Golf

Setting up the environment.

- When python is correctly installed, we first need to download Django itself with the following command in command prompt: *pip install Django*
- Additionally, since we will be using Bootstrap 4, we need to download compiled CSS and JS scripts from official Bootstrap website

Initializing the project.

- After the Django has finished downloading, we can initialize new project by typing *django-admin startproject projectname.* Since our topic is Golf, we replaced "projectname" with "golf".
- To make sure that everything is set up correctly, we first need to go to newly created project with *cd golf* command, and type *python manage.py runserver* to start our local server.

Coding

- Since our website will be very small and simple, consisting of several pages, we only need one app, which we create with *django startapp pages.* Now we have a new folder named pages inside our root folder.
  Then we need to add this newly created app into our project settings. To do so, we head over to settings.py file and the following code to INSTALLED_APPS variable, which will add our app to a list of existing apps

```
INSTALLED_APPS = [
    'django.contrib.admin',
    'django.contrib.auth',
    'django.contrib.contenttypes',
    'django.contrib.sessions',
    'django.contrib.messages',
    'django.contrib.staticfiles',
    'pages',
]
```

- Django has very useful feature of templates, meaning we can create a basic page template, which will be rendered on every page and only modify the dynamic parts. To do so, we create a folder called "templates" in the root folder, and as again need to link it to our project in settings.py file:

```
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',
            ],
        },
    },
]
```

- Since we will be using static files (like CSS and Images), we need to link the path as well.

```python
STATIC_URL = '/static/'

STATICFILES_DIRS = [
    os.path.join(BASE_DIR, 'static')
]
```

- Now we need to add routes to our future pages. In views.py in pages folder, we add the following code and repeat the same function to every page:

```python
from django.shortcuts import render

# Creating our views here
def home_view(request): # home_view is the name of our page template
    return render(request, "home.html", {}) # we return a render of our html page

def about_view(request):
    return render(request, "about.html", {})
```

- Then in urls.py file in root folder, we first import those views, and add routes to urlpattern variable:

```python
from pages.views import home_view, about_view, rules_view, stats_view, tournaments_view, impressum_view, reference_view

urlpatterns = [
    path('admin/', admin.site.urls),
    path('', home_view, name='home'),
    path('about/', about_view),
    path('rules/', rules_view),
    path('statistics/', stats_view),
    path('tournaments/', tournaments_view),
    path('impressum/', impressum_view),
    path('reference/', reference_view)
]
```

Templates

- In order to use templates, first we need to create base template, and since our website will consist of 7 pages, we then create 7 different html files called home, about, rules, statistics, tournaments, impressum and reference.

    - about.html
    - base.html
    - home.html
    - impressum.html
    - reference.html
    - rules.html
    - statistics.html
    - tournaments.html

Adding static files.

- Now we create the folder names **static** which will store all files like css, js, and images, and copy downloaded bootstrap files into css and js folder accordingly. Also we need to create **images** folder where we store our background image.

:t › golf › static

Name

css

images

js

Basic setup is complete. Now it is time write HTML code and style it.

Base Template

```django
{% load static %} <!--Loading static files-->
<!doctype html>
<html>

<head>
    <title>Golf</title>
    <!--Importing bootstrap css from static-->
    <link rel="stylesheet" href="{% static 'css/bootstrap.css' %}">
    <link rel="stylesheet" href="{% static 'css/main.css' %}">
    <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.13.0/css/all.css">
    <link rel="stylesheet" href="{% static 'css/animate.css' %}">
</head>
```

```django
<body>
    <!--Navbar with links to pages that will be displayed on every page-->
    <nav class="navbar navbar-custom navbar-expand-lg">
        <span style="font-size: 40px; color: ▊wheat; margin-left: 10px; margin-right: 50px;">
            <i class="fas fa-golf-ball"></i>
        </span>

        <div class="navbar-navs">
            <ul class="navbar-nav justify-content-center">
                <li class="nav-item active">
                    <a class="nav-link a-custom" href="/"><i class="fas fa-home"></i> Home</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link a-custom" href="/about"><i class="fas fa-info"></i> About</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link a-custom" href="/rules"><i class="fas fa-list-alt"></i> Rules</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link a-custom" href="/statistics"><i class="fas fa-database"></i> Statistics</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link a-custom" href="/tournaments"><i class="fas fa-trophy"></i> Tournaments</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link a-custom" href="/impressum"><i class="fas fa-users"></i> Impressum</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link a-custom" href="/reference"><i class="fas fa-asterisk"></i> Reference</a>
                </li>
            </ul>
        </div>
    </nav>
```
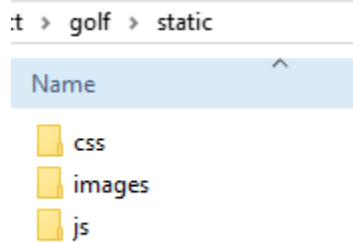
```django
    <!--Here is the dynamic code-->
    {% block content %}
    replace me
    {% endblock %}

    <!--Importing bootstrap scripts-->
    <script src="{% static 'js/jquery.min.js' %}"></script>
    <script src="{% static 'js/bootstrap.js' %}"></script>

</body>

</html>
```

Home Page

```
{% extends 'base.html' %} <!--This line means that the file will be used in our base template-->

{% block content %}
    <!--The home page is very simple-->
    <div class="container">
        <h3 class="header-text">
            This webpage is all about GOLF
        </h3>
    </div>
{% endblock %}
```

About Page

```
{% block content %}
<div class="container">
    <!--Header-->
    <h3 class="header-text">
        About golf
    </h3>
    <!--Paragraph-->
    <p class='about-golf'>
        Golf is an individual sport played by hitting a ball with a club from a tee into a hole. The object is to get
        the ball into the hole with the least number of swings or strokes of the club. Golf is a hugely popular sport
        that is enjoyed by people of all ages. Golf is often played competitively, but can also be played for relaxation
        and just to enjoy the outdoors.
    </p>
</div>
{% endblock %}
```

Rules

```
{% extends "base.html" %}

{% block content %}
<div class="container">
    <h3 class="header-text">
        Rules
    </h3>
    <p class='rules-header'>
        The official rules of golf in the US are governed by the United States Golf Association (USGA), but here are
        some basic rules to keep in mind when playing golf:
    </p>
    <!--Here we implement rules as a list-->
    <ul class="rules-list">
        <li>You must play the golf ball where it lies, unless there is a rule that allows you to move it.</li>
        <li>The golf course may not be changed to gain an advantage, unless there is a rule that allows for a specific
            change.</li>
        <li>If your ball is in a bunker or water hazard, your golf club cannot touch the ground or water prior to your
            actual swing. If it does, you must take a penalty stroke.</li>
        <li>If you accidentally play the wrong golf ball (oops!), you get a two stroke penalty.</li>
        <li>On the green, you may mark and lift your ball to clean it or get it out of another golfer's way.</li>
        <li>When putting the ball must not hit the flag. If the golf ball does hit the flag, it is a two stroke penalty.
        </li>
        <li>If you loose the ball in a water hazard, you can drop the ball behind the hazard and in line with the golf
            hole. You must take a penalty stroke.</li>
        <li>If you loose the ball out of bounds, you can take a penalty stroke and then replay the shot.</li>
        <li>If your ball is unplayable, you may take a penalty stroke and then drop the golf ball behind where the ball
            was and in line with the hole or drop the golf ball within two club lengths.</li>
        <li>You are allowed a maximum of 14 clubs in your golf bag.</li>
        <li>Golfers must tee off behind and between the tee markers. Never in front of the tee markers.</li>
    </ul>
</div>

{% endblock content %}
```

```
{% extends 'base.html' %}

{% block content %}
<div class="container">
    <h3 class="header-text">
    </h3>
    <!--Leaderboard table-->
    <table class="table table-striped table-dark table-bordered">
        <thead>
            <tr class="colhead">
                <td>#</td>
                <td>PLAYER</td>
                <td align="right">AGE</td>
                <td align="right">Events</td>
                <td align="right">Rounds</td>
                <td align="right">Cuts Made</td>
                <td align="right">Top 10</td>
                <td align="right">Wins</td>
                <td align="right">Cup Points</td>
                <td align="right">Earnings</td>
            </tr>
        </thead>
        <tbody>

            <tr>
                <td>1</td>
                <td>Sungjae Im</td>
                <td align="right">22</td>
                <td align="right">14</td>
                <td align="right">54</td>
                <td align="right">13</td>
                <td align="right">5</td>
                <td align="right">1</td>
```

```
<div class="container">
    <h3 class="header-text">Interesting Facts</h3>
    <!--Introducing carousel-->
    <div id="carouselExampleControls" class="carousel slide" data-ride="carousel">
        <div class="carousel-inner text-center">
            <div class="carousel-item active">
                <div class="fact">
                    <!--Every carousel page-->
                    <h4 class="fact-header">Longest Recorded Drive Was 515 Yards (~470 meters)</h4>
                    <p class="fact-text">English-American pro golfer and kinesiology expert Michael Hoke Austin is
                        credited with making the longest drive. While playing in the U.S. National Seniors Tournament in
                        1974, Hoke drove the ball a mind-boggling 515 yards. PGA champion Chandler Harper, Hoke's
                        foursome teammate, said "This is impossible, but there is a ball over here."</p>
                </div>
            </div>
```

```html
{% extends 'base.html' %}

{% block content %}
<div class="container">
    <h3 class="header-text">
        Upcoming Tournaments
    </h3>
    <table class="table table-striped table-dark table-bordered">
        <thead>
            <tr>
                <th scope="col" class="text-left align-middle">Date</th>
                <th scope="col" class="text-left align-middle">Name</th>
                <th scope="col" class="text-left align-middle">Location</th>
                <th scope="col" class="text-left align-middle">Prize Pool</th>
                <th scope="col" class="text-left align-middle">Defending Champion</th>
            </tr>
        </thead>
        <tbody>
            <tr>
                <th scope="row" class="date">Sep 12 - 15</th>
                <td>A Military Tribute at The Greenbrier</td>
                <td>The Old White Course, White Sulphur Springs WV - USA</td>
                <td>$7,500,000</td>
                <td>Joaquin Niemann</td>
            </tr>
            <tr>
                <th scope="row" class="date">Sep 19 - 22</th>
                <td>Sanderson Farms Championship</td>
                <td>Country Club of Jackson, Jackson MS - USA</td>
                <td>$6,600,000</td>
                <td>Sebastián Muñoz</td>
            </tr>
            <tr>
```

Impressum Page

```
{% extends 'base.html' %}

{% block content %}
    <div class="container">
        <h3 class="header-text">
            Impressum
        </h3>

        <!--Each member box-->
        <div class="member-info-container">
        <div class="category-container">
            <span class="category-name"> <i class="fas fa-microphone-alt"></i> Speaker</span>
            <hr>
            <span class="member-name">Oral Akerke</span>
            <hr>
            <p class="category-description">The head of our group</p>
        </div>

        <div class="category-container">
            <span class="category-name"> <i class="fas fa-search"></i> Researchers</span>
            <hr>
            <span class="member-name">Mammadinova Diana</span>
            <span class="member-name">Ulgayeva Saida</span>
            <span class="member-name">Merzayeva Aray</span>
            <hr>
            <p class="category-description">These people are responsible for finding valuable i
        </div>
```

Reference Page

```
{% extends 'base.html' %}

{% block content %}
    <div class="container">
        <h3 class="header-text">Reference</h3>
        <p><a href="https://pxhere.com/en/photo/1517173">Background image</a></p>
        <p><a href="https://www.ducksters.com/sports/golf.php">About golf</a></p>
        <p><a href="https://www.ducksters.com/sports/golfrules.php">Rules</a></p>
        <p><a href="http://www.espn.com/golf/statistics/_/year/2020/sort/cupPoints">Leaderboards</a></p>
        <p><a href="https://www.jrpga.com/blog/did-you-know-7-fun-facts-about-golf/">Facts</a></p>
        <p><a href="https://www.pgatour.com/tournaments/schedule.html">Tournaments</a></p>
    </div>
{% endblock %}
```

```css
body{ /*Setting the background*/
    background: url("../images/background.jpg");
    background-size: cover;
}


.a-custom{ /*Color for our navbar links*/
    color: wheat;
}


.navbar-custom{ /*Navbar color and opacity*/
    background-color: black;
    opacity: 0.7;
}


.container{ /*The container that is used on every page*/
    width: 80%;
    min-height: 500px;
    background: black;
    opacity: 0.7;
    margin-top: 1%;
    margin-bottom: 1%;
    border-radius: 30px;
    display: flex;
    flex-direction: column;
    align-items: center;
    justify-content: center;
}


.header-text{ /*Setting the color, size and padding for header text*/
    color: wheat;
    font-size: 300%;
    padding: 1%;
}
```

```css
.about-golf{ /*Text on about page*/
    color: wheat;
    font-size: 200%;
    padding: 5%;
}


.rules-header{
    color: wheat;
    font-size: 100%;
    padding: 5%;
}


.rules-list{
    color: wheat;
    font-size: 100%;
    margin-right: 30px;
    margin-left: 30px;
}


li{
    margin: 5px;
}


.carousel-inner{
    margin: 30px;
}


.fact{
    width: 90%;
}
```

```css
.fact-text{
    flex: 1;
    justify-self: center;
    color: ■wheat;
}

.right{
    justify-self: right;
}

.left{
    justify-self: left;
}

.member-info-container{ /*Member Card*/
    display: flex; /*Placing every card  */
    flex-direction: row; /* in the center*/
    align-content: center; /* leaving even space*/
    justify-content: space-evenly; /* around them*/
}

.category-container{
    min-width: 250px;
    margin: 30px;
    display: flex;
    flex-direction: column;
    justify-content: center;
    align-items: center;
}
```

```css
.category-name{
    font-weight: bold;
    flex: 2;
    font-size: 25px;
    color: ■wheat;
}

.member-name{

    font-size: 20px;
    color: ■wheat;
}

.category-description{
    color: ■burlywood;
    flex: 2;
    font-size: 15px;
    color: ■darkslateblue;
    border-top: 2px solid ■wheat;
    width: 100%;
    text-align: center;
    padding-top: 10px;
}

.date{
    font-size: 15px;
}
```