



CJC
Complete Java Classes
-by Kunal Sir

PYTHON

django

REST

framework

SYLLABUS



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Complete Java Classes,

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Django Syllabus

BackEnd Framework

Django Framework:-

Basic of Django Framework & its uses.

Installation and setting up Django.

Django with PyCharm CE.

Virtual Environments.

Templates in Django & Template Inheritance

Context in Django

Static Files in Django.

Syntax and URL.

Routing in Django.

Request/Response Architecture in Django.

Models

Relationships in Models

Handling various Databases in Django

Django-ORM

Queries of Django-ORM

Function-based Views.

Class-based Views.

Forms - HTML, Model & Django Forms.

Crispy Forms

CRUD Operations using Model Forms

Form Validation

Custom user models.

Cookies & Session in Django.

Middlewares in django

User Authentication(Login, Logout, Sign Up)

Mini Project

```
package com.ds.ucd.be.becore.solr;
import ...
public final class LocationUtils {
    /**
     * Parses Point from it's String representation. Location, as 2 double values split
     * @param locationString - String that represents location
     * @return org.springframework.data.solr.core.model.Point instance
     */
    public static Point parseLocation(String locationString) {
        Preconditions.checkNotNull(locationString, errorMessage: "Location String should
        locationString = locationString.trim();
        if (locationString.contains(",")) {
            locationString = locationString.replaceAll(regex: ",", replacement: "");
        }
        if (locationString.contains(" ")) {
            locationString = locationString.replaceAll(regex: " ", replacement: "");
        }
        String[] location = locationString.split(regex: ",");
        Preconditions.checkNotNull(expression: location.length >= 2, errorMessage: "Location
        double lat = Double.parseDouble(location[0]);
        double lon = Double.parseDouble(location[1]);
        return new Point(lat, lon);
    }
}
```



2] API & API Framework

API(Application Programming Interfaces):-

Introduction

Serialization & Deserialization

Python JSON Module

API

Web API / Web Services

REST & RESTful API

Basics of SOAP API, REST API

Django REST Framework:-

Introduction & Installation

Requests

Response

API using api_view decorator and APIView

Class Serializer

ModelSerializer

CRUD using DRF

API using GenericAPIView and mixins

View Sets

Routers

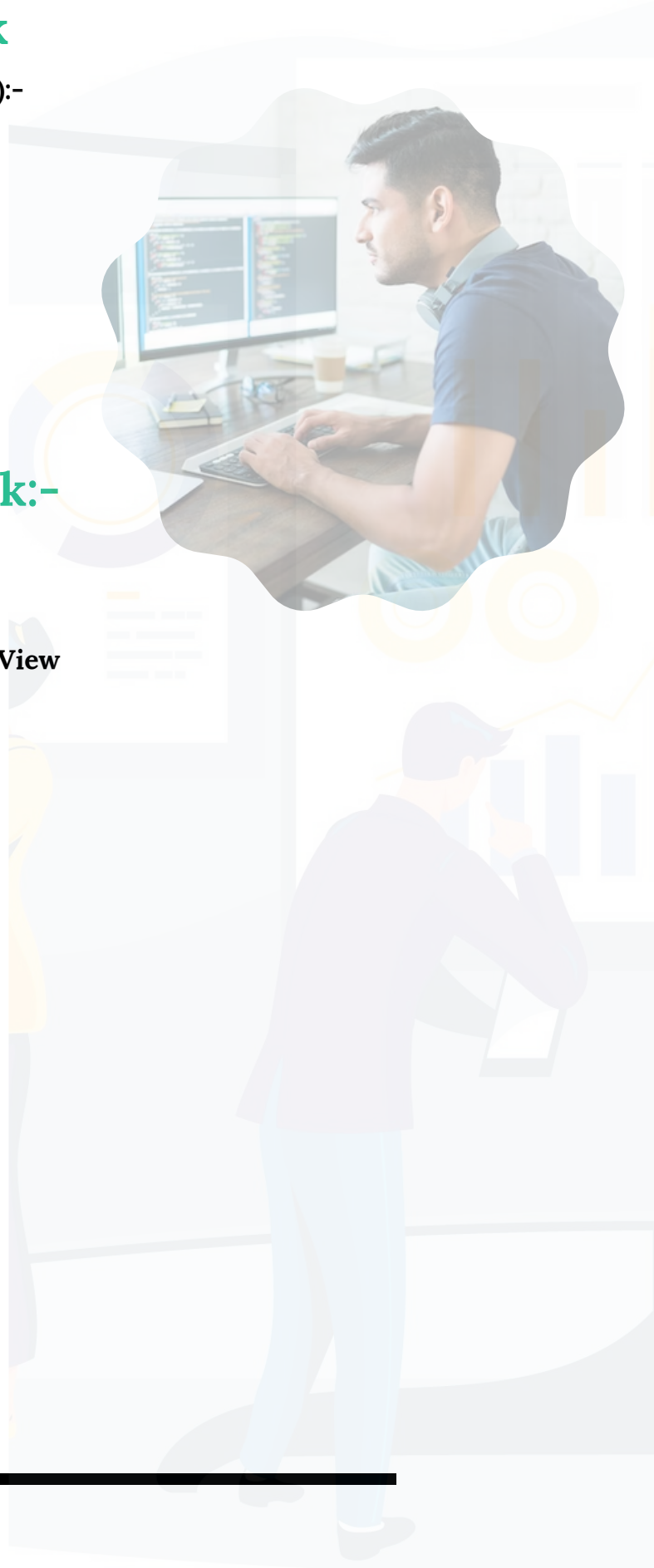
Authentication and Permissions

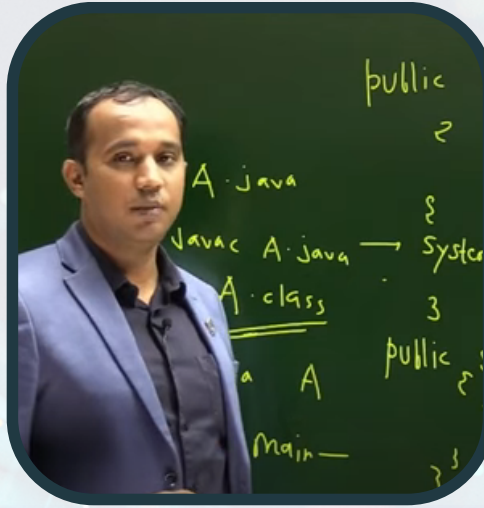
Throttling

Pagination

Testing API using Postman

Mini Project





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