StreetBite NYC – Smart Street Food Finder

Overview

StreetBite NYC is a simple, mobile-friendly system that helps users quickly locate clean, affordable, and currently open street-food vendors throughout New York City. The goal is to reduce guesswork by combining NYC Open Data with user ratings.

Who It Helps

- NYC residents
- Delivery drivers
- Tourists
- Commuters
- Anyone searching for reliable street food

Inputs Used

From NYC Open Data:
- Vendor name & location
- Coordinates (latitude & longitude)
- Hours of operation
- Tags (vegan, gluten-free, halal, etc.)
- Cleanliness rating (user-generated, 1–5)

From the User:
- Current location
- Maximum distance
- Minimum cleanliness rating
- Optional dietary filter

Outputs

- List of matching food vendors
- Best recommended vendor (closest + cleanest)
- Notification if no vendors match

Simplified Pseudocode

START

```
LOAD vendorList from NYC Open Data + user ratings

INPUT userLatitude
INPUT userLongitude
INPUT userMinCleanliness
INPUT userMaxDistance
INPUT dietaryFilter

SET vendorFound = false

FOR each vendor in vendorList
  READ vendorLatitude, vendorLongitude
  CALCULATE distance
  CHECK vendor hours → SET isOpen

  IF isOpen AND distance ≤ maxDistance AND
    cleanliness ≥ minCleanliness AND
    (no dietaryFilter OR vendor matches filter)
  THEN
    DISPLAY vendor info
    SET vendorFound = true
  ENDIF
END FOR

IF vendorFound == false
  DISPLAY "No matching vendors found."
END IF

END
```

C++ Connection (Simplified)

- Numbers → int or double
- Text → string
- True/false → bool
- Vendor list → vector
- FOR loop → for (int i = 0; i < vendorList.size(); i++)
- IF statements map 1-to-1 with pseudocode