CleanLoo: NYC Public Restroom Finder

Course: MAC101 – Intro to Computer Science

By: Mauricio Martinez

NYC's Public Restroom Problem

- Millions of NYC residents struggle to find clean, safe, and accessible public restrooms.

- Restrooms are often hidden, unclean, or inaccessible unless you ask or wander around.

- This creates issue for:
    - Commuters
    - Tourists
    - Elderly individuals
    - People with medical conditions
    - Families with children

What CleanLoo Aims to Do

- Show nearby public restrooms.
- Display :
  - Location + borough
  - ADA Accessbility
  - Opening Hours
- Allow quick filtering
- Use real NYC dataset to ensure accuracy

NYC Open Data: Public Restroom Dataset

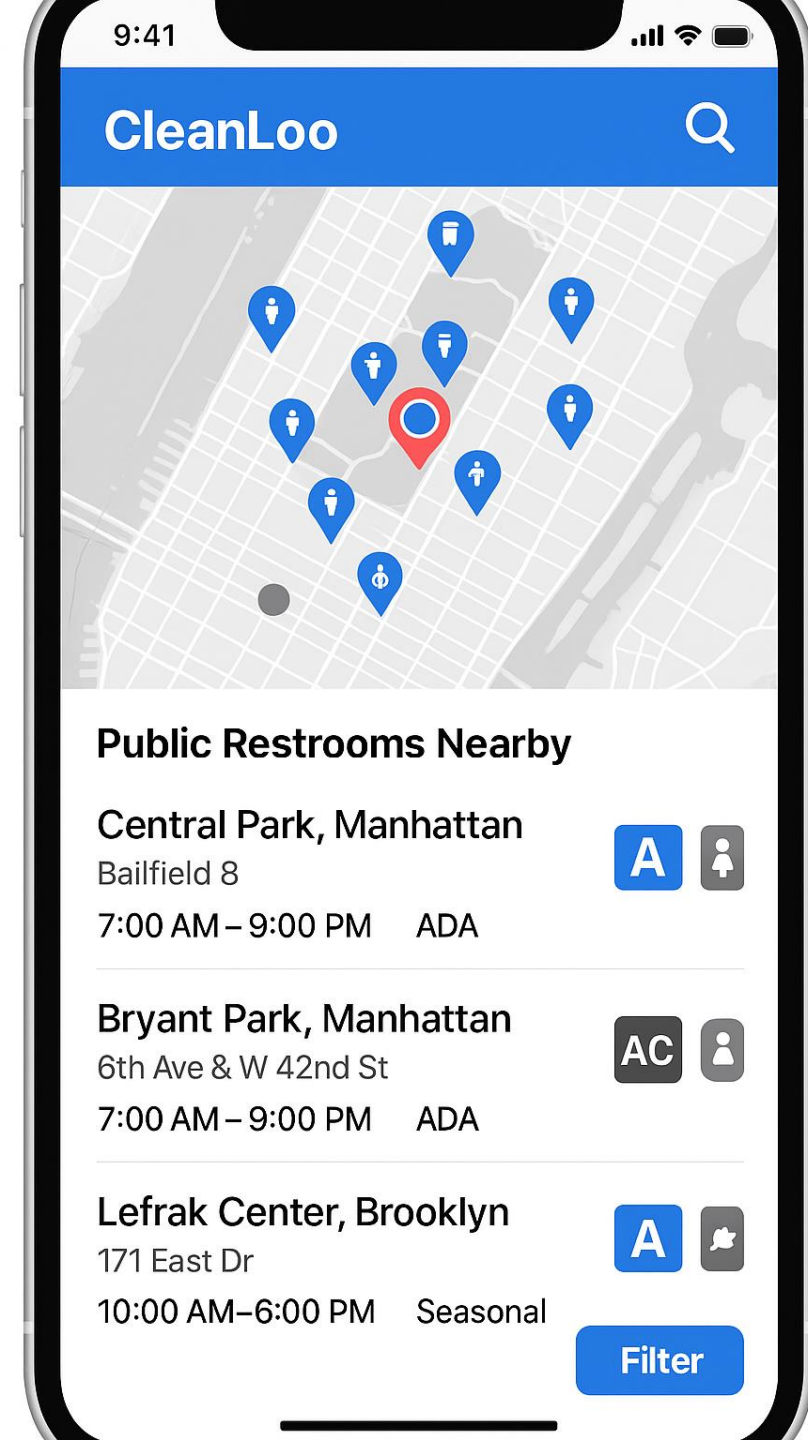- Link: https://data.cityofnewyork.us/City-Government/Public-Restrooms/i7jb-7jku/about_data
- Contains:
  - Name
  - Borough
  - Location
  - Accessibility
  - Season or year-round
  - Coordinates

How the App Works

1. Load dataset into restroomList
2. User selects:
    1. Borough
    2. Accessibility
3. Algorithm filters dataset
4. Results returned + sorted by nearest location
5. Display on list/map interface

Core Pseudocode

```
FUNCTION findRestrooms(restroomList, borough, accessible):
    results ← empty list


    FOR each restroom IN restroomList:
        IF borough == "All" OR restroom.borough == borough:
            IF accessible AND restroom.accessible != "YES":
                CONTINUE
            ENDIF
            ADD restroom TO results
        ENDIF
    ENDFOR


    RETURN results
END FUNCTION
```

Why CleanLoo Matters

- Helps millions navigate NYC more comfortably.

- Supports public health & accessibility.

- Shows how computer science + public data can solve real city problems.

Thank you