

Real Time Tracking and Analysis of COVID Hotspots

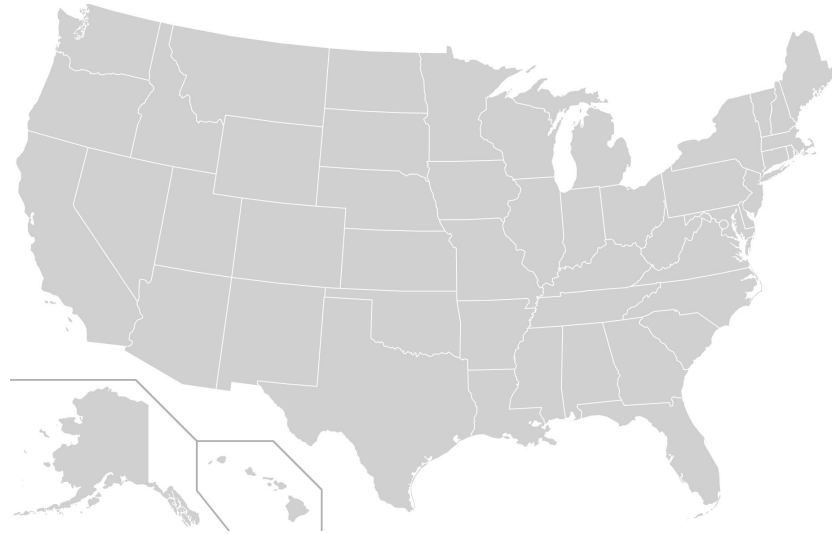
Demir Demirsoy

Berk Mankaliye

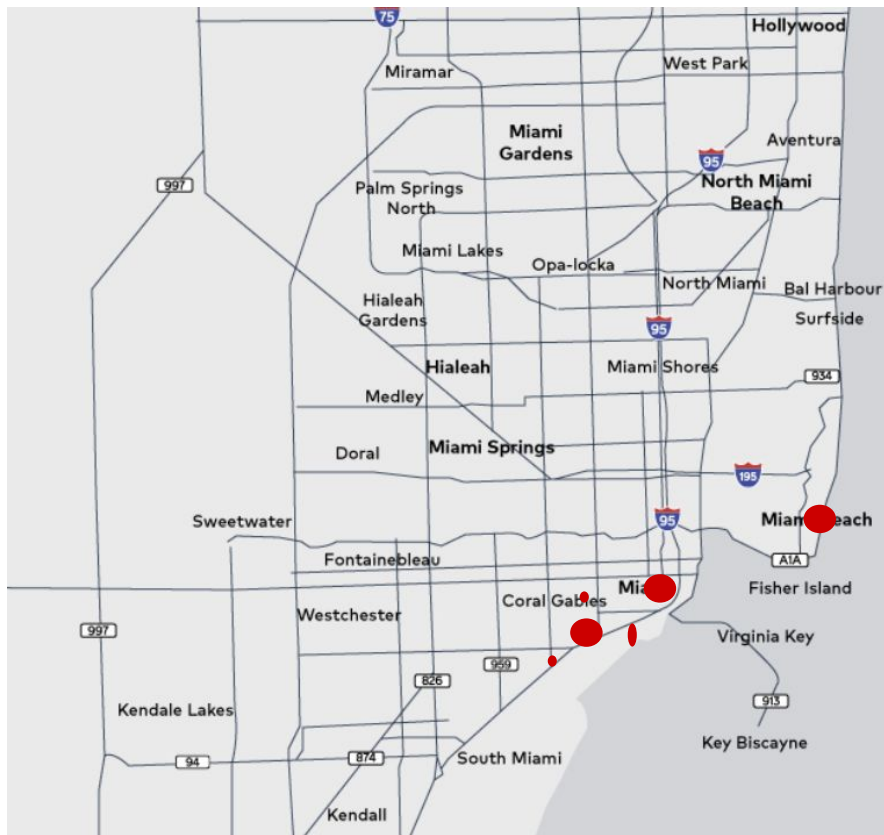
Arjun Misra

Conceptualization

- ❖ An easy to navigate COVID-19 tracking website
- ❖ Benefits:
 - Search any US ZIP code and view current number of cases and hotspots
 - Lookup area history up to a month prior to current date
 - Lookup A.I. simulated future predictions for up to two weeks
- ❖ Data acquired from confirmed sources



Enter Zip Code, City, County, or Country...



Selected ZIP CODE:

33146

Date:

03/18/2021

Time (Eastern Time):

04:32.11 PM

Cases:

(Since 08:00 AM)

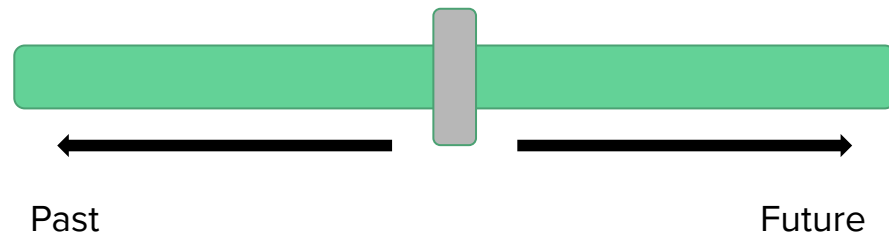
803

(Past hour)

105

Advisory:

AVOID IF POSSIBLE



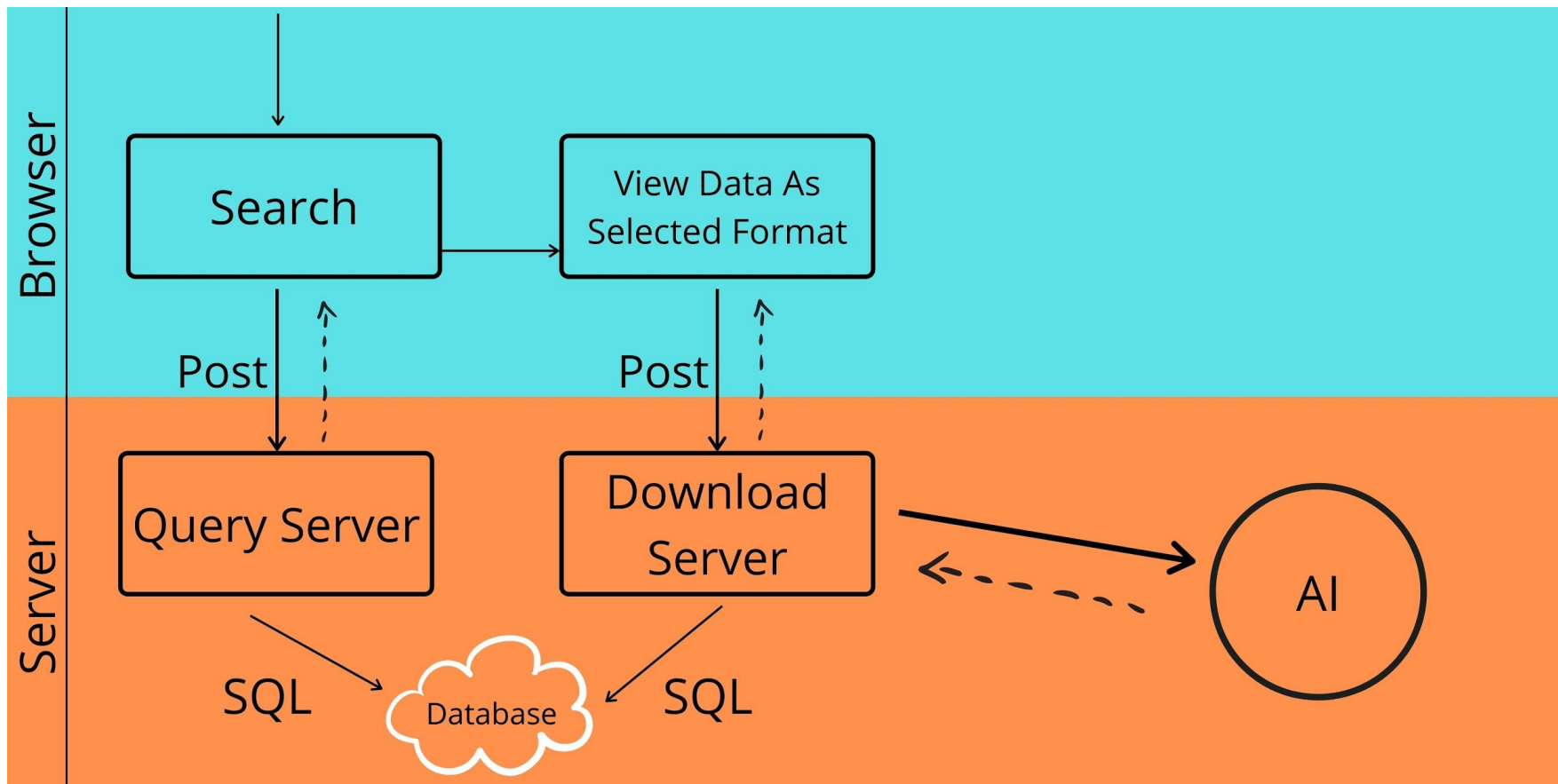
Key Functional Requirements

- ❖ Gain Instantaneous Access to COVID Data in Real Time
- ❖ View Past Data and Predicted Future Data

Key Non Functional Requirements

- ❖ Continuous, Live Updates From Server (FR1)
- ❖ Continual Reallocation of Memory (FR2)
- ❖ Simultaneous Execution and Coordination of Artificial Intelligence Algorithms

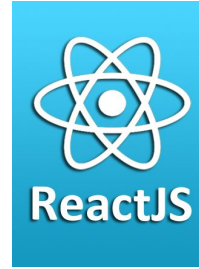
Sample Use Case



System Constraints

- ❖ Internet connection (Wireless/Cellular)
- ❖ Adobe Flash Player
- ❖ Budgeting and Accessing Reliable Data

System Constraints (cont.)



Questions?