

INSTRUCTIONS:

Goal of the Project:

In class 110, you learned about a pre-trained model in machine learning known as Mobilenet. You have also started with the HTML and CSS code for the Image Identification web application.

CASE STUDY - In this project, you will create a website to host the CASE STUDY between your Image Identification web application (which you are making in the current class) and Microsoft Azure. This Project goal is very big to be completed in a single project, so don't worry about it, just follow the instructions and complete the current project.

Microsoft Azure is a popular Image Identification web application.

WHAT DOES CASE STUDY MEAN: This is a process of doing research into the development of a particular person, group, or situation over a period of time. Here you have to do a CASE STUDY on an application.

The goal of this project is to create a website template for the case study.

Story:

Robotics private limited is a big company which deals with building robots and machines. And recently they have started building a robot that will be used for Image Identification. So they are confused on deciding which method to use:


- Microsoft Azure
- OR
- Use Mobilenet.

So to get rid of this confusion they want someone who is working with Mobilenet model to do a case study/research on which of the methods is more accurate.


So you are required to do a CASE STUDY between your application (which you are making in the class 110) which uses **Mobilenet** and The Microsoft Azure.

Let's first start with designing the template.

CASE STUDY



1. Test Image -



Output on **Microsoft Azure** - **Bottle**
Output on **Mobilenet Model** - **Water Bottle**

Result -

Mobilenet Model Is More Accurate

Developed by - WhitehatJr Team

***The above image is just for reference, we expect you to explore your creativity and make a beautiful and good looking HTML page for the web application.**

To get a proper idea of the website open this [link](#) (just for reference).

Getting Started:

1. Create a folder with a name **case-study-project**.

2. Create **index.html** and **style.css** files in the folder.

Specific Tasks to complete the Project:

You have to create a website template for the case study, this website should have the following things:

1. An image which is used for testing which model is more accurate, Azure or Mobilenet.
2. For the result from Azure.
 - Define an empty span/p/any tag, and keep the text empty, in the next project we will fill the text for this.
3. For the result came from your Mobilenet
 - Define an empty span/p/any tag, and keep the text empty, in the next project we will fill the text for this.
4. A mini conclusion for stating who is more accurate.
 - Define an empty span/p/any tag, and keep the text empty, in the next project we will fill the text for this.
5. An overall conclusion which mentioned how many images are used, and according to you which method is most accurate.
 - Define an empty span/p/any tag, and keep the text empty, in the next project we will fill the text for this.
 - Use **ol tag** for keeping the images and results in sequence.

For better understanding of the **above points** you can refer to the **below image**.

| | |
|--|---|
| <code></code> | Ol tag for keeping things in sequence. |
| <code><div class="text_images_and_result"></code> | Defining a div to hold first test image and its result |
| <code></code> | Defining first li tag |
| <code>Test Image - </code> | Defining first image tag to hold first test image |
| <code></code> | |
| <code><h5>Output on Microsoft Azure -</code> | Defining text for Microsoft Azure |
| <code> </code> | Defining span tag and keeping it empty. We will update this span tag in the next project with result of Azure. |
| <code></h5></code> | |
| <code><h5>Output on Mobilenet Model -</code> | Defining text for mobilenet model |
| <code> </code> | Defining span tag and keeping it empty. We will update this span tag in the next project with result of mobilenet model |
| <code></h5></code> | |
| <code><div class="bob3"></code> | Defining a div to hold a result. |
| <code><h4>Result - </h4></code> | Defining h4 tag and keeping it empty. We will update this h4 tag in the next project with the result of comparison between mobilenet model and Azure. |
| <code><hr></code> | |
| <code><h4> </h4></code> | |
| <code></div></code> | |
| <code></div></code> | |
| <code><hr></code> | |

Like the above image you need to code for all the images you have used. The above image is just for reference, use your creativity and make the HTML page.

Submitting the Project:

1. Create a folder **case-study-project** and upload all the files related to the **case-study-project** project on GitHub. You can get the steps to do this by clicking on this [link](#).
2. Copy the hosted link which you will get after uploading all your files on GitHub and submit it in the Student Dashboard Projects panel against the correct class number.

Hints:

1. For knowing more about **ol tag** visit this [link](#).
2. To add images of objects on your webpage:
 - Get at least 10 objects from your home on which you want to do a test, it can be anything like- water bottle, ring, pillow, bed, hangers, mobile, glass, spoon, switchboard, fan, soap, air conditioner, etc.
 - Click images of them by using the camera of your phone.
 - After clicking the images of the objects, **keep all the images at a safe place** because you will be needing these images in the upcoming projects, so that we can give these images to each of the models to identify.
 - Then send those images from your phone to your laptop, if you already know to send images from phone to laptop then great.
 - If you don't know how to send images from your phone to your laptop then watch this [video](#).
 - After getting all the images on your gmail, open the gmail account from your laptop and download the images in your laptop, and then put all these images in the **case-study-project** folder. And rename those images, and one by one put these images in the **src of the img tag**.
 - For eg, the following code to display these images on your web page.

```

```

3. For the add conclusion section refer to the last section of this [link](#).

ADVANCE

CASE STUDY - 1



REMEMBER... Try your best, that's more important than being correct.

After submitting your project your teacher will send you feedback on your work.

————— xxx ————— xxx ————— xxx ————— xxx ————— xxx —————