Love Struck Valentinos

Saad Arshad Pervez Mughal
Zoljargal Enkhbayar(Sunny)
Mujahid Mohammed

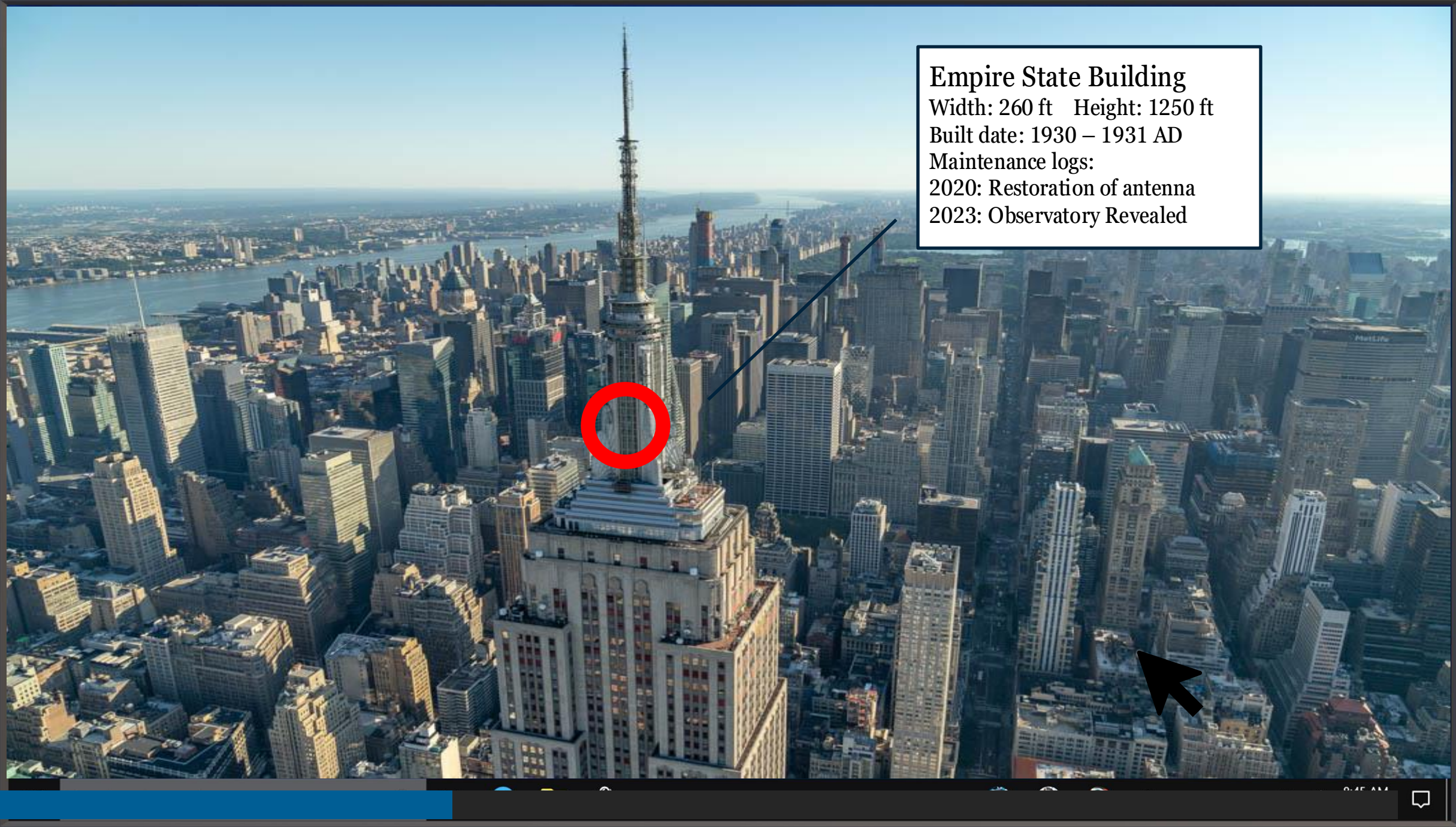
IDS & SCSU Hackathon
Feb. 2025 Challenge

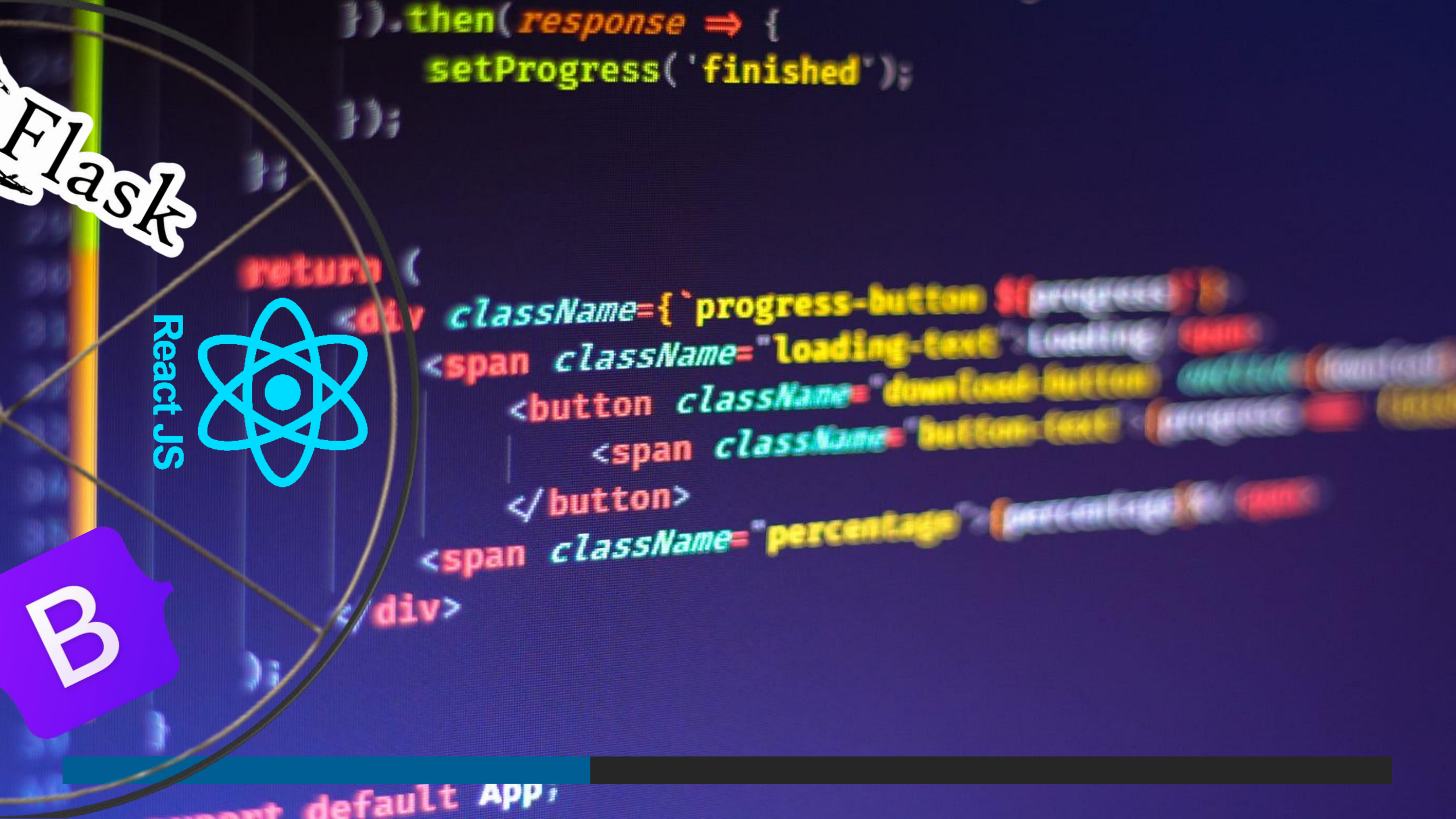
Jaymin Swedlund
Safal Karki
Pemang Sang Sherpa(Sang)

Introduction

Problem Statement:
IDS aims to enable users to add view and edit update POIS in a 360 view

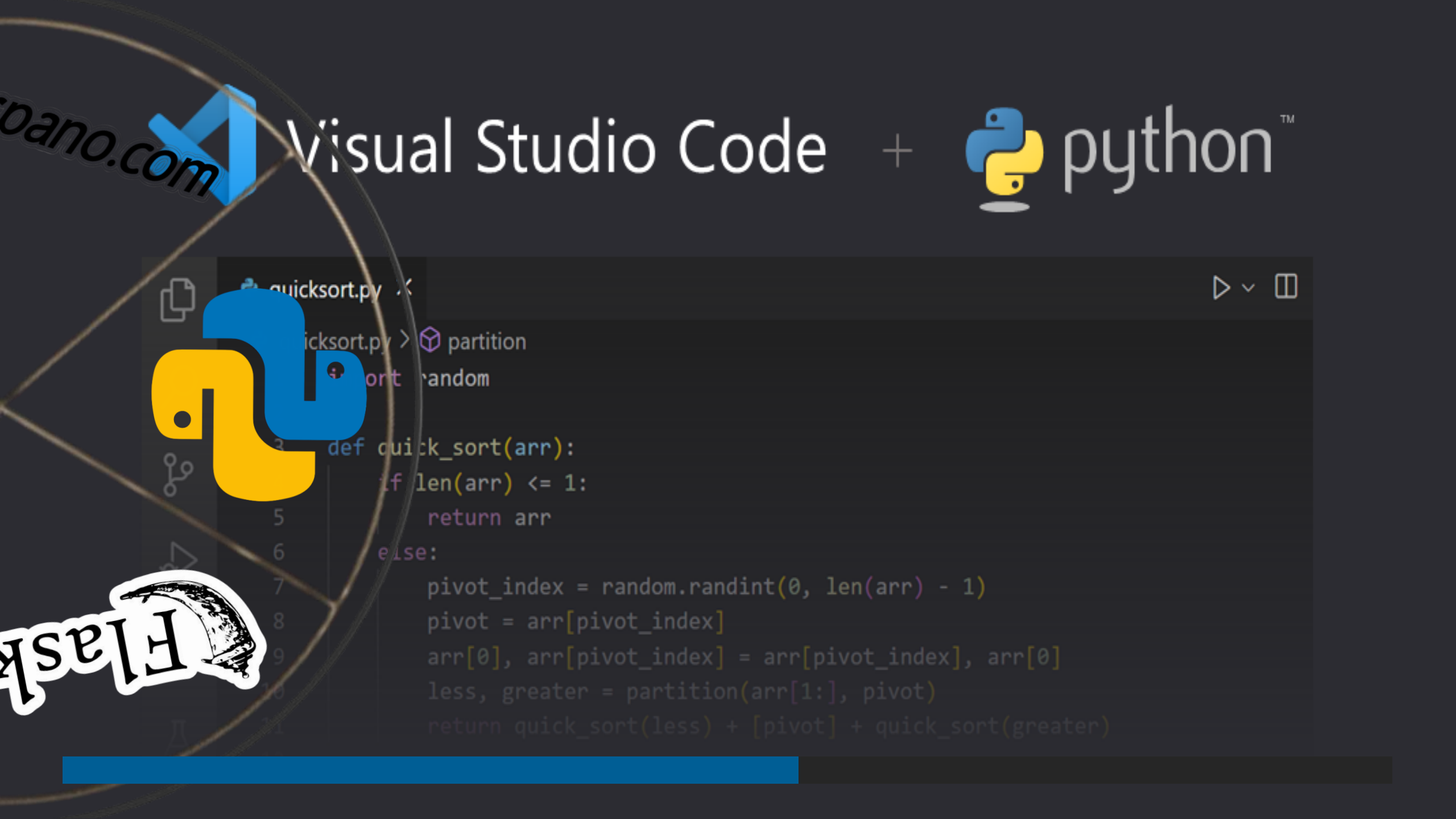
Solution: We leveraged Krpano's inbuilt functions and we implemented react components that handled mouse interactions with Krpano. This enabled us to create, delete, and modify hotspots.

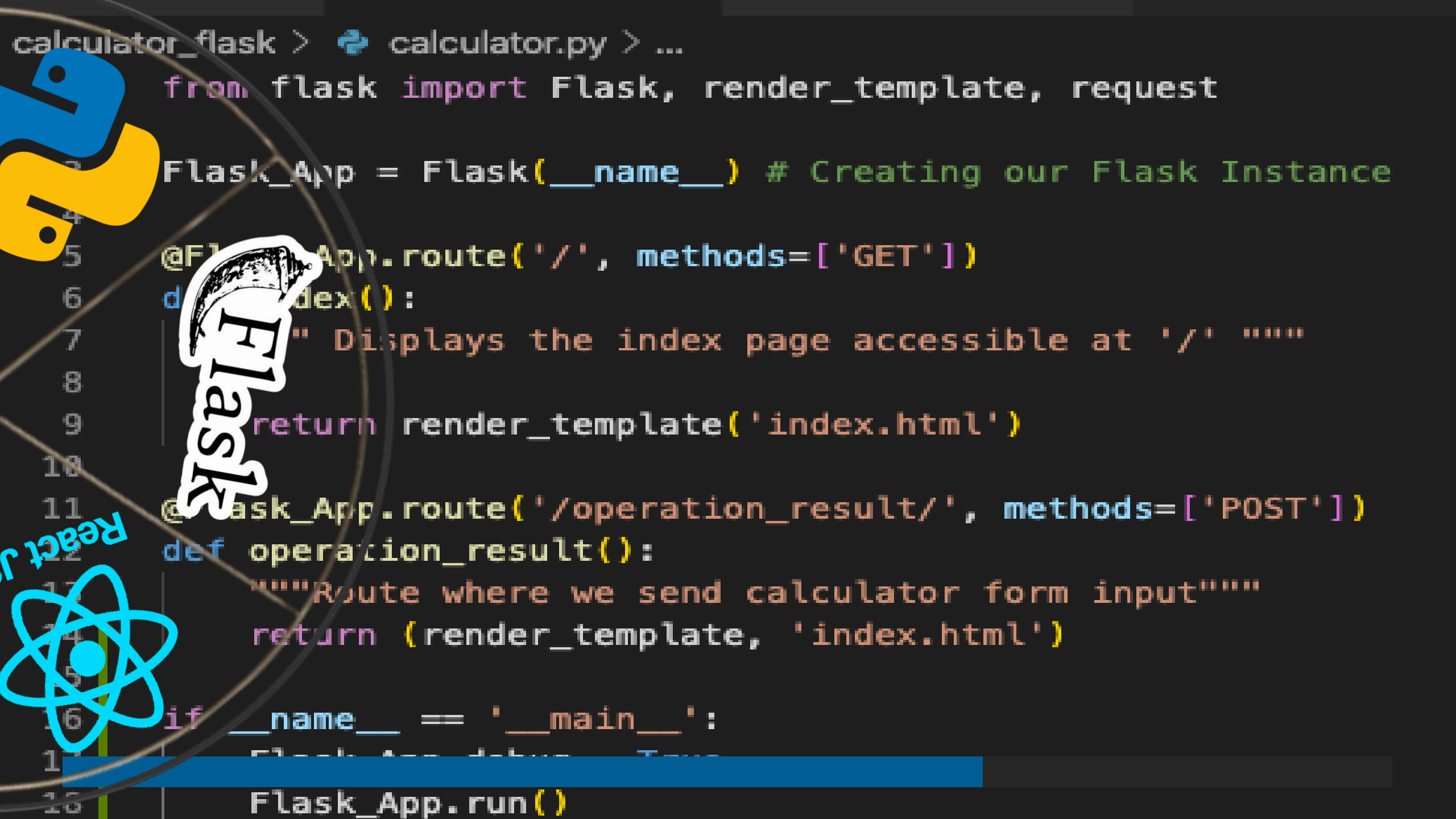

Empire State Building
Width: 260 ft Height: 1250 ft
Built date: 1930 – 1931 AD
Maintenance logs:
2020: Restoration of antenna
2023: Observatory Revealed


Flask
React JS
B
}).then(response => {
setProgress('finished');
});
return (
<div className={`progress-button
<span className="loading-text
<button className="download-button
<span className="button-text
</button>
<span className="percentage

export default App;

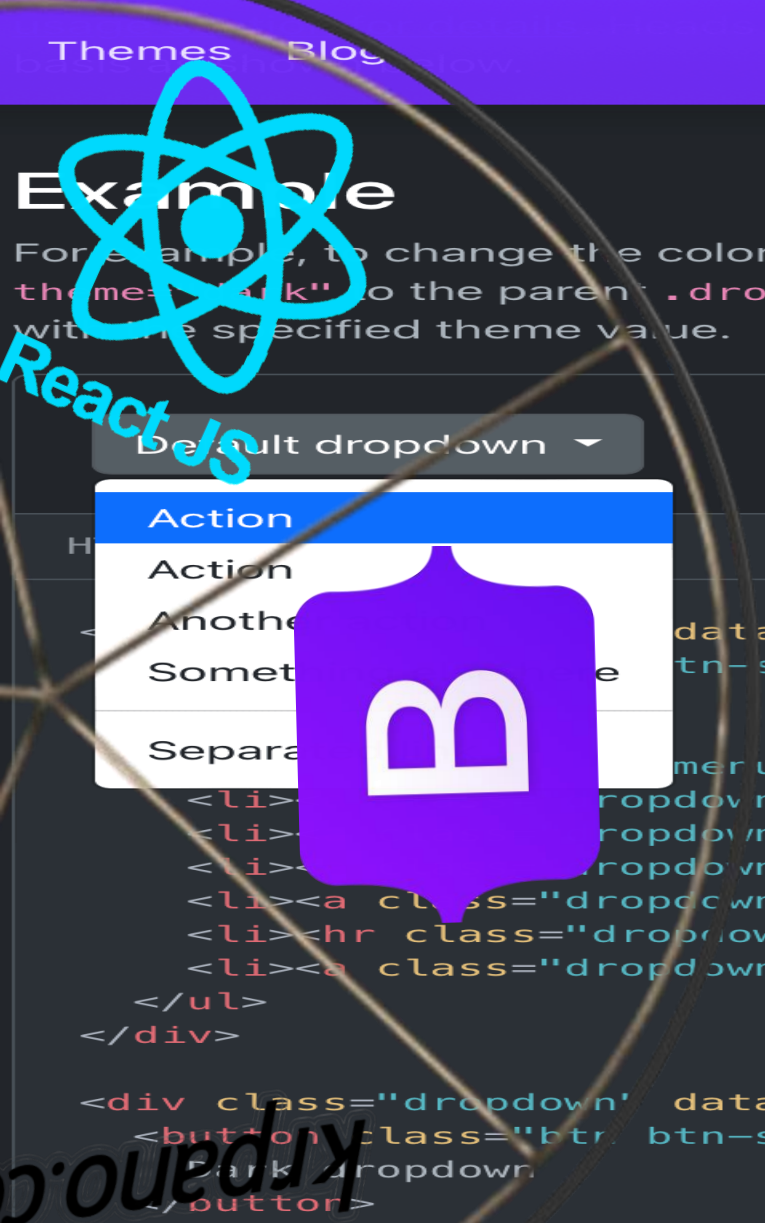
Select Mode
Add Hotspot Mode
krpano.com
krpano
demo version


Visual Studio Code
+
python
quicksort.py
partition
def quick_sort(arr):
if len(arr) <= 1:
return arr
else:
pivot_index = random.randint(0, len(arr) - 1)
pivot = arr[pivot_index]
arr[0], arr[pivot_index] = arr[pivot_index], arr[0]
less, greater = partition(arr[1:], pivot)
return quick_sort(less) + [pivot] + quick_sort(greater)


calculator_flask > calculator.py > ...
from flask import Flask, render_template, request
Flask_App = Flask(__name__) # Creating our Flask Instance
@Flask_App.route('/', methods=['GET'])
def index():
" Displays the index page accessible at '/' """
return render_template('index.html')
@Flask_App.route('/operation_result/', methods=['POST'])
def operation_result():
"""Route where we send calculator form input"""
return (render_template, 'index.html')
if __name__ == '__main__':
Flask_App.run()
Flask
React

Example

For example, to change the color mode of a dropdown menu, add data-bs-theme="light" or data-bs-theme="dark" to the parent .dropdown. Now, no matter the global color mode, these dropdowns will display with the specified theme value.




```
<div class="dropdown" data-bs-theme="light">
  <button class="btn btn-secondary dropdown-toggle" type="button" id="dropdownMenuButto
  <ul class="dropdown-menu" aria-labelledby="dropdownMenuButtonLight">
    <li><a class="dropdown-item active" href="#">Action</a></li>
    <li><a class="dropdown-item" href="#">Action</a></li>
    <li><a class="dropdown-item" href="#">Another action</a></li>
    <li><a class="dropdown-item" href="#">Something else here</a></li>
    <li><hr class="dropdown-divider"></li>
    <li><a class="dropdown-item" href="#">Separated link</a></li>
  </ul>
</div>

<div class="dropdown" data-bs-theme="dark">
  <button class="btn btn-secondary dropdown-toggle" type="button" id="dropdownMenuButto
    Dark dropdown
  </button>
  <ul class="dropdown-menu" aria-labelledby="dropdownMenuButtonDark">
    <li><a class="dropdown-item active" href="#">Action</a></li>
    <li><a class="dropdown-item" href="#">Action</a></li>
    <li><hr class="dropdown-divider"></li>
    <li><a class="dropdown-item" href="#">Separated link</a></li>
```

Demo

MILESTONES

- ✅ Milestone 1 - POI Creation
- ✅ Milestone 2 - POI Data Display
- ✅ Milestone 3 - Spatial Accuracy
- ✅ Milestone 4 - POI Management
- ⏸ Milestone 5 - Integrate into React UI

Looking Forward

- Implement an ML Model we would integrate react logic
- Implement a third side bar that would have a list from our database that would focus in on a hotspot
- The ability to change the ID dynamically.
- Adding a UI to upload a 360 image xml file to view with our app.
- Exporting a copy of JSON to a database using PostgreSQL