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 value 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 name value.

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

Code:

```html
<html>
  <head>
    <style>
      .container{
        width:80%;
        max-width: 620px;
        padding: 5px;
        margin-left: 10%;
        margin-right: 10%;
        margin:5%;
        background-color: aquamarine;
        margin-bottom: 150px;
        border: none;
```

```
        }

      </style>

    </head>

<body style="background-color:antiquewhite">

<center>

<h1 style="color:tomato;"><u>Resume</u></h2>

</center>

<div class="container">

<form  clsss="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>
```

</html>

Output:

Week-7

Web Programming

1. Create a website using Html

Code:

Index.html:

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Cricket website</title>
  <link rel="stylesheet" href="style.css">
  <link rel="preconnect" href="https://fonts.googleapis.com">
  <link rel="icon" href="images/ball.jfif">
<link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
<link href="https://fonts.googleapis.com/css2?family=Roboto:ital,wght@0,300;0,400;1,300;1,400;1,700&display=swap" rel="stylesheet">
</head>
<body>
  <section class="header">
    <nav>
      <a href="index.html"><img src="images/logo.png"></a>
      <div class="nav-links">
        <ul>
```

```
            <li><a href="#">Home</a></li>

            <li><a href="#">About</a></li>

            <li><a href="index2.html" target="_blank">Crickters</a></li>

            <li><a href="feedback.html">Feedback</a></li>

        </ul>

    </div>

</nav>

<div class="text-box">

    <h1>One stop cricket website</h1>

    <p>Cricket is the most popular sport around the world this is the
one stop website for all your cricket needs</p>

     <a href="https://blog.decathlon.in/articles/cricket-rules-and-scoring"
class="hero-btn">Visit to know more about cricket rules</a>

    </div>

  </section>

  <section class="footer">

    <h1>History of Cricket</h1>

    <p>The sport of cricket has a known history beginning in the late 16th
century. Having originated in south-east England, it became an established
sport in the country in the 18th century and developed globally in the 19th
and 20th centuries. International matches have been played since the 19th-
century and formal Test cricket matches are considered to date from
1877.</p>

    <div class="space-box">

        <img src="images/cricket.jfif" alt="cricket">
```

<p>Cricket is a bat-and-ball game played between two teams of eleven players each on a field at the centre of which is a 22-yard (20-metre) pitch with a wicket at each end, each comprising two bails balanced on three stumps. The game proceeds when a player on the fielding team, called the bowler, "bowls" (propels) the ball from one end of the pitch towards the wicket at the other end, with an "over" being completed once they have legally done so six times. The batting side has one player at each end of the pitch, with the player at the opposite end of the pitch from the bowler aiming to strike the ball with a bat. The batting side scores runs either when the ball reaches the boundary of the field, or when the two batters swap ends of the pitch, which results in one run. The fielding side's aim is to prevent run-scoring and dismiss each batter (so they are "out", and are said to have "lost their wicket"). Means of dismissal include being bowled, when the bowled ball hits the stumps and dislodges the bails, and by the fielding side either catching a hit ball before it touches the ground, or hitting a wicket with the ball before a batter can cross the crease line in front of the wicket to complete a run. When ten batters have been dismissed, the innings ends and the teams swap roles. The game is adjudicated by two umpires, aided by a third umpire and match referee in international matches.</p>

</div>

</section>

</div>

</section>

</body>

</html>

Index.css:

*{

```
    margin:0;

    font-family: 'Roboto', sans-serif;


}
.header{

    min-height:100vh;

    width:100%;

    background-image: linear-
gradient(rgba(4,9,30,0.7),rgba(4,9,30,0.7)),url(images/background.jpeg);

    background-position: center;

    background-size: cover;

    position: relative;


}
nav{

    display: flex;

    padding:2% 6%;

    justify-content: space-between;

    align-items: center;
}
nav img{

    width:150px;
```

```css
}
.nav-links{

    flex:1;

    text-align: right;


}
.nav-links ul li{

    list-style: none;

    display:inline-block ;

    padding:8px 12px;

    position: relative;

    font-size: 15px;

    font-weight: 200;
}
.nav-links ul li a{

    color:#fff;

    text-decoration: none;

    font-size: 20px;;
}
.nav-links ul li::after{

    content:'';

    width:0%;
```

```css
    height:2px;

    display:block;

    background:#f44336;

    margin:auto;


}
.nav-links ul li:hover::after{

    width:100%;

}
.text-box{

    width:40%;

    color:#fff;

    position: absolute;

    top:50%;

    left:50%;

    transform: translate(-50%,-50%);

    text-align: center;

}
.text-box h1{

    font-size: 52px;;

}
.text-box p{
```

```css
    margin:10px 0 40px;

    font-size:14px;

    color:#fff;

}
.hero-btn{

    display: inline-block;

    text-decoration: none;

    color:#fff;

    border:1px solid #fff;

    padding:12px 34px ;

    font-size:13px;

    background:transparent;

    position: relative;

    cursor:pointer;



}
.hero-btn:hover{

    border:1px solid red;

    background: #f44336;

    transition: 1s;
```
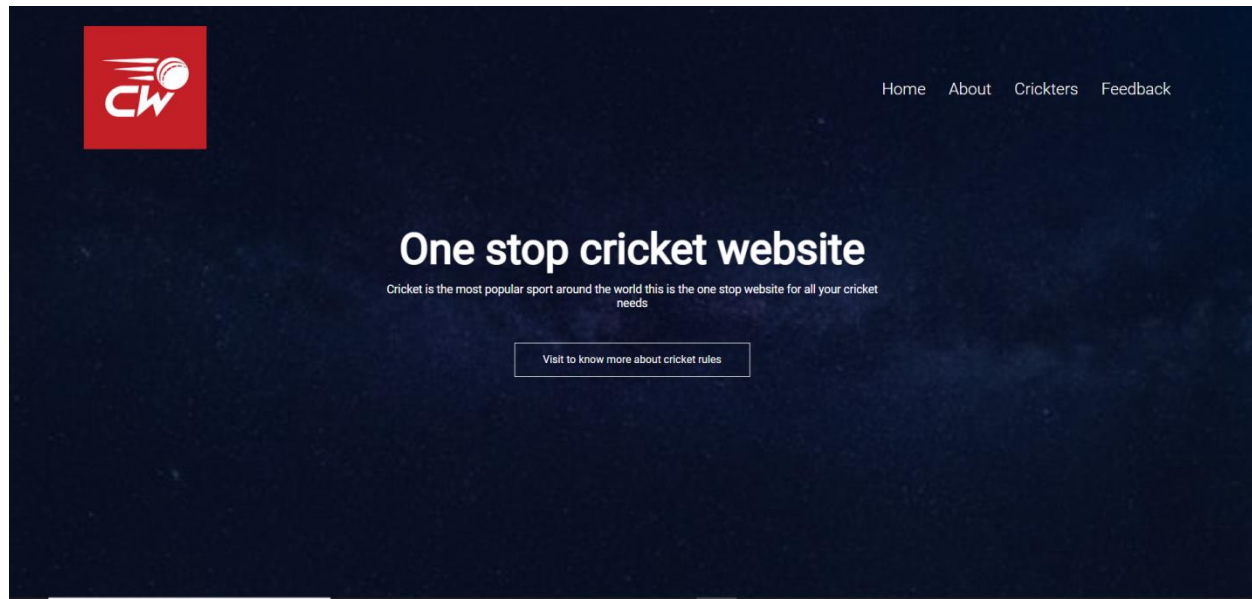
```css
}
.footer{

    text-align: center;

    margin:auto;

    width:80%;

    padding:10px;

}
.footer h1{

    color: rgba(20px,20px,30px,40px);

    font-size: 36px;

    font-weight: 600;

}
.footer p{

    color:#777;

    font-size: 14px;

    font-weight: 300;

    padding:30px;

    text-align: justify;

}
.space-box{

    margin:5px;
```

```css
    padding:3px;

}

.space-box img{

    width:50%;

}

.space-box p{

    color:#777;

    font-size: 14px;

    font-weight: 300;

    padding:30px;

    text-align: justify;

}
```

Output:

History of Cricket

The sport of cricket has a known history beginning in the late 16th century. Having originated in south-east England, it became an established sport in the country in the 18th century and developed globally in the 19th and 20th centuries. International matches have been played since the 19th-century and formal Test cricket matches are considered to date from 1877.

Cricket is a bat-and-ball game played between two teams of eleven players each on a field at the centre of which is a 22-yard (20-metre) pitch with a wicket at each end, each comprising two bails balanced on three stumps. The game proceeds when a player on the fielding team, called the bowler, "bowls" (propels) the ball from one end of the pitch towards the wicket at the other end, with an "over" being completed once they have legally done so six times. The batting side has one player at each end of the pitch, with the player at the opposite end of the pitch from the bowler aiming to strike the ball with a bat. The batting side scores runs either when the ball reaches the boundary of the field, or when the two batters swap ends of the pitch, which results in one run. The fielding side's aim is to prevent run-scoring and dismiss each batter (so they are "out", and are said to have "lost their wicket"). Means of dismissal include being bowled, when the bowled ball hits the stumps and dislodges the bails, and by the fielding side either catching a hit ball before it touches the ground, or hitting a wicket with the ball before a batter can cross the crease line in front of the wicket to complete a run. When ten batters have been dismissed, the innings ends and the teams swap roles. The game is adjudicated by two umpires, aided by a third umpire and match referee in international matches.

Feedback.html

Code:

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>

    <link
href="https://fonts.googleapis.com/css2?family=Roboto:ital,wght@0,300;0,
400;1,300;1,400;1,700&display=swap" rel="stylesheet">

    <title>Feedback</title>

    <style>

        form{

            align-items: center;

            margin-left: 30%;

            margin-right: 30%;

            margin-top: 20%;

            margin-bottom: 30%;

            border-radius: 5px;

            background-color: #100031;


        }
        #email{

            border-color: aquamarine;
```

```
        margin-left: 20px;



}
#sed{

    border-color: #ec38bc;

    margin-left: 20px;

    margin-bottom:40px;

}
h1{

    text-align: center;

    font-family: 'Roboto', sans-serif;

    font-weight: 600;

    color:#fff;

}
label{

    font-family: 'Roboto', sans-serif;

    font-weight: 400;

    padding-left: 20px;

    padding-bottom: 20px;

    color:#fff;

}
```

```css
    body {
  font-family: sans-serif;

  background: -webkit-linear-gradient(

   to right,

   #fdeff9,

   #ec38bc,

   #7303c0,

   #03001e

  );

  background: linear-gradient(to left, #fdeff9, #ec38bc, #7303c0, #03001e);

  background-position: center center;

  background-size: cover;

  background-repeat: no-repeat;

}

.here-btn{

   margin-left: 20%;

   margin-bottom: 20%;

   border-radius: 20px;

   font-size: 15px;

   font-family: sans-serif;

   background-color: #ec38bc;

   color: yellow;
```

```css
    border:1px solid #fff;

    cursor:pointer;

}

.here-btn:hover{

    border:1px solid red;

    background: #f44336;

    transition: 1s;



}
```

    </style>

</head>
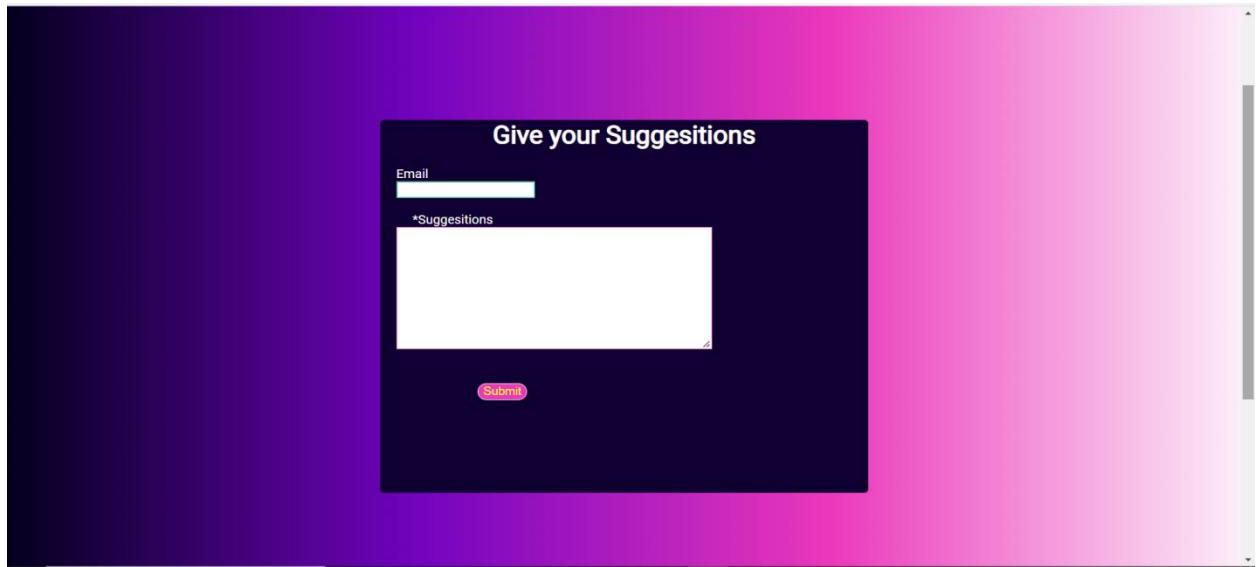
```html
<form action="Desktop/result.html" target="_blank">

    <h1>Give your Suggesitions</h1>

    <label for="email">Email</label><br>

    <input type="text" id="email" required><br><br>

    <label for="Sugessitions" id="sed" >*Suggesitions</label><br>

        <textarea        id="sed"         name="address"        rows="10" cols="50"></textarea><br>

        <button type="button" class="here-btn">Submit</button>


</form>

</html>
```

Output:

Index2.html

Code:

```html
<!DOCTYPE html>

<html lang="en">

<head>

    <title>crickters</title>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <link rel="stylesheet" href="style2.css">

    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>

    <link rel="icon" href="images/ball.jfif">

<link
href="https://fonts.googleapis.com/css2?family=Roboto:ital,wght@0,300;0,400;1
,300;1,400;1,700&display=swap" rel="stylesheet">

<section class="footer">

    <h1>Famous crickters</h1>

    <p> Here are the some of the moderen day famous crckieters who are all
format players and are foavurites among all current players</p>

    <div class="cricket">

        <div class="sachin">

            <h3>Sachin tendulkar</h3>

            <img src="images/sachin.jfif" alt="Sachin Tendulkar">
```

<p>Sachin Ramesh Tendulkar (born 24 April 1973) is an Indian former international cricketer who captained the Indian national team. He is regarded as one of the greatest batsmen in the history of cricket.[4] He is the highest run scorer of all time in international cricket, and the only player to have scored one hundred international centuries, the first batsman to score a double century in a One Day International (ODI), the holder of the record for the most runs in both Test and ODI cricket, and as of 2021 the only player to score more than 30,000 runs in international cricket. He was the only Indian cricketer included in an all-time Test World XI compiled in 2013 to mark the 150th anniversary of Wisden Cricketers' Almanack. He is affectionately known as "Little Master" or "Master Blaster".</p>

</div>

<div class="rohitsharma">

<h2>Rohit sharma</h2>

<img src="images/rohit.jfif" alt="Rohit sharma">

<p>Rohit Gurunath Sharma (born 30 April 1987) is an Indian international cricketer. He is the captain of the Indian national team in limited-overs formats and the vice-captain in Test cricket. He plays for Mumbai in domestic cricket and captains Mumbai Indians in the Indian Premier League as a right-handed batsman and an occasional right-arm off break bowler.He is the fastest player to score 9000 runs in ODI and He is the only player to scpre 3 double hundersds in odi format .He is the the hisghest run scorer in T-20 format and has 4 centuries in it which is te highest by any player in the format</p>

</div>

<div class="virat">

<h2>Virat Kohli</h2>

<img src="images/virat.jfif" alt="Virat Kohli">

<p>Virat Kohli (born 5 November 1988) is an Indian international cricketer and former captain of the Indian national team. He plays for Delhi in domestic cricket and Royal Challengers Bangalore in the Indian Premier League as a right-handed batsman. Kohli is often considered one of the best batsmen of his era and some critics believe him to be one of the best limited-overs batsmen in history.Between 2013 and 2022, Kohli captained the India cricket team in more than 200 matches across all three formats.</p>

```
        </div>

    </div>

<section class="second">

    <div class="shewag">

        <h3>Virendra shewag</h3>

        <img src="images/sehwag.jfif">
```

<p>Virender Sehwag has constructed an extraordinary career with a relentless quest, and a genius, for boundary hitting. With minimal footwork but maximum intent, he has piled Test runs at a faster pace than anyone in the history of cricket. Bowlers must always fancy their chances against a batsman who plays so many strokes; it's just that Sehwag fancies his chances against them much more.</p>

```
        </div>

        <div class="ganguly">

            <h3>Sourav Ganguly</h3>
```

```
<img src="images/ganguly.jfif">

<p>Sourav Chandidas Ganguly (born 8 uly 1972), affectionately known as
Dada (meaning "elder brother" in Bengali), is an Indian cricket administrator,
commentator and former national cricket team captain who is the 39th and
current president of the Board of Control for Cricket in India (BCCI). He is
popularly honoured as Maharaja of Indian Cricket. During his playing career,
Ganguly established himself as one of the world's leading batsmen and also one
of the most successful captains of the Indian national cricket team. While
batting</p>


    </div>

    <div class="vvs">

        <h3>Vvs Laxman</h3>

        <img src="images/vvs.jfif">

        <p>VVS Laxman's name will forever be associated with his finest innings in
Test match cricket -- a silken smooth 281 to revive India and complete a
comeback-from-death victory against Steve Waugh's all conquering Australians at
the Eden Gardens in 2001. Before that match, Laxman had a stop-start career
with the Indian team, debuting as a middle-order batsman then being pushed into
the opener's spot, before announcing that he would no longer open the innings.

        </p>

    </div>

</body>

</html>
```

Style2.css:

```
.footer{

    text-align: center;

    margin:auto;

    width:80%;

    padding:10px;

}

.footer h1{

    color: rgba(16, 40, 146, 0.685);

    font-size: 36px;

    font-weight: 600;

}

.footer p{

    color:#777;

    font-size: 20px;

    font-weight: 300;

    padding:40px;

}

.cricket{

    margin-top:5%;
```

```
    display:flex;

    column-gap: 40px;

    justify-content: space-between;


}

.rohitsharma:hover{

    box-shadow: 0 0 19px 10px #777;

}

.rohitsharma{

    flex-basis: 30%;

    background: #fff3f3;

    border-radius: 10px;

    margin-bottom: 2%;

    box-sizing: border-box;


}

.rohitsharma img{

    width:70%;

}
```

```css
.rohitsharma p{

    padding:10px 15px;

    text-align: justify;

    font-size: 15px;

    font-weight: 500;

}
.virat{

    flex-basis: 40%;

    background: #fff3f3;

    border-radius: 30px;

    margin-bottom: 5%;

    padding:5px 3px;

    box-sizing: border-box;


}
.virat:hover{

    box-shadow: 0 0 19px 10px #777;

}
.sachin{
```

```css
    flex-basis: 40%;

    background: #fff3f3;

    border-radius: 10px;

    margin-bottom: 5%;

    padding:5px 3px;

    box-sizing: border-box;

}

.virat p{

    padding:10px 15px;

    text-align: justify;

    font-size: 20px;

    font-weight: 500;

}

.sachin p{

    padding:10px 15px;

    text-align: justify;

    font-size: 20px;;

    font-weight: 500;

}
```

```
.virat img{

   padding:5px 5px;

   width:50%;

}

.sachin img{

   padding:5px 5px;

   width:50%;

}

.second{

   margin-top:5%;

   display:flex;

   column-gap: 40px;

    justify-content: space-between;

}

.shewag{

    flex-basis: 30%;

    background: #fff3f3;

    border-radius: 10px;

    margin-bottom: 2%;
```

```css
        box-sizing: border-box;

}

.vvs{

        flex-basis: 30%;

        background: #fff3f3;

        border-radius: 10px;

        margin-bottom: 2%;

        box-sizing: border-box;


}

.ganguly{

    flex-basis: 30%;

        background: #fff3f3;

        border-radius: 10px;

        margin-bottom: 2%;

        box-sizing: border-box;

}

.vvs p{

    font-weight: 200;
```

```
    text-align: justify;

}

.shewag p{

    font-weight: 200;

    text-align: justify;

}

.ganguly p{

    font-weight: 200;

    text-align: justify;


}
```

Output:

Famous crickters

Here are the some of the moderen day famous crckieters who are all format players and are foavurites among all current players

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Sachin Ramesh Tendulkar (born 24 April 1973) is an Indian former international cricketer who captained the Indian national team. He is regarded as one of the greatest batsmen in the history of cricket.[4] He is the highest run scorer of all time in international cricket, and the only player to have scored one hundred international centuries, the first batsman to score a double century in a One Day International (ODI), the holder of the

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Virat Kohli (born 5 November 1988) is an Indian international cricketer and former captain of the Indian national team. He plays for Delhi in domestic cricket and Royal Challengers Bangalore in the Indian Premier League as a right-handed batsman. Kohli is often considered one of the best batsmen of his era and some critics believe him to be one of the best limited-overs batsmen in history.Between 2013 and 2022, Kohli captained the India cricket team in more than

Virendra shewag

Virender Sehwag has constructed an extraordinary career with a relentless quest, and a genius, for boundary hitting. With minimal footwork but maximum intent, he has piled Test runs at a faster pace than anyone in the history of cricket. Bowlers must always fancy their chances against a batsman who plays so many strokes; it's just that Sehwag fancies his chances against them much more.

Sourav Ganguly

Sourav Chandidas Ganguly (born 8 uly 1972), affectionately known as Dada (meaning "elder brother" in Bengali), is an Indian cricket administrator, commentator and former national cricket team captain who is the 39th and current president of the Board of Control for Cricket in India (BCCI). He is popularly honoured as Maharaja of Indian Cricket. During his playing career, Ganguly established himself as one of the world's leading batsmen and also one of the most successful captains of the Indian national cricket team. While

Vvs Laxman

VVS Laxman's name will forever be associated with his finest innings in Test match cricket -- a silken smooth 281 to revive India and complete a comeback-from-death victory against Steve Waugh's all conquering Australians at the Eden Gardens in 2001. Before that match, Laxman had a stop-start career with the Indian team, debuting as a middle-order batsman then being pushed into the opener's spot, before announcing that he would no longer open the innings.

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

hello_world_project/

manage.py

helloworld_project/

__init__.py

settings.py

urls.py

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 plop 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 , eg ;Creating a form

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.messages',

         ],

```
    },

  },

]
```

Second(urls.py):

```python
urlpatterns = [

    path('admin/', admin.site.urls),

    path('',include('myapp.urls'))

]
```

Myapp(admin.py):

```python
from django.contrib import admin

from myapp.models import student


# Register your models here.

admin.site.register(student)
```

Myapp(apps.py):

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

```python
class MyappConfig(AppConfig):

    default_auto_field = 'django.db.models.BigAutoField'

    name = 'myapp'
```

Myapp(forms.py):

```python
from django import forms

from myapp.models import student


class Login(forms.ModelForm):

    class Meta:

        model=student

        fields='__all__'
```

Myapp(models.py):

```python
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)
```

Web Programming

Myapp(urls.py):

```python
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 HttpResponse

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)

```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

Web Programming

Output:

```
C:\Users\Sukeerthi>cd desktop

C:\Users\Sukeerthi\Desktop>cd charanfirst

C:\Users\Sukeerthi\Desktop\charanfirst>python manage.py runserver
Watching for file changes with StatReloader
Performing system checks...

System check identified no issues (0 silenced).
February 18, 2022 - 19:49:59
Django version 4.0.2, using settings 'charanfirst.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
[18/Feb/2022 19:50:19] "GET /form HTTP/1.1" 200 736
Not Found: /favicon.ico
[18/Feb/2022 19:50:20] "GET /favicon.ico HTTP/1.1" 404 2284
```

Name: [   ]

Branch: [   ]

Number: [   ]

[Submit]

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

  Read:

Name: cha

Branch: information technology

Number: 208w1a1268

Submit

Update:

Step 1: Select and open one of the objects created.(say student object (1))
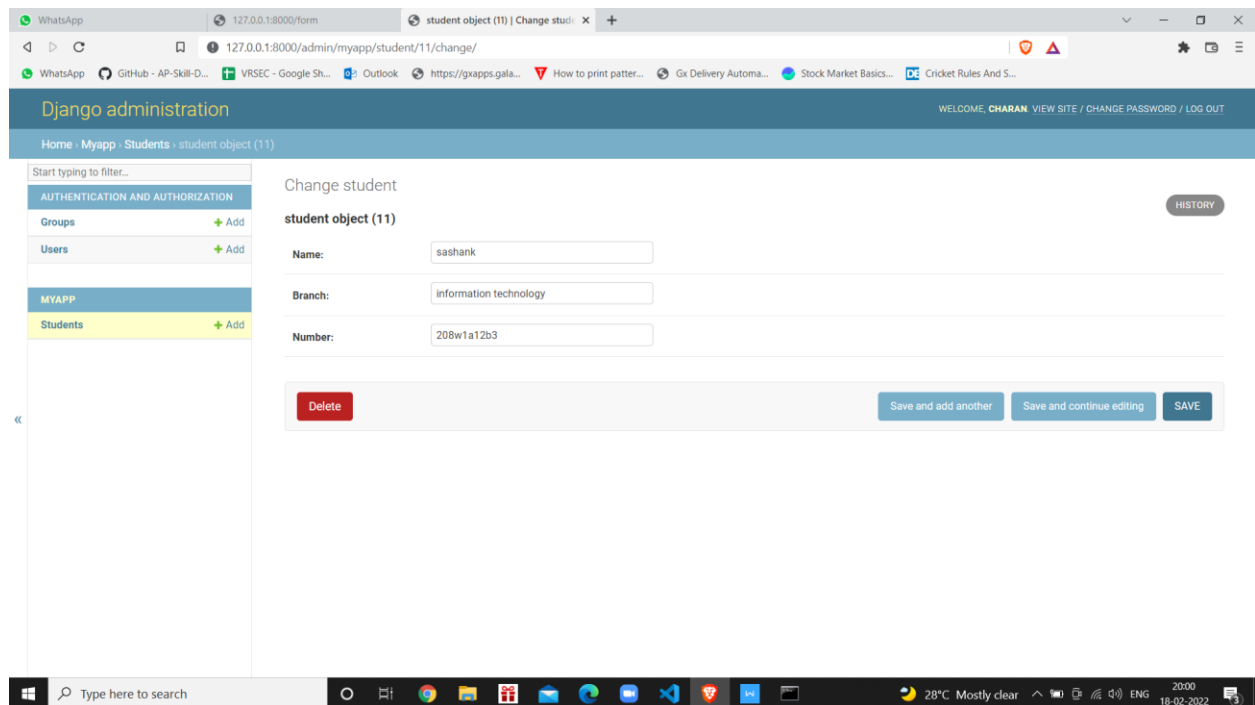
Step 2: Select the Save and continue editing button to update the object.

Web Programming

Step 3: The change is updated successfully.

DELETE:

Step 1: Select the student object to delete. (say student object(9))

Step 2: The student "student object(9)" was deleted successfully.