

## Week-6

### 1) What is html form?

An HTML form is used to collect user input. The user input is most often sent to a server for processing.

Syntax:

```
<form>  
.  
form elements  
.  
</form>
```

### 2) what are the Input Types in forms?

Sno	Types	Description
1	Button	A push button with no default behavior displaying the value of the <u>value</u> attribute, empty by default.
2	Check box	A check box allowing single values to be selected/deselected.
3	Date	A control for entering a date (year, month, and day, with no time). Opens a date picker or numeric wheels for year, month, day when active in supporting browsers.
4	submit	A button that submits the form.

5	Reset	A button that resets the contents of the form to default values. Not recommended.
6	Radio	A radio button, allowing a single value to be selected out of multiple choices with the same <u>name</u> value.

**Aim:** To create a Resume form that take Details from user

**Code:**

```

<html>
  <head>
    <title>resume</title>
  </head>
<body>
<center>
<h1><u>Resume</u></h1>
</center>
<div class="container">
<form class="resumeform"
action="C:\Users\itadmin\Desktop\action.html" target="_self"
autocomplete="on">
<label for="fname"><b>First name:</b></label><br>
  <input type="text" id="fname" ><br>
<label for="lname"><b>Last name:</b></label><br>
  <input type="text" id="lname"><br>
<label for="gender"><b>Gender:</b></label><br>
  <input type="radio" id="ma" name="gender">Male<br>
  <input type="radio" id="fe" name="gender">Female<br>
  <input type="radio" id="ot" name="other">Other<br>
<label for="email"><b>Email:</b></label><br>
  <input type="text" id="email" ><br>
<label for="add" ><b>Address:</b></label><br>
<textarea id="add" name="address" rows="10"
cols="50"></textarea><br>
<label for="phno"><b>phone number:</b></label><br>
  <input type="text" id="phno"><br>
<label for="branch">Choose a Branch:</label><br>
<select name="Branch" id="branch">
  <option value="IT">IT</option>

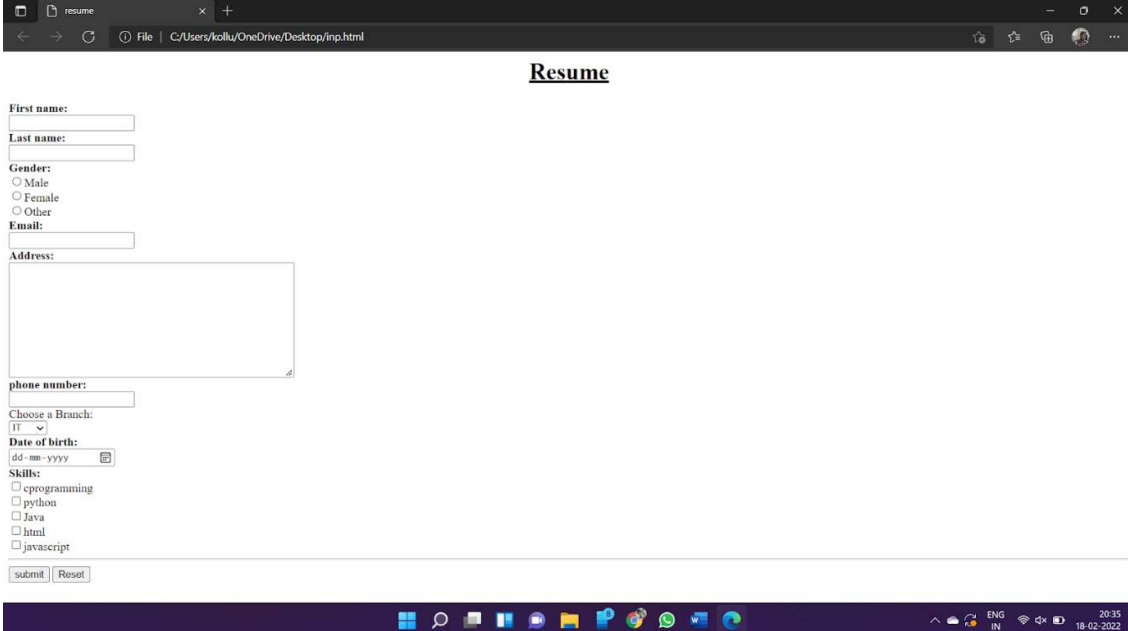
```

```

    <option value="CSE">CSE</option>
    <option value="EEE">EEE</option>
    <option value="ECE">ECE</option>
</select><br>
<label for="dob"><b>Date of birth:</b></label><br>
<input type="date" id="dob"><br>
<label for="skills"><b>Skills:</b></label><br>
<input type="checkbox" id="skills">cprogramming<br>
<input type="checkbox" id="skills">python<br>
<input type="checkbox" id="skills">Java<br>
<input type="checkbox" id="skills">html<br>
<input type="checkbox" id="skills">javascript<br>
<hr>
<input type="submit" value="submit">
<input type="reset" value="Reset">
</form>
</div>
</body>

```

## Output:-



The screenshot shows a web browser window with the address bar displaying 'C:/Users/kollu/OneDrive/Desktop/inp.html'. The page title is 'Resume'. The form contains the following fields and controls:

- First name:** Text input field.
- Last name:** Text input field.
- Gender:** Radio button group with options: Male, Female, Other.
- Email:** Text input field.
- Address:** Large text area.
- phone number:** Text input field.
- Choose a Branch:** Dropdown menu with 'IT' selected.
- Date of birth:** Date picker showing 'dd-mm-yyyy'.
- Skills:** Checkboxes for 'cprogramming', 'python', 'Java', 'html', and 'javascript'.
- Buttons:** 'submit' and 'Reset' buttons at the bottom.

The Windows taskbar at the bottom shows the date as 18-02-2022 and the time as 20:35.

# Week-7

## 1. Create a website using Html

Code:

Login.html:

```
<!DOCTYPE html>
<html>
<head>
<title>
speedon car rental
</title>
<link rel="icon" href="./images/back3.jpg" type="image/icon type">
<style>
```

```
.header
{
background-color:#00ff00;
padding: 5px;
text-align: center;
}
.navbar
{
position: sticky;
top: 0;
overflow:hidden;
background-color: red;
padding-bottom: 5px;
}
.navbar a
{
color: black;
padding: 20px;
text-decoration: none;
}
.navbar a.right
{
float: right;
}
.navbar a:hover
{
background-color: #ddd;
color: black;
}
```

```
.grid-container
{
  padding: 10px;
  padding-left:30px;
  background-image: url('./images/back9.jpg');
  background-size: 100% 700px;
  background-repeat:no-repeat;
  background-attachment:fixed;
  font-family:times new roman;
}
```

```
.grid-container1
{
  display: grid;
  grid-template-columns: 50% 49.5%;
  grid-gap: 10px;
  padding: 10px;
  padding-right:10px;
  height:auto;
  font-size:30px;
}
```

```
.grid1div
{
  background-image: url('./images/back10.jpg');
  background-repeat:no-repeat;
  background-size:100.5% 100.5%;
  text-align:left;
  height:auto;
  padding:10px;
}
```

```
.grid-container1 > div
{
  border: 2px solid black;
  font-size: 30px;
}
```

```
input[type=text]
{
  width: 30%;
  padding: 12px;
  border: 3px solid orange;
  border-radius: 4px;
```

```
    box-sizing: border-box;
    margin-top: 6px;
    margin-bottom: 16px;
    resize: vertical;
}
input[type=option], select
{
    width: 13%;
    padding: 12px;
    border: 3px solid orange;
    border-radius: 5px;
}
input[type=date]
{
    width: 25%;
    padding: 12px;
    border: 3px solid orange;
    border-radius: 4px;
    box-sizing: border-box;
    margin-top: 6px;
    margin-bottom: 16px;
    resize: vertical;
}
input[type=search]
{
    width: 25%;
    padding: 12px;
    border: 3px solid orange;
    border-radius: 4px;
    box-sizing: border-box;
    margin-top: 6px;
    margin-bottom: 16px;
    resize: vertical;
}
input[type=time], textarea
{
    width: 25%;
    padding: 12px;
    border: 3px solid orange;
    border-radius: 4px;
    box-sizing: border-box;
    margin-top: 6px;
    margin-bottom: 16px;
```

```

    resize: vertical;
}
.grid-container2
{
    display: grid;
    grid-template-columns: 50% 50%;
    grid-gap: 15px;
    background-image: url('./images/back11.jpg');
    background-repeat:no-repeat;
    background-size:100.5% 100.5%;
    text-align:left;
    height:auto;
    padding:10px;
    padding: 30px;
    padding-right:10px;
}

.grid-container2 > div
{
    border: 1px solid black;
    font-size: 30px;
}
.button
{
    border: 3px solid black;
    padding: 10px;
    background-color: powderblue;
    width: :auto;
    height:auto;
}
.button:hover
{
    background-color:green;
    color:white;
}
.border
{
    border:5px solid black;
    border-radius: 5%;
    padding:50px;
    padding-top:5px;
    padding-bottom:5px;
    width:210px;
}

```

```
        height:405px;
    }
    .border1
    {
        border:3px solid black;
        width:5px;
        height:10px;
    }
```

```
.callout
{
    position: fixed;
    bottom: 35px;
    right: 20px;
    margin-left: 20px;
    max-width: 300px;
}
```

```
.callout-header
{
    padding: 25px 15px;
    background: #555;
    font-size: 30px;
    color: white;
}
```

```
.callout-container
{
    padding: 15px;
    background-color: #ccc;
    color: black
}
```

```
.closebtn
{
    position: absolute;
    top: 5px;
    right: 15px;
    color: white;
    font-size: 30px;
    cursor: pointer;
}
```

```
.closebtn:hover
```



```

{
  color: yellow;
}
.footer
{
  border:2px solid black;
  padding: 20px;
  text-align: center;
}
.navbar1
{
  overflow:hidden;
  background-color: red;
  height:50px;
  font-size:20px;
  padding-bottom: 5px;
  padding-top:40px;
}
.navbar1 a
{
  color: black;
  padding: 20px;
  text-decoration: none;
}
.navbar1 a:hover
{
  background-color: #ddd;
  color: black;
}

</style>

</head>
<body style="font-family:times new roman";>
<marquee class="header" behavior="scroll" direction="left"
scrollamount="10"><h1 style="color:white"> <><><><>WELCOME TO
SPEEDON CARS<><><><> BOOK YOUR CAR WITH
US<><><><></h1>
</marquee>
<div class="callout">
  <div class="callout-header">IMPORTANT NOTE</div>

```

```
        <span class="closebtn"
onclick="this.parentElement.style.display='none';">x</span>
        <div class="callout-container">
            <p> if there was any case on vehicle or happened any accident when
our car car is with you then you are the total responsibility </p>
        </div>
    </div>
```

```
<div class="navbar">
    
    <a href="https://www.tripadvisor.in/" target="_blank"
class="right"><strong>POPULAR LOCATIONS</strong></a>
    <a href="/managebooking.html" target="_blank"
class="right"><strong>MANAGE BOOKING</strong></a>
    <a href="/login-form.html" target="_blank" class="right"><strong>LOG
IN</strong></a>
    <a href="/sign-up-form.html" class="right" target="_blank"
><strong>SIGN UP</strong></a>
    <a href="/index.html" class="right" ><strong>HOME</strong></a>
</div>
```

```
</br></br>
```

```
<div class="grid-container">
    <div style="font-size:30px;"> </div>
    <div id="form1">
```

HIRE A CAR BY SELECTING BELOW THINGS:-

```
</br></br>
```

<b> CAR COMPANY: </b> </br>

<select name="Company" id="subject">

<option value="" selected="selected">Select car

company</option>

</select>

</br></br>

<b> CAR MODEL: </b> </br>

<select name="Model" id="topic">

<option value="" selected="selected">select your

car model</option>

</select>

</br></br>

<b> CAR PRICE:</b> </br>

<select name="Price" id="chapter">

<option value="" selected="selected">click here

to check and select your car price</option>



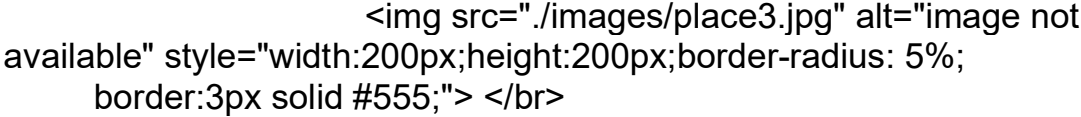
```

        <input type="search" placeholder="Search.."
name="search"> </br>
        <div class="footer">
            <h2 STYLE="font-size:20px">RATE US AND
SHARE YOUR EXPERIENCE WITH US</h2>
            <textarea cols="80" rows="5"
value="address"> </textarea>
        </div>
    </div>
</div>
<div>
    <div class="grid-container2">
        <strong style="font-size:30px;padding-left:5px;">
SOME OF OUR POPULAR LOCATIONS: </u></STRONG> </br>
        <div class="border">
            <p><strong> <center> BANGALORE </center>
</strong> <p>
                </br>
                <a href="https://www.tripadvisor.in/Attractions-
g297628-Activities-Bengaluru_Bangalore_District_Karnataka.html"
target="_blank" style="align:right">click here</a> to know more
information
            </div>

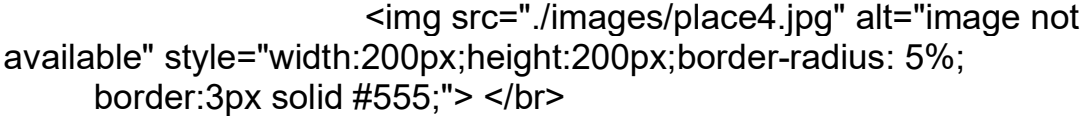
            <div class="border">
                <p><strong> <center> COIMBATORE </center>
</strong> <p>
                     </br>
                    <a href="https://www.tripadvisor.in/Attractions-
g297675-Activities-Coimbatore_Coimbatore_District_Tamil_Nadu.html"
target="_blank" style="align:right">click here</a> to know more
information
                </div>

                <div class="border">
                    <p><strong> <center> MUNNAR </center>
</strong> <p>

```

 [click here](https://www.tripadvisor.in/Tourism-g303881-Munnar_Idukki_District_Kerala-Vacations.html) to know more information

**<center> TIRUPATHI </center>**

 [click here](https://www.tripadvisor.in/Tourism-g297587-Tirupati_Chittoor_District_Andhra_Pradesh-Vacations.html) to know more information

[click here](https://www.tripadvisor.in/) for our popular locations

[PRIVACY POLICY](/privacy-policy.pdf)  
[TERMS & CONDITIONS](/terms-and-conditions.pdf)  
[ABOUT US](/aboutus.html)

**OUR TRAVEL PATNER**

```

        
        <a href="https://www.tripadvisor.in/" target="_blank" > <b>click
here to visit tripadvisor </b></a>
        </br></br>
        <strong> <span style="margin-left:40%;font-size:25px;"> BOOK
YOUR HOTEL THROUGH TRIP ADVISOR </span> </strong>
        </br></br>
</div>
</br></br>
<div class="footer" style=" background-color:skyblue;color:white;">
        <p>
                <p style="text-align: center;font-size: 30px">
Serviceable Cities</p> </br>
                <pre style="text-align: justify;font-size: 20px">
                        Car Rental in Bangalore          Car Rental in
Pune
                        Car Rental in Hyderabad          Car Rental in
Kolkata
                        Car Rental in Mumbai             Car Rental in
Ahmedabad
                        Car Rental in Delhi-NCR           Car Rental in
Bhubaneswar
                        Car Rental in Chennai             Car Rental in
Chandigarh
                </pre>
        </br>
                <pre style="text-align:justify;font-size: 20px">
                        Car Rental in Coimbatore          Car Rental in
Nagpur
                        Car Rental in Jaipur              Car Rental in
Surat
                        Car Rental in Kochi               Car Rental in
Tirupati
                        Car Rental in Mangalore           Car
Rental in Trivandrum
                        Car Rental in Mysore              Car Rental in
Vadodara
                        Car Rental in Vizag               Car Rental in
Vijayawada
                </pre>
        </p>
</div>

```

</br></br>

<script>

var subjectObject =

```
{
  "SUZUKI":
  {
    "swift": ["12rupees/km"],
    "baleno": ["12rupees/km"],
    "Dzire": ["13rupees/km"],
    "breeza": ["15rupees/km"],
    "ertiga": ["16rupees/km"],
    "XL6": ["25rupees/km"],
  },
  "HONDA":
  {
    "Amaze": ["14rupees/km"],
    "newcity": ["20rupees/km"],
    "jazz": ["15rupees/km"],
    "WR-V": ["16rupees/km"],
  },
  "MAHINDRA":
  {
    "Thar": ["15rupees/km"],
    "XUV300": ["13rupees/km"],
    "Bolero": ["20rupees/km"],
    "scorpio": ["25rupees/km"],
    "XUV500": ["28rupees/km"],
    "Marazzo": ["22rupees/km"]
  },
  "TATA":
  {
    "Nexon": ["14rupees/km"],
    "Safari": ["18rupees/km"],
    "Altroz": ["12rupees/km"],
    "Harrier": ["25rupees/km"],
    "Tigor": ["12rupees/km"],
  },
  "FORD":
  {
    "EcoSport": ["14rupees/km"],
    "Figo": ["12rupees/km"],
    "FreeStyle": ["13rupees/km"],
    "Aspire": ["13rupees/km"],
  }
}
```

```

},
"RENAULT":
{
  "Kwid": ["11rupees/km"],
  "Triber": ["12rupees/km"],
  "Kiger": ["13rupees/km"],
  "Duster": ["20rupees/km"],
},
"HYUNDAI":
{
  "Creta": ["16rupees/km"],
  "Venue": ["14rupees/km"],
  "i20": ["13rupees/km"],
  "Grand i10 Nios": ["12rupees/km"],
  "Verna": ["12rupees/km"],
  "Santro": ["12rupees/km"]
},
"TOYOTA":
{
  "Urban Cruiser": ["14rupees/km"],
  "Glanza": ["13rupees/km"],
  "Yaris": ["14rupees/km"],
  "Crysta": ["18rupees/km"],
},
"NISSAN":
{
  "Magnite": ["12rupees/km"],
  "Kicks": ["18rupees/km"],
  "Kicks Facelift": ["15rupees/km"],
}
}
window.onload = function() {
  var subjectSel = document.getElementById("subject");
  var topicSel = document.getElementById("topic");
  var chapterSel = document.getElementById("chapter");
  for (var x in subjectObject) {
    subjectSel.options[subjectSel.options.length] = new Option(x, x);
  }
  subjectSel.onchange = function() {
    //empty Chapters- and Topics- dropdowns
    chapterSel.length = 1;
    topicSel.length = 1;
    //display correct values

```

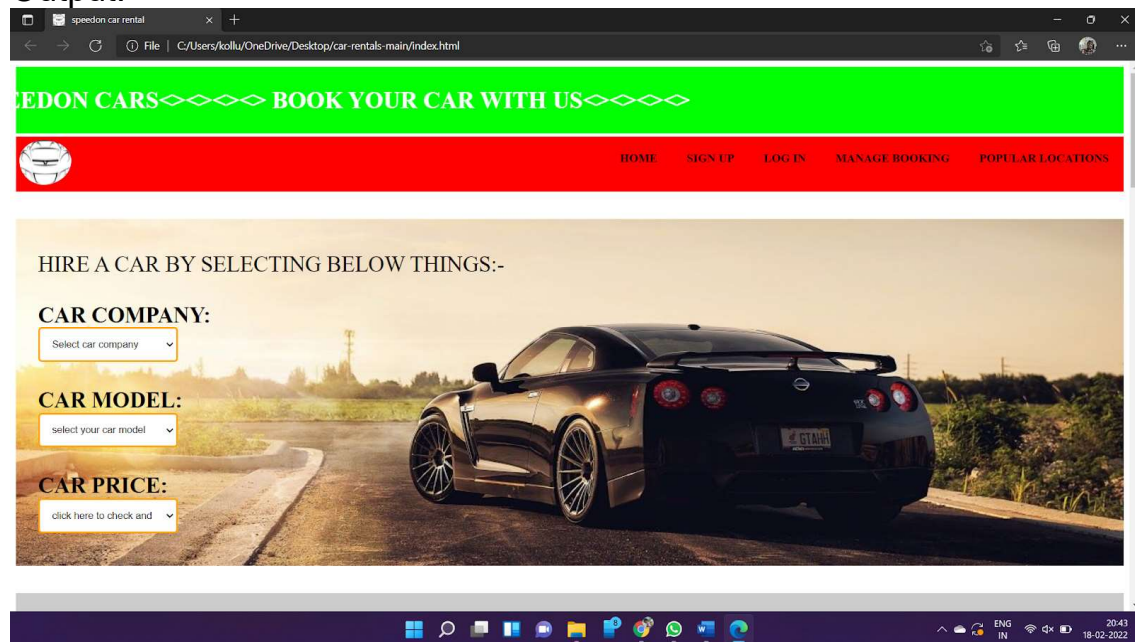


```

    for (var y in subjectObject[this.value]) {
        topicSel.options[topicSel.options.length] = new Option(y, y);
    }
}
topicSel.onchange = function() {
    //empty Chapters dropdown
    chapterSel.length = 1;
    //display correct values
    var z = subjectObject[subjectSel.value][this.value];
    for (var i = 0; i < z.length; i++) {
        chapterSel.options[chapterSel.options.length] = new Option(z[i], z[i]);
    }
}
}
function myfunction()
{
    alert("you options are submitted, the car will be given to you within
24hrs");
}
</script>
</body>
</html>

```

Output:-



## Week -9

1. What is Django, what is the framework that is used to implement Django.

### **DJANGO**

Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design. Built by experienced developers, it takes care of much of the hassle of web development, so you can focus on writing your app without needing to reinvent the wheel. It's free and open source, Ridiculously fast. Django was designed to help developers take applications from concept to completion as quickly as possible reassuringly secure. Django takes security seriously and helps developers avoid many common security mistakes Exceedingly scalable Some of the busiest sites on the web leverage Django's ability to quickly and flexibly scale.

### **FRAMEWORK**

Rich ecosystem

Read Django like a system, developers say. What they mean is that there are many third-party applications that come with Django. These applications can be integrated depending on project requirements. To imagine this better, think of Legos. There are many different Lego blocks. In app development, an authorization "block" or email sending "block" is present in almost every project. Django consists of many applications — such as for authorization and sending emails — that can easily be plugged into a system.

Maturity. Django has been around for 11 years and has gone through stages of significant improvement. A lot of things have been brought to perfection and many new things have been added. Most importantly, when you're trying to figure out how something should work in Django, you can usually find the answer. Thousands of people must have already solved any issue you're dealing with, and you can find a solution provided by the passionate Django community.

Admin panel by default

Admin panels are designed to help you manage your application. A Django admin panel is generated automatically from Python code, whereas creating an admin panel manually would take a lot of time and be absolutely pointless. There's a lot of room for customization in the Django admin panel thanks to third-party applications. Additionally, Django allows you to modify the interface with third-party wrappers and add dashboards unique to your needs Good for SEO

Python is famous for having human-readable code, and that's an advantage if you want your site to rank high in search results. With Django, you can

generate readable website URLs and links using the most relevant keywords and search engine optimization (SEO) best practices.

After all, a domain name is just a “human-readable” string that maps to a “computer friendly” set of numbers, known as an IP address. People fixate on getting the right domain name, but tend to neglect what the URL slug is—

Django can fix that Pluggable

Django is pluggable by nature and can be extended with plugins. Plugins are software components that allow developers to add a specific feature to an app, leaving a lot of scope for customization. There are hundreds of packages to help you add Google Maps, create complex permissions, or connect to Stripe to process payments. And if you need to scale your project in the future, you can unplug some components and replace them with others that meet your current needs Libraries

Every programming language comes with its own set of libraries for solving common tasks. A software library includes prewritten code, classes, procedures, scripts, configuration data, and more. As a rule, a library is added to a program to provide more functionality or to automate a process without manually writing new code. This reduces time to market.

Django allows developers to use libraries when building any project. Some popular libraries include the Django REST framework, which is responsible for building application programming interfaces (APIs); Django CMS, which is designed to manage website content; and Django-allauth, which is an integrated set of Django applications for authentication, registration, account management, and third-party (social) account authentication ORM.Django is valued for its object-relational mapper that helps developers interact with databases.An object-relational mapper (ORM) is a library that automatically transfers data stored in databases such as PostgreSQL and MySQL into objects commonly used in application code.

## **2. What are the prerequisites to implement Django.**

There are many prerequisites to learn Django:

- The basic syntax of the Python
  - Python functions
  - importing external modules
- understanding of Python Path concepts
- conditional operators and loops
- string manipulation operations
- Regular Expression (RE)
- object-oriented concepts
- Learn REST APIs and JSON
- Database Management and SQL queries

### 3. How to install and run Django

Install Django

Django can be installed easily using `pip`.

In the command prompt, execute the following command: `pip install django`.

This will download and install Django.

After the installation has completed, you can verify your Django installation by executing `django-admin --version` in the command prompt.

Use the Django admin console

Create a superuser. You will be prompted to enter a username, email, and password. `python manage.py createsuperuser`.

Start a local web server: `python manage.py runserver`

### 4. Write a very basic program using Django.

```
django-admin startproject hello_world_project
cd hello_world_project/
python manage.py runserver
cd helloworld_project/
python __init__.py
python settings.py
python urls.py
python asgi.py
migrating and testing project
cd hello_world_project
python manage.py migrate
python manage.py runserver
```

### 5. How to create an environment to start a new project in Django.

1. Install Package. First, install `python3-venv` package by using the following command.
2. Create a Directory. `$ mkdir djangoenv. ...`
3. Create Virtual Environment. `$ python3 -m venv djangoenv. ...`
4. Activate Virtual Environment.

### 6. What is the difference between project and app.

A *project* refers to the entire application and all its parts.

An *app* refers to a submodule of the project. It's self-sufficient and not intertwined with the other apps in the project such that, in theory, you could pick it up and plopp it down into another project without any modification. An *app* typically has its own `models.py` (which might actually be empty). You might think of it as a standalone python module. A simple project might only have one app.

For your example, the *project* is the whole website. You might structure it so there is an *app* for articles, an *app* for ranking tables, and an *app* for fixtures

and results. If they need to interact with each other, they do it through well-documented public classes and accessor methods.

The main thing to keep in mind is this level of interdependence between the *apps*. In practice it's all one *project*, so there's no sense in going overboard, but keep in mind how co-dependent two apps are. If you find one app is solving two problems, split them into two apps. If you find two apps are so intertwined you could never reuse one without the other, combine them into a single app.

## Week-10

Aim: Django install and make it work in our systems

Program:

```
After MIDDLEWARE=[
...
]
ROOT_URLCONF = 'second.urls'

TEMPLATES = [
    {
        'BACKEND':
'django.template.backends.django.DjangoTemplates',
        'DIRS': [BASE_DIR/'Templates'],
        'APP_DIRS': True,
        'OPTIONS': {
            'context_processors': [
                'django.template.context_processors.debug',
                'django.template.context_processors.request',
                'django.contrib.auth.context_processors.auth',
                'django.contrib.messages.context_processors.messa
ges',
            ],
        },
    },
]
```

Second(urls.py):

```
urlpatterns = [
    path('admin/', admin.site.urls),
    path("",include('myapp.urls'))
]
```

Myapp(admin.py):

```
from django.contrib import admin
from myapp.models import student
```

# Register your models here.

```
admin.site.register(student)
```

Myapp(apps.py):

```
from django.apps import AppConfig
```

```
class MyAppConfig(AppConfig):
```

```
    default_auto_field = 'django.db.models.BigAutoField'
```

```
    name = 'myapp'
```

Myapp(forms.py):

```
from django import forms
```

```
from myapp.models import student
```

```
class Login(forms.ModelForm):
```

```
    class Meta:
```

```
        model=student
```

```
        fields='__all__'
```

Myapp(models.py):

```
from django.db import models
```

# Create your models here.

```
class student(models.Model):
```

```
    name = models.CharField(max_length=100)
```

```
    number = models.CharField(max_length=100)
```

```
    branch = models.CharField(max_length=100)
```

Myapp(urls.py):

```
from django.urls import path
```

```
from . import views
```

```
urlpatterns=[
```

```
    path('form',views.form_view,name='form_view')
```

```
]
```

Myapp(views.py):

```
from django.shortcuts import render
```

```
from django.http import HttpResponseRedirect
from myapp.forms import Login
```

#Create your views here.

```
def form_view(request):
    objects=Login()
    if request.method=='POST':
        objects=Login(request.POST)
    if objects.is_valid():
        objects.save(commit=True)
    return render(request,'index.html',{'objects':objects})
```

Templates(index.html)

```
<!DOCTYPE html>
<html>
    <body>
        <form method="POST">
            {% csrf_token %}
            {{objects.as_p}}
            <input type="submit" value="Submit"/>
        </form>
    </body>
</html>
```

After completing the codes and saving them, open command prompt.

Command 1:

cd desktop

(where your folder is created)

Command 2:

cd second

(folder name)

Command 3:

python manage.py makemigrations

If any errors in the code, then they will be displayed. Correct the errors and repeat command 3.



If no errors then

Command 4:

`python manage.py migrate`

Command 5:

`python manage.py runserver`

a link will be displayed

copy n paste it in a new tab along with (form)

eg : `http://127.0.0.1:8000/form`

# Week-11

## 1. CRUD operations on the form.

CRUD Meaning: CRUD is an acronym that comes from the world of computer programming and refers to the four functions that are considered necessary to implement a persistent storage application: **create, read, update and delete.**

Letter	Operation	Insert
C	Create	Insert
R	Read	Select
U	Update	Edit
D	Delete	Delete