



# **Discipline**

**Website Hosting on Aws Bucket**

**CS5002**

Lab-test

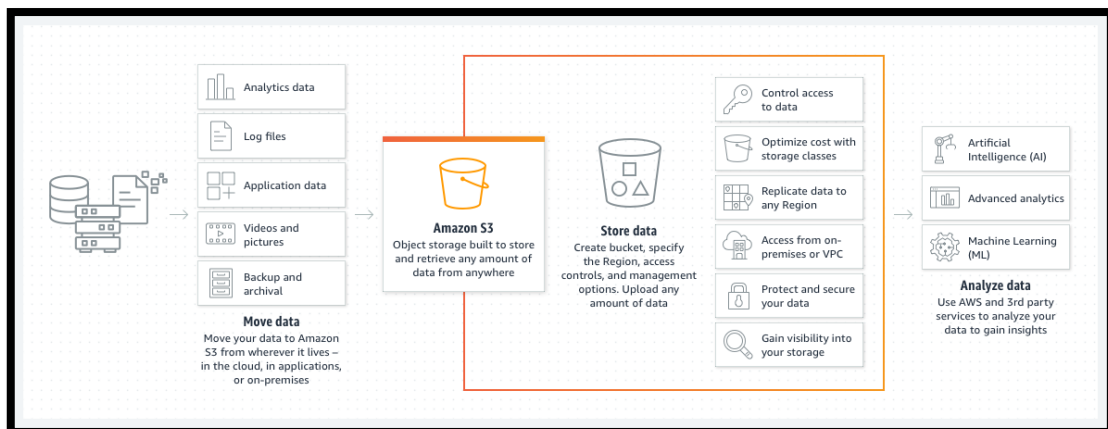
**Sheikh Muhammed Tadeeb (AU19B1014)**

## ❖ Problem Statement:

Building a website with previous knowledge of HTML, CSS and JavaScript and hosting it on AWS cloud platform considering the channel to be public i.e., general public can have access to your website and if a user commits some mistake, he/she should be prompted with an error page.

## ❖ Buckets:

Amazon Simple Storage Service (Amazon S3) is an object storage service offering industry-leading scalability, data availability, security, and performance. Customers of all sizes and industries can store and protect any amount of data for virtually any use case, such as data lakes, cloud-native applications, and mobile apps. With cost-effective storage classes and easy-to-use management features, you can optimize costs, organize data, and configure fine-tuned access controls to meet specific business, organizational, and compliance requirements.



Each object in Amazon S3 has a storage class associated with it. Amazon S3 offers a range of storage classes for the objects that we store. All of these storage classes offer high durability (except for RRS). We choose a class depending on our 2 factors:

1. Use case scenario
2. Performance access requirements.

## ❖ Selecting the Right Storage Class:

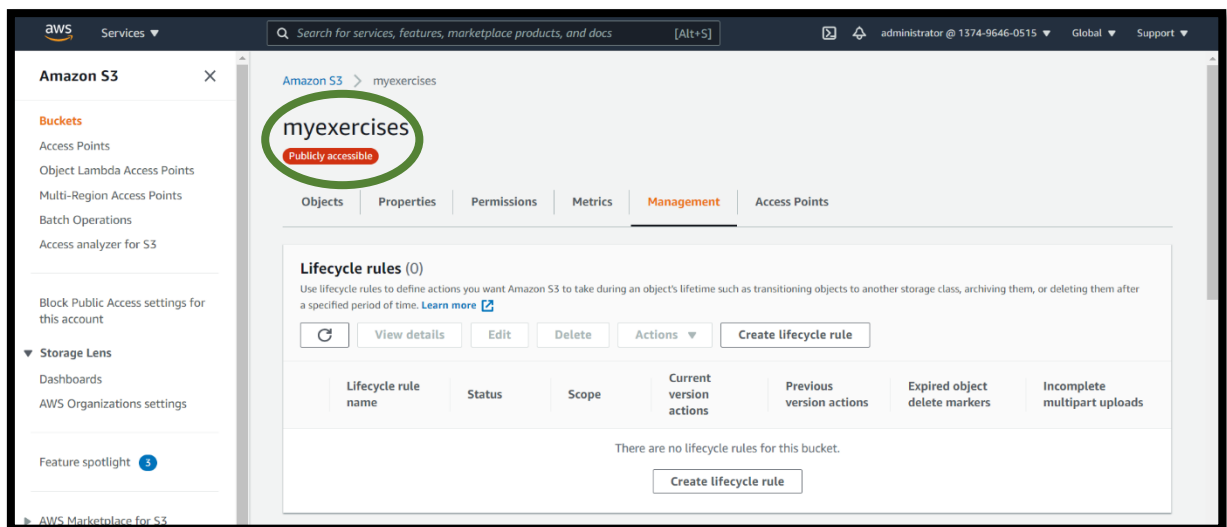
There exist different storage classes each with their pros and cons so it depends on the need and priority of the user that which type of storage class he/she should opt for. We need to decide between these things size, time and cost. These are the major factors which shape our decision in choosing an Aws Cloud Storage. So we need to host a website and we want our website to be readily available to our users hence I'll be using S3 standard class.

Features	S3 Standard	S3 Intelligent-Tiering*	S3 Standard-IA	S3 One Zone-IA†	S3 Glacier	S3 Glacier Deep Archive
Designed for durability	99.99% (11 9's)	99.99% (11 9's)	99.99% (11 9's)	99.99% (11 9's)	99.99% (11 9's)	99.99% (11 9's)
Designed for availability	99.99%	99.9%	99.9%	99.5%	99.99%	99.99%
Availability SLA	99.9%	99%	99%	99%	99.9%	99.9%
Availability Zones	≥3	≥3	≥3	1	≥3	≥3
Minimum capacity charge per object	N/A	N/A	128KB	128KB	40KB	40KB
Minimum storage duration charge	N/A	N/A	30 days	30 days	90 days	180 days

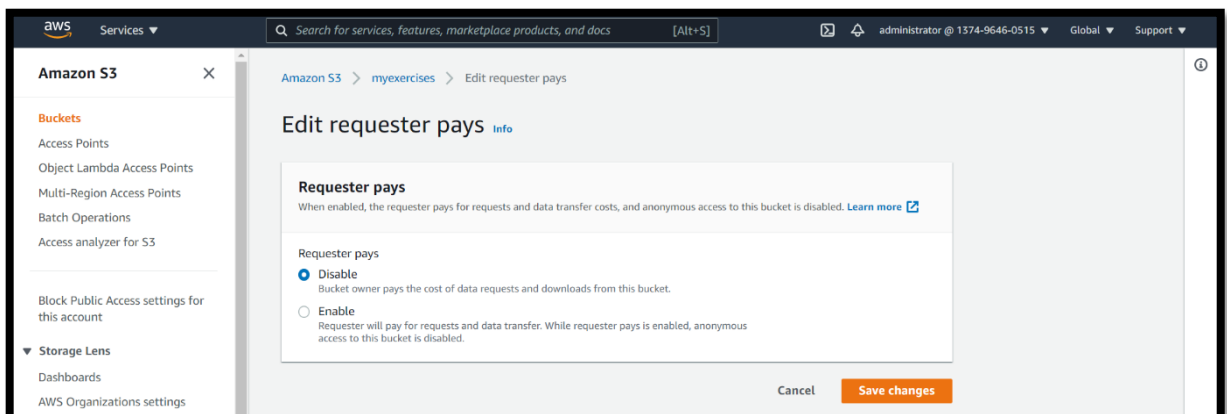
Retrieval charge	N/A	N/A	per GB retrieved	per GB retrieved	per GB retrieved	per GB retrieved
First byte latency	milliseconds	milliseconds	milliseconds	milliseconds	select minutes or hours	select hours
Storage type	Object	Object	Object	Object	Object	Object
Lifecycle transitions	Yes	Yes	Yes	Yes	Yes	Yes

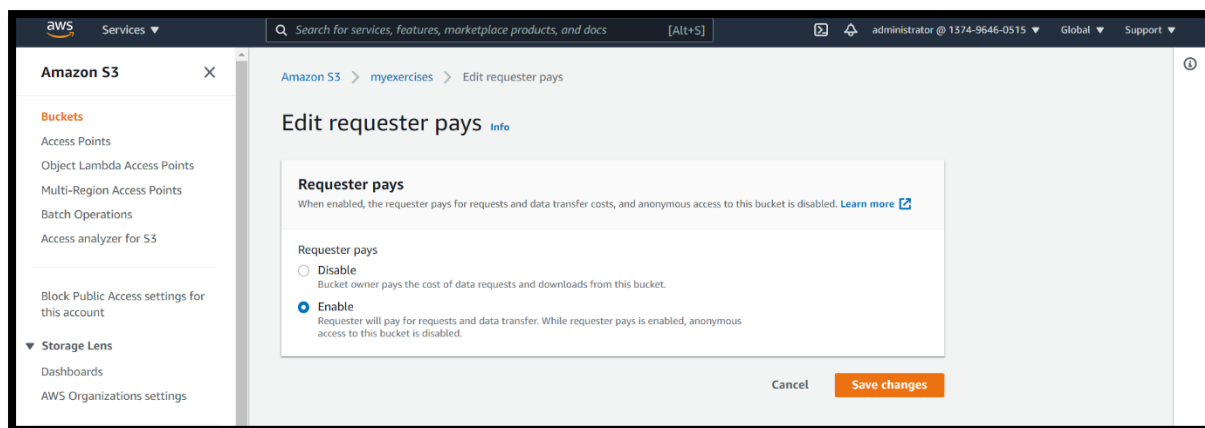
## ❖ Creating Bucket:

**Step1)** Creating myexercise bucket and making it publicly accessible by going in **Permissions → Public Access → Enable**.

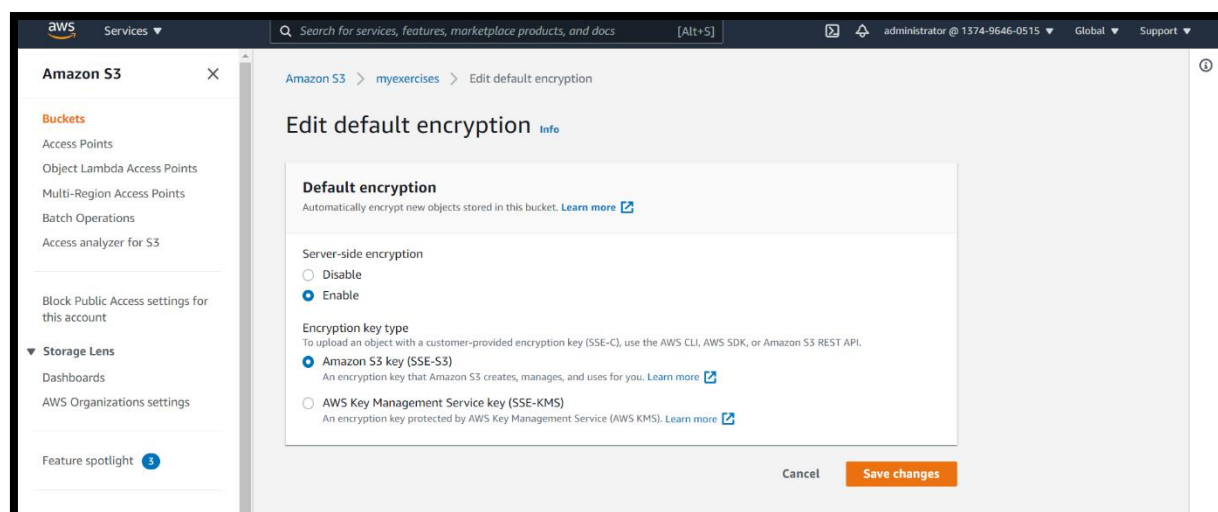
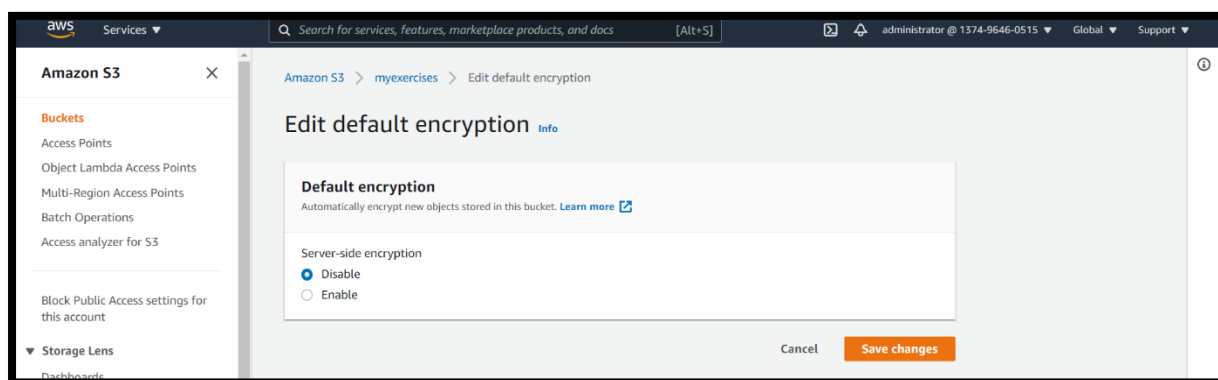


**Step2)** Enabling Request pays.



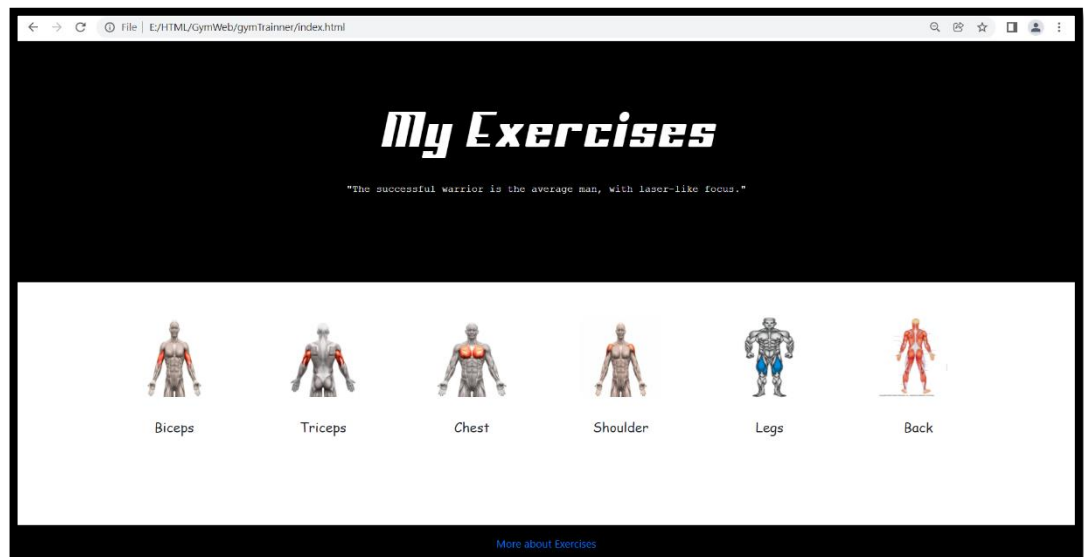


### Step3) Enabling default encryption.

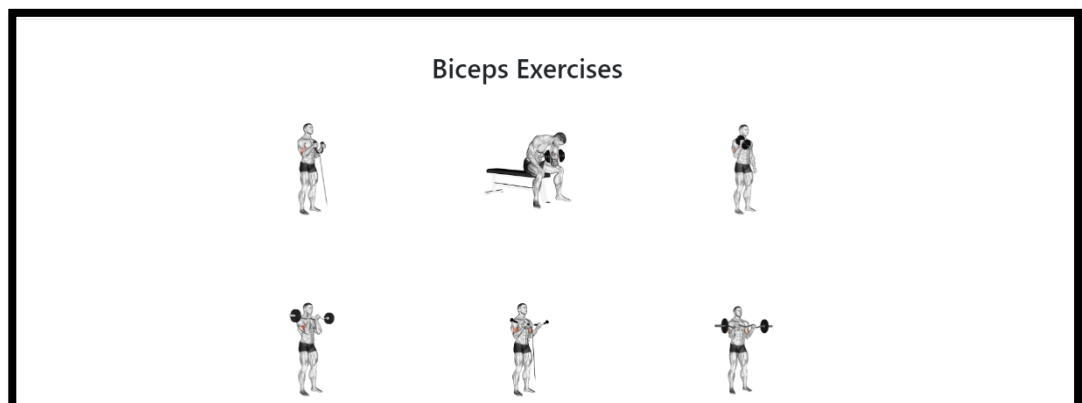
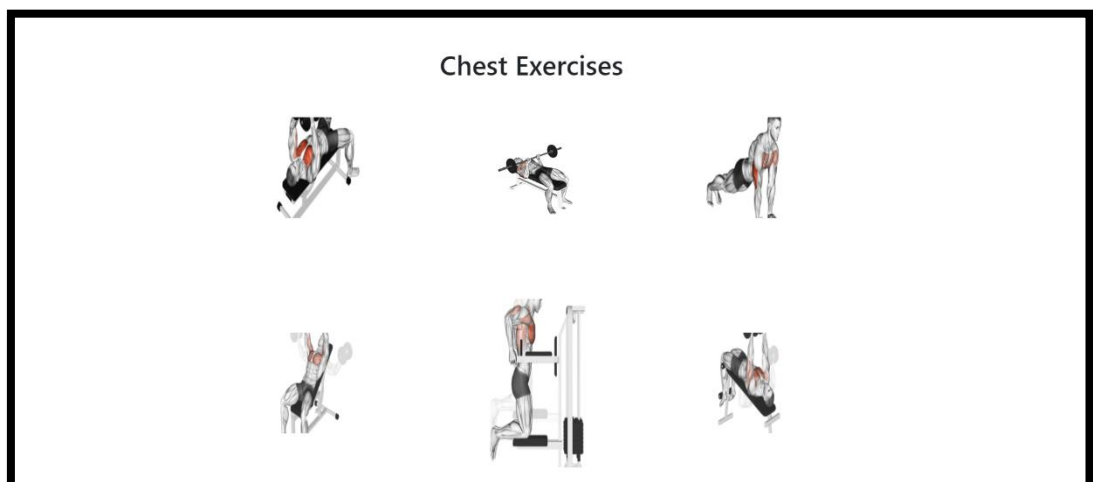


## ❖ Website UI:

### ➤ Index page:

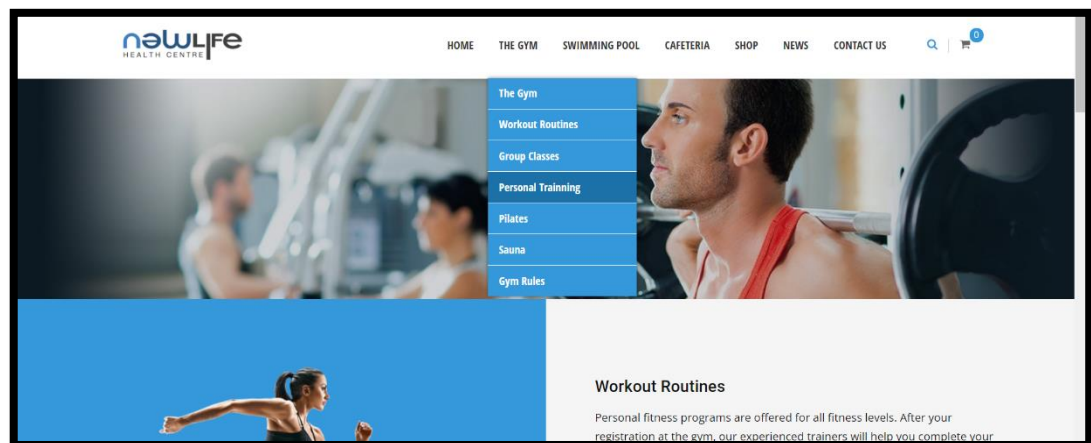
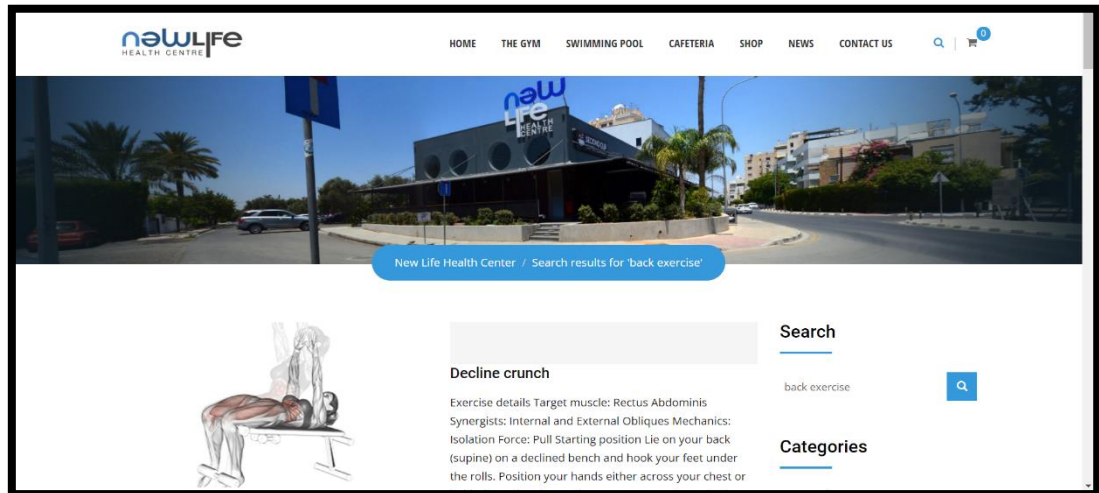


Upon clicking on any exercise, its video/gif will occur which the user can follow to perform his/her exercises.

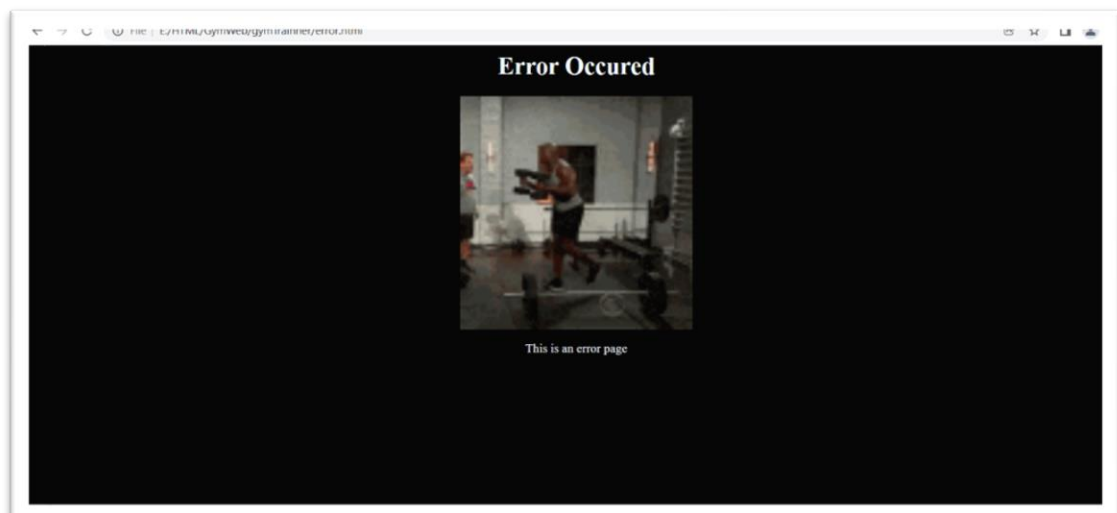


## ➤ Home Page:

If the user wants to get detailed information of proper positions, guidance from trainer he can easily do that from various options provided on home page of the website.



## ➤ Error Page:



➤ **Code for Index Page:**

```
<html>

<head>

  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min
.css">
  <script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js">
</script>
  <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.16.0/umd/popper
.min.js"></script>
  <script
src="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/js/bootstrap.min.j
s"></script>


  <style>

    .container-fluid {

      min-width: 100%;
      min-height: 400px;
      background-color: black;
      text-align: center;
      color: rgb(255, 255, 255);
      font-family: "Heading-font";
      font-size: 100px;
      padding-top: 100px;

    }

    @font-face {
      font-family: "Heading-font";
      src:url("SportageDemoitalic-p735r.otf");
    }

    @font-face {
      font-family: "Heading-font2";
      src:url("GYM.ttf");
    }
    #image{

      width: 120px;
      height: 120px;

    }

    #exerimage{
```



```

width: 150px;
height: 150px;

}

#exerimage:hover{

    width: 250px;
    height: 250px;
    border-radius: 20px;

}

html {
    scroll-behavior: smooth;
    overflow: scroll;
    overflow-x: hidden;
}

html::-webkit-scrollbar {
    width: 0;
    background: transparent;
}

.btn{

    width:180px;
    height:180px;
    margin-left: 20px;
    margin-right: 20px;
    border-radius: 20px;
    font-size: 20px;
    font-family: cursive;

}

.btn:hover{
box-shadow:    0 0 10px #4e4e4e,
               0 0 10px #000000;
}

.exer{

    width:200px;
    height:200px;
    background-color: white;
    color: #000000;
    display: inline-block;
    margin-left:60px;
    margin-right:60px;

}

#myFooter {

```

```

max-height: 50px;
min-width: 100%;
text-align: center;
padding-top: 100px;
background: black;
color: white;
}

</style>

</head>

<body>

    <div class="container-fluid">
        My Exercises
        <p style="color: white; font-size: 15px; font-family: 'Courier
New', Courier, monospace ;">"The successful warrior is the average man,
with laser-like focus."</p>
    </div>

    <br/>
    <br/>

    <div>
        <center>
            <button type="button" class="btn" id="Biceps"
onclick="show('Biceps')">
                <image style="height: 120px; width: 120px"
src="https://oldschoollabs.com/wp-content/uploads/2019/06/1-
2.jpg"></image>
            <br/>
            <br/>
            Biceps</button>

            <button type="button" class="btn" id="Triceps"
onclick="show('Triceps')">
                <image id="image" src="https://www.mz-store.com/blog/wp-
content/uploads_en/2018/11/triceps1-768x768.jpg">
            </image>
            <br/>
            <br/>
            Triceps
            </button>

            <button type="button" class="btn" id="Chest"
onclick="show('Chest')">
                <image id="image" src="https://www.mz-store.com/blog/wp-
content/uploads_en/2018/10/chest-768x768.jpg"></image>
            <br/>
            <br/>
            Chest</button>

```

```

        <button type="button" class="btn" id="Shoulder"
onclick="show('Shoulder')">

        <image id="image" src="https://oldschoollabs.com/wp-
content/uploads/2019/06/2-9.jpg"></image>
        <br/>
        <br/>
        Shoulder
    </button>

    <button type="button" class="btn" id="Legs"
onclick="show('Legs')">

        <image style ="height: 120px; width: 90px"
src="https://cdn.muscleandstrength.com/sites/all/themes/mnsnew/images/t
axonomy/exercises/muscle-groups/full/Quads.jpg"></image>
        <br/>
        <br/>
        Legs</button>

    <button type="button" class="btn" id="Back"
onclick="show('Back')">
        <image id="image"
src="https://www.wsfcs.k12.nc.us/cms/lib/NC01001395/Centricity/Domain/8
59/0621_SuperficialMuscPost_2.JPG"></image>
        <br/>
        <br/>
        Back
    </button>

</center>

</div>

<br/>
<br/>

<div class="container border-dark border-2" id="exercise"
style="display: none;
    margin-left: 200px;
    margin-right: 200px;
    width: 100%;
    padding: 15px;
    "
>
</div>

<div id="Biceps1" style="display: none;">

    <center><h1>Biceps Exercises</h1>
    <br/>
    <br/>

```

```
<span class="exer">
  <image id="exerimage" src="https://www.aleanlife.com/wp-
content/uploads/2020/08/rope-bicep-curls.gif"></image>

  <br/>
</span>

<span class="exer">
  <image id="exerimage"
src="https://i.pinimg.com/originals/88/3d/06/883d061da85cd5b7bc90b59ec8
e35194.gif"></image>

  <br/>
</span>

<span class="exer">
  <image id="exerimage"
src="https://i.pinimg.com/originals/e7/3c/a3/e73ca3f21003ddc2f12a6da321
dceac6.gif"></image>

  <br/>
</span>

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

<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/04461301-EZ-Barbell-Close-grip-Curl_Upper-
Arms_360.gif"></image>

  <br/>
</span>

<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/08681301-Cable-Curl-m_Upper-
Arms_360.gif"></image>

  <br/>
</span>

<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/04511301-EZ-Barbell-Reverse-Grip-
Curl_Forearms_360-1.gif"></image>

  <br/>
</span>
```

```

</center>

</div>

<div id="Triceps1" style="display: none;">

  <center><h1>Triceps Exercises</h1>
  <br/>
  <br/>

  <span class="exer">
    <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/12/02411301-Cable-Triceps-Pushdown-V-bar-
attachment_Upper-Arms_360.gif"></image>

    <br/>
  </span>

  <span class="exer">
    <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/12/16061301-Cable-Reverse-Grip-Triceps-Pushdown-
SZ-bar_Upper-arms_360-1.gif"></image>

    <br/>
  </span>

  <span class="exer">
    <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/12/21881301-Dumbbell-Seated-Triceps-
Extension_Upper-Arms_360.gif"></image>

    <br/>
  </span>

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

  <span class="exer">
    <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/04491301-EZ-Barbell-Incline-Triceps-
Extension_Upper-Arms_360.gif"></image>

    <br/>
  </span>

  <span class="exer">

```

```

        <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/17461301-Exercise-Ball-Supine-Triceps-
Extension_Upper-Arms_360.gif"></image>

        <br/>
    </span>

    <span class="exer">
        <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/17381301-Dumbbell-Seated-Reverse-Grip-One-Arm-
Overhead-Tricep-Extension_Upper-Arms_360-360x200.gif"></image>

        <br/>
    </span>

</center>

</div>

<div id="Chest1" style="display: none;">

    <center><h1>Chest Exercises</h1>
        <br/>
        <br/>

        <span class="exer">
            <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/03081301-Dumbbell-Fly_Chest-FIX_360-
360x200.gif"></image>

            <br/>
        </span>

        <span class="exer">
            <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/00521301-Barbell-JM-Bench-Press_Upper-
Arms_360.gif"></image>

            <br/>
        </span>

        <span class="exer">
            <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/02591301-Close-Grip-Push-up_Upper-Arms_360-
360x200.gif"></image>

            <br/>
        </span>

```

```

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

<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/03191301-Dumbbell-Incline-Fly_Chest-FIX_360-1-
360x200.gif"></image>

  <br/>
</span>

<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/00091301-Assisted-Chest-Dip-kneeling_Chest_360-
360x200.gif"></image>

  <br/>
</span>

<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/03011301-Dumbbell-Dcline-Bench-
Press_Chest_360-360x200.gif"></image>

  <br/>
</span>

</center>
</div>

<div id="Shoulder1" style="display: none;">

  <center><h1>Shoulder Exercises</h1>
  <br/>
  <br/>

  <span class="exer">
    <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/11951301-Lever-Incline-Hammer-Chest-
Press_Chest_360-360x200.gif"></image>

    <br/>
  </span>

  <span class="exer">

```

```
<image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2020/03/02331301-Cable-Standing-Rear-Delt-Row-with-
rope_shoulder_360.gif"></image>
```

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

```
<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/12/00911301-Barbell-Seated-Overhead-
Press_Shoulders_360.gif"></image>
```

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

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

```
<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/01621301-Cable-Front-
Raise_Shoulders_360.gif"></image>
```

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

```
<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/01611301-Cable-Forward-
Raise_Shoulders_360.gif"></image>
```

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

```
<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/04381301-Dumbbell-W-
press_Shoulders_360.gif"></image>
```

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

```
</center>
</div>
```

```
<div id="Legs1" style="display: none;">
```

```
<center><h1>Legs Exercises</h1>
```



```
<br/>
<br/>

<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/10611301-Barbell-one-leg-hip-
thrust_Hips_360.gif"></image>

  <br/>
</span>

<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/hyperextension-
hyperextensions_geraet_ohne_gewicht-360x200.gif"></image>

  <br/>
</span>

<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/12/14621301-Barbell-Full-Squat-Side-
POV_Thighs_360.gif"></image>

  <br/>
</span>

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

<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/12/27281301-StrongMan-Front-Chest-
Squat_Weightlifting_360.gif"></image>

  <br/>
</span>

<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/14101301-Barbell-Lateral-Lunge_Hips_360-
1.gif"></image>

  <br/>
</span>

<span class="exer">
  <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/08111301-Trip-Bar-
Deadlift_Thighs_360.gif"></image>
```

```

        <br/>
    </span>

</center>
</div>

<div id="Back1" style="display: none;">

    <center><h1>Back Exercises</h1>
    <br/>
    <br/>

    <span class="exer">
        <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/hyperextension-
hyperextensions_geraet_ohne_gewicht-360x200.gif"></image>

        <br/>
    </span>

    <span class="exer">
        <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/00271301-Barbell-Bent-Over-Row_Back-
FIX_360.gif"></image>

        <br/>
    </span>

    <span class="exer">
        <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/02921301-Dumbbell-Bent-over-
Row_back_Back_360.gif"></image>

        <br/>
    </span>

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

    <span class="exer">
        <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/07491301-Smith-Bent-Knee-Good-morning_Hips_360-
360x200.gif"></image>

        <br/>
    </span>

```

```

        <span class="exer">
            <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/00151301-Assisted-Parallel-Close-Grip-Pull-
up_Back_360-360x200.gif"></image>

            <br/>
        </span>

        <span class="exer">
            <image id="exerimage" src="http://newlife.com.cy/wp-
content/uploads/2019/11/01201301-Barbell-Upright-Row_shoulder_360-
360x200.gif"></image>

            <br/>
        </span>

    </center>
</div>

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

    <footer class="page-footer font-small blue" >
        <div class="footer-copyright text-center py-3" id="myFooter">
            <a
href="http://newlife.com.cy/en/page/11/?s=back+exercise">More about
Exercises</a>
        </div>
    </footer>

<script>
function show(name){

    var i = document.getElementById("exercise");

    i.style.display ="block";

    if(name == "Biceps"){

        i.innerHTML = document.getElementById("Biceps1").innerHTML;

    }else if(name == "Triceps"){

        i.innerHTML = document.getElementById("Triceps1").innerHTML;

    }else if(name == "Chest"){

        i.innerHTML = document.getElementById("Chest1").innerHTML;

```

```

}else if(name == "Shoulder"){

i.innerHTML = document.getElementById("Shoulder1").innerHTML;

}else if(name == "Legs"){

i.innerHTML = document.getElementById("Legs1").innerHTML;

}else{

    i.innerHTML = document.getElementById("Back1").innerHTML;

}

window.scrollTo(0,650)

}
</script>
</body>
</html>

```

#### ➤ Code for Error Page:

```

<html>

<head>
    <Title> Error Page</Title>
</head>

    <Body style="background-color: #000000; color: aliceblue">
        <Center>
            <h1>Error Occured</h1>
            <image src = "https://c.tenor.com/CLgKE5rCzZ0AAAAS/workout-dance.gif" style="height: 300px; width: 300px">
            </image>
            <p> This is an error page</p>
        </Center>

    </Body>

```

#### ❖ Conclusion:

The website can easily be accessible by general end user with the help of the link provided and hence we were able to host our website on Amazon web services.