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:

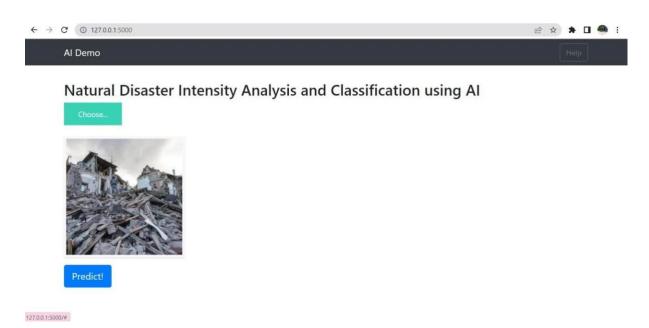Design a web application which facilitates the image input.

CODE FOR WEB APPLICATION: 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>
```

```html
        <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

:

```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:
```

```css
12px 30px;    background:
#39D2B4;     color: #fff;
fontsize: 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 :

```javascript
$(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) {
```

```javascript
$('#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.

AI Demo

Natural Disaster Intensity Analysis and Classification using AI

Choose...