- Project Guidance by Industry Experts.
- Git and Github .
- CV Building.
- Mocks.



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