

CleanLoo: NYC Public Restroom Finder

Course: MAC101 – Intro to
Computer Science

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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 Accessibility
 - Opening Hours
- Allow quick filtering
- Use real NYC dataset to ensure accuracy



CleanLoo

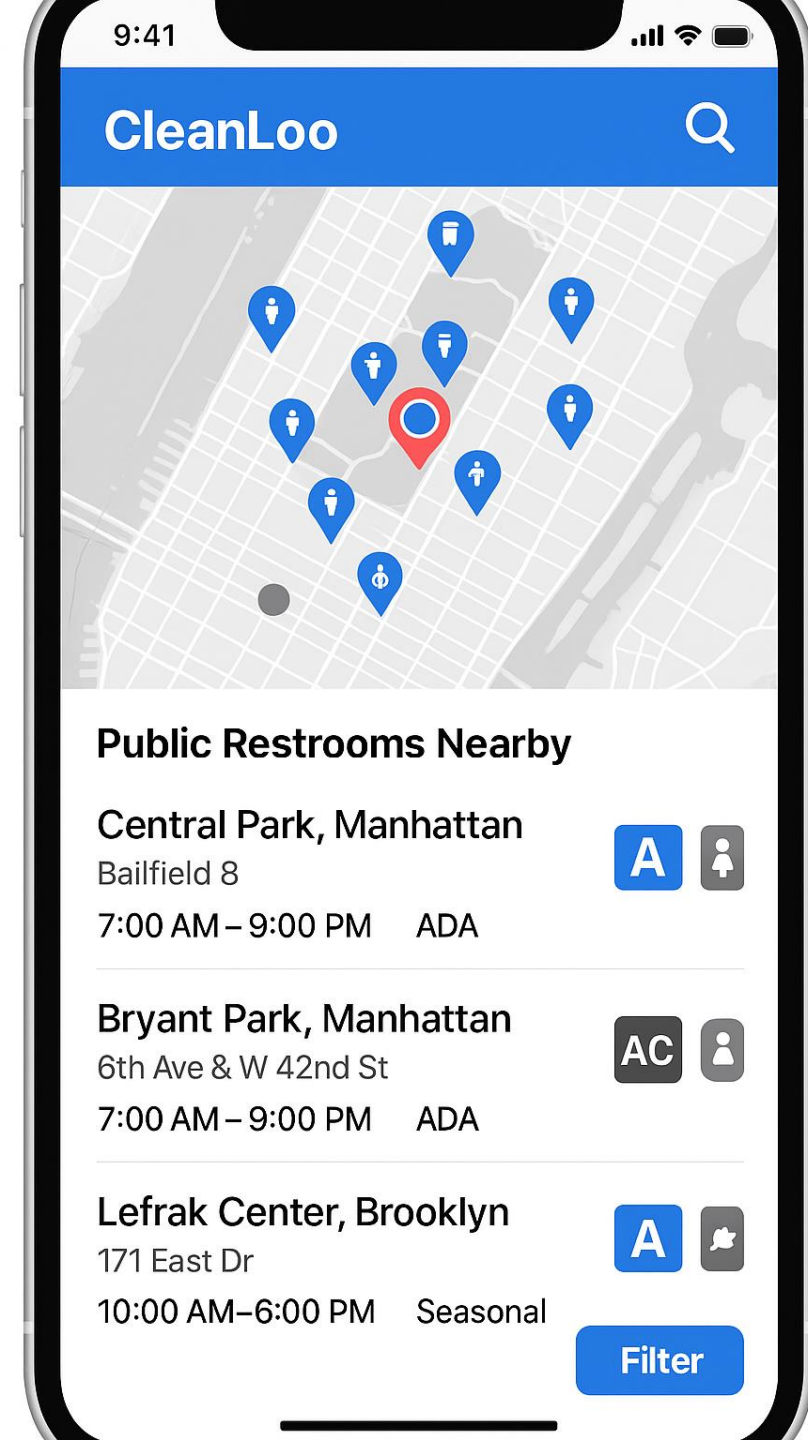
NYC Open Data: Public Restroom Dataset

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

- The CleanLoo app guides users through a simple, intuitive process to locate the nearest public restroom in NYC.
- Designed for quick access, clear navigation, and accessibility-first interaction.



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