PROJECT DEVELOPMENT PHASE

NATURAL DISASTERS INTENSITY ANALYSIS AND CLASSIFICATION USING ARTIFICIAL INTELLIGENCE PNT2022TMID34563

Sprint -1 (DESIGN AN WEB APPLICATION) As

per Sprint delivery plan, Sprint-1 includes:

USER STORY NUMBER -1:

Design a web application which facilitates the image input.

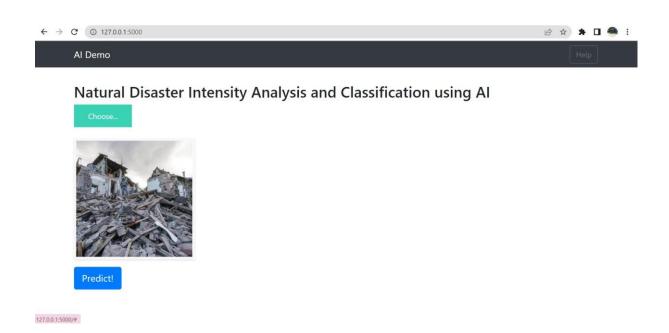
CODE FOR WEB APPLICATION: index.html:

```
{% extends "base.html" %} {% block content %}
<h2>Natural Disaster Intensity Analysis and
Classification using AI</h2>
<div>
    <form id="upload-file" method="post"</pre>
enctype="multipart/form-data">
        <label for="imageUpload" class="upload-label">
            Choose...
        </label>
        <input type="file" name="file" id="imageUpload"</pre>
accept=".png, .jpg, .jpeg">
    </form>
    <div class="image-section" style="display:none;">
               <div class="img-preview">
            <div id="imagePreview">
            </div>
```

```
</div>
        <div>
            <button type="button" class="btn btnprimary</pre>
btn-lg " id="btn-predict">Predict!</button>
        </div>
    </div>
    <div class="loader" style="display:none;"></div>
    <h3 id="result">
        <span> </span>
    </h3>
</div>
{% endblock %}
STATIC FILES: main.css
.img-preview { width: 256px; height: 256px;
position: relative; border: 5px solid #F8F8F8;
box-shadow: 0px 2px 4px 0px rgba(0, 0, 0, 0.1);
margin-top: 1em; margin-bottom: 1em;
}
.img-preview>div { width:
100%; height: 100%;
background-size: 256px 256px;
background-repeat: no-repeat;
background-position: center;
input[type="file"] {
display: none;
}
```

```
.upload-label{
display: inline-block;
padding: 12px 30px;
background: #39D2B4;
color: #fff;
                font-
size: 1em; transition:
all .4s;
         cursor:
pointer;
}
.upload-label:hover{
background: #34495E; color:
#39D2B4;
}
 .loader { border: 8px solid #f3f3f3; /*
Light grey */ border-top: 8px solid
#3498db; /* Blue */ border-radius: 50%;
width: 50px; height: 50px;
    animation: spin 1s linear infinite;
}
@keyframes spin {
    0% { transform: rotate(0deg); }
    100% { transform: rotate(360deg); }
}
main.js:
$(document).ready(function () {
// Init
    $('.image-section').hide();
    $('.loader').hide();
    $('#result').hide();
```

```
// Upload Preview
                          function readURL(input) {
if (input.files && input.files[0]) {
var reader = new FileReader();
reader.onload = function (e) {
$('#imagePreview').css('backgroundimage', 'url(' +
e.target.result + ')');
                $('#imagePreview').hide();
                $('#imagePreview').fadeIn(650);
reader.readAsDataURL(input.files[0]);
        }
    }
    $("#imageUpload").change(function () {
        $('.image-section').show();
        $('#btn-predict').show();
        $('#result').text('');
        $('#result').hide();
        readURL(this);
    });
    // Predict
    $('#btn-predict').click(function () {
var form data = new
FormData($('#uploadfile')[0]);
        // Show loading animation
        $(this).hide();
        $('.loader').show();
        // Make prediction by calling api /predict
        $.ajax({
type: 'POST',
                          url:
'/predict',
                        data:
form data,
contentType: false,
```



Once we click the choose button, it will let the user to upload the image file present in his local directory.



Natural Disaster Intensity Analysis and Classification using Al



127.0.0.1:5000/#