

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"
enctype="multipart/form-data">
        <label for="imageUpload" class="upload-label">
            Choose...
        </label>
        <input type="file" name="file" id="imageUpload"
accept=".png, .jpg, .jpeg">
    </form>

    <div class="image-section" style="display:none;">
        <div class="img-preview">
            <div id="imagePreview">
            </div>
        </div>
    </div>
</div>
```

```

        </div>
        <div>
            <button type="button" class="btn btnprimary
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,

```

```

cache: false,
processData: false,
async: true,
        success: function (data) {
            // Get and display the result
            $('#loader').hide();
            $('#result').fadeIn(600);
$('#result').text(' Result: ' + data);
console.log('Success!');
        },
    });
});

});

```

WEB APPLICATION DESIGN



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



127.0.0.1:5000



AI Demo

Help

Natural Disaster Intensity Analysis and Classification using AI

Choose...

127.0.0.1:5000/#