#### PROJECT DEVELOPMENT PHASE

# NATURAL DISASTERS INTENSITY ANALYSIS AND CLASSIFICATION USING ARTIFICIAL INTELLIGENCE

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## **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:**

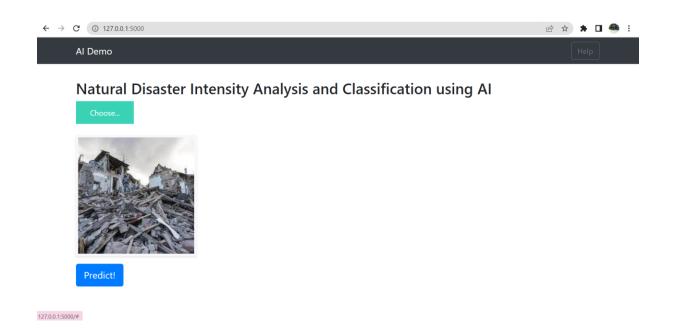
```
<div class="img-preview">
            <div id="imagePreview">
            </div>
        </div>
        <div>
            <button type="button" class="btn btn-</pre>
primary btn-lg " id="btn-predict">Predict!</button>
        </div>
    </div>
    <div class="loader" style="display:none;"></div>
    <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('background-
image', '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
    $('#btn-predict').click(function () {
        var form data = new FormData($('#upload-
file')[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.



Natural Disaster Intensity Analysis and Classification using Al



127.0.0.1:5000/#