



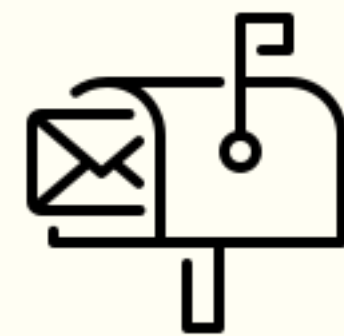
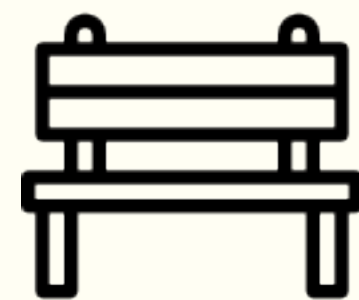
Your Ultimate Navigator For Public Services

By Jason Hua and Peter Guan

THE TOURISTS' PROBLEM

When you're in an unknown area
and you need to find a:

- Bathroom
- Device charging station
- Free Wi-Fi
- Bike rack
- Other public services

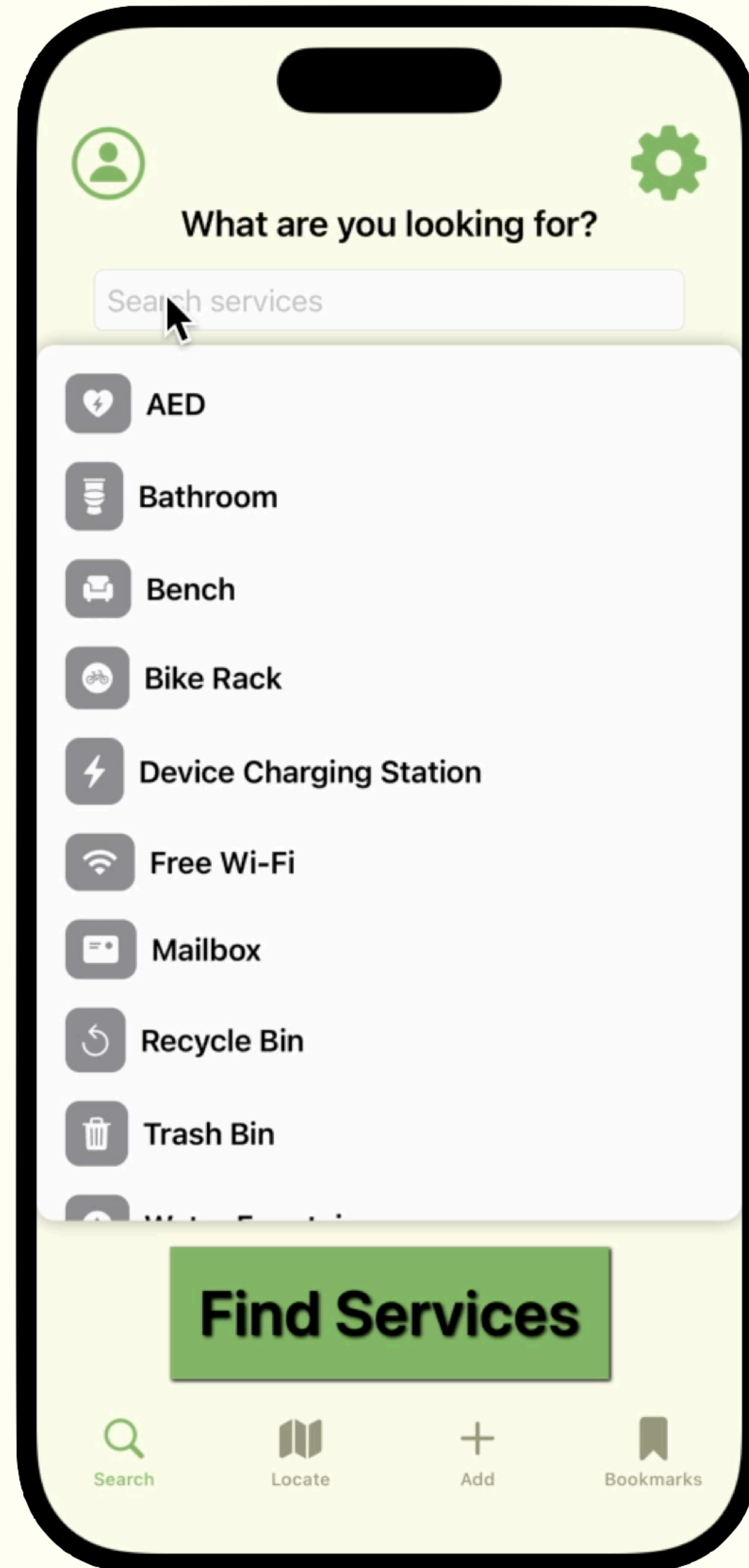


THE DEVELOPERS' SOLUTION

- WayPoint provides locations on these public services
- Gives essential info on each service
- Emphasizes accessibility and preferences



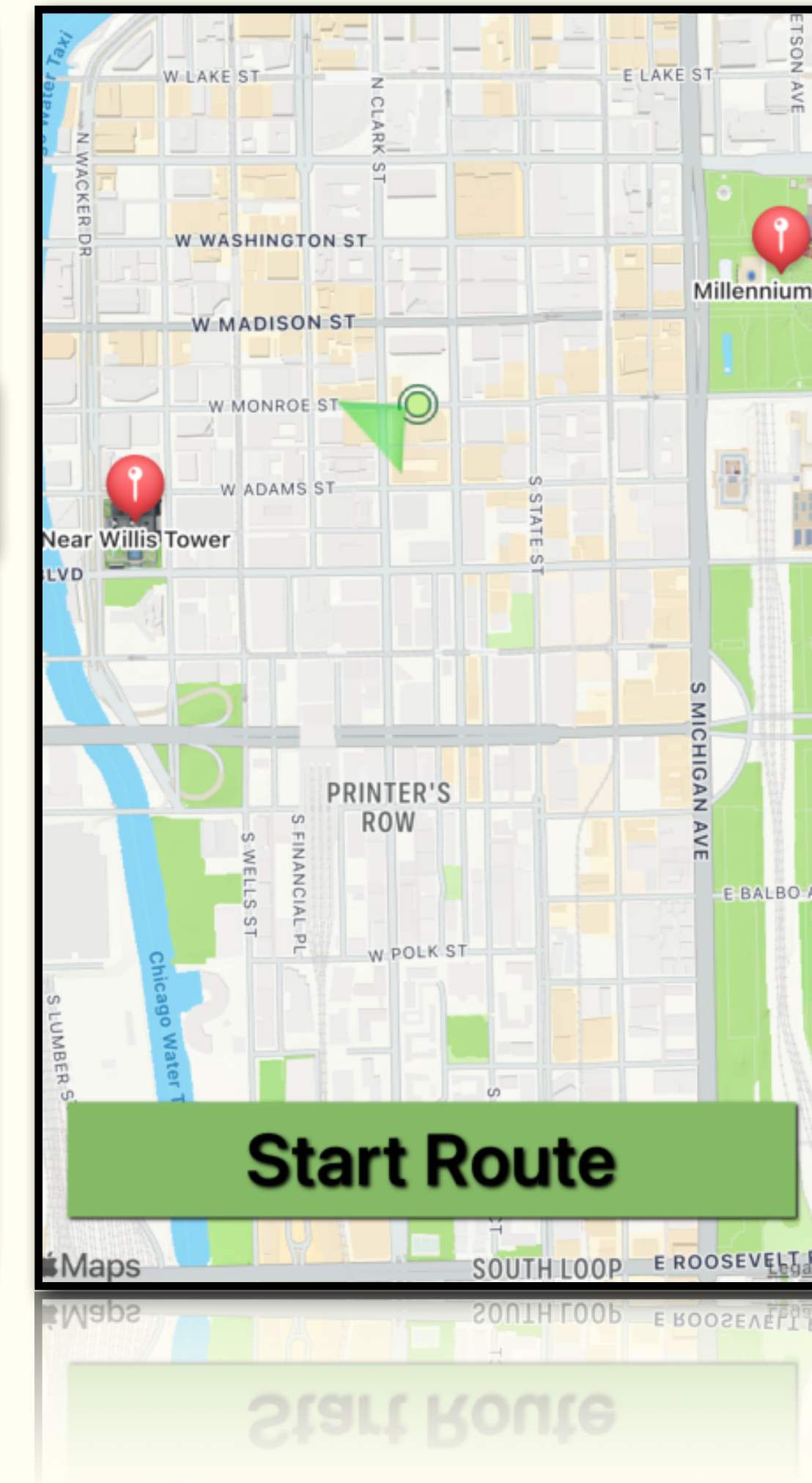
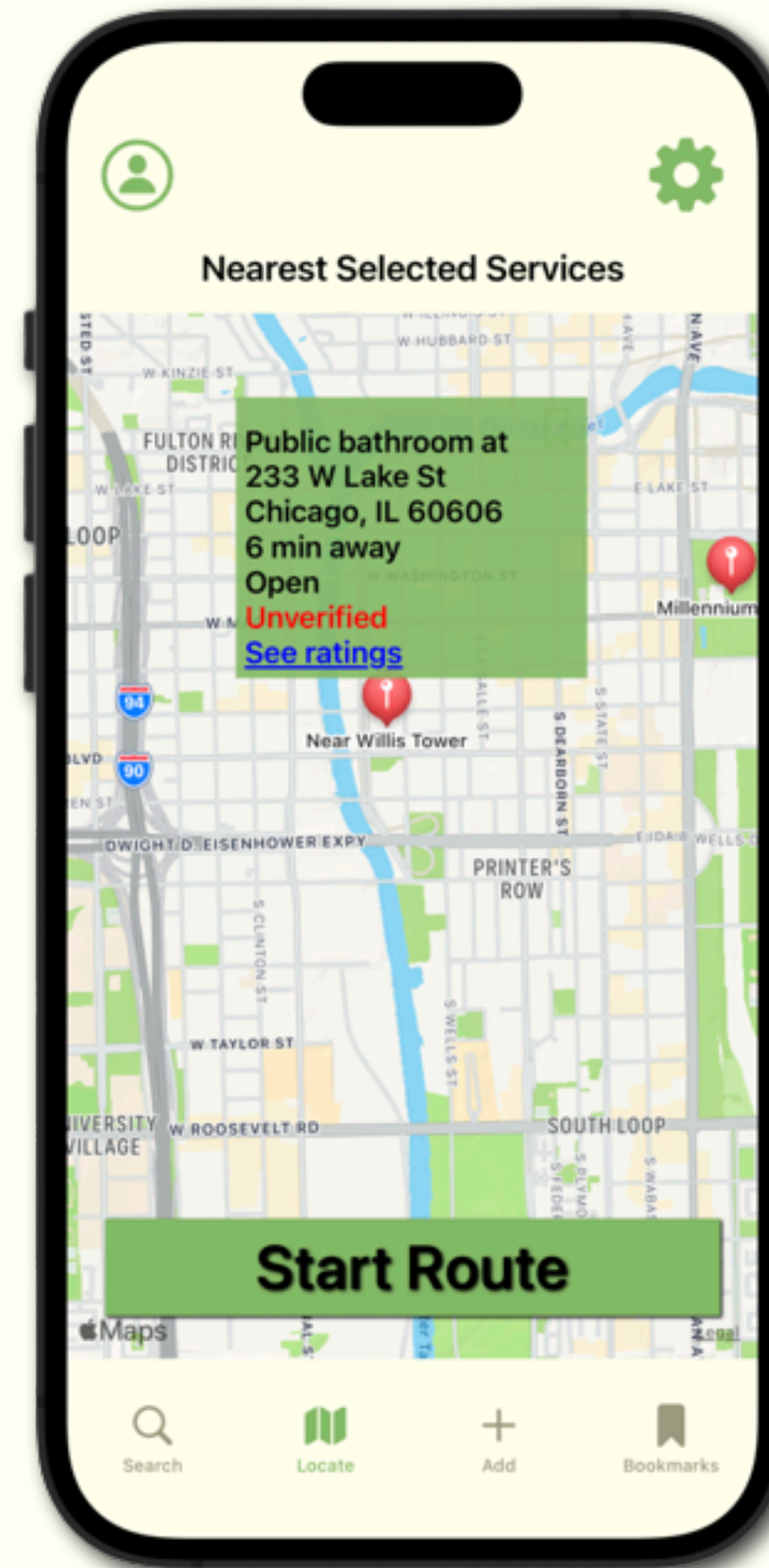
SEARCH



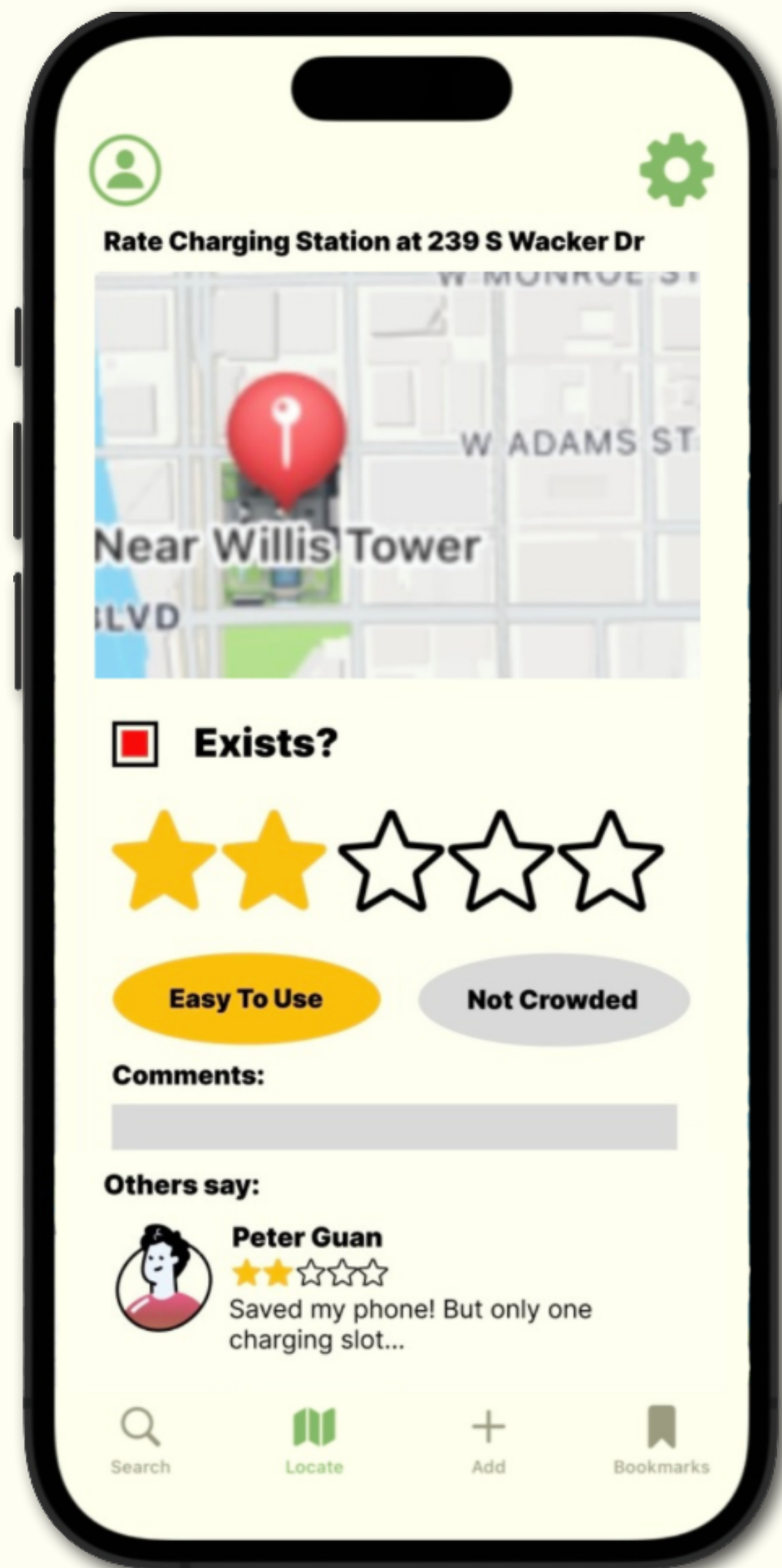
- **Various public services, always adding more**
- **Can pick multiple services**
- **Filters to cater to users' accessibility and preferences**

LOCATE

- Searches for services in a configurable radius
- Locates based on filters in the previous screen
- Tap on a location for important info



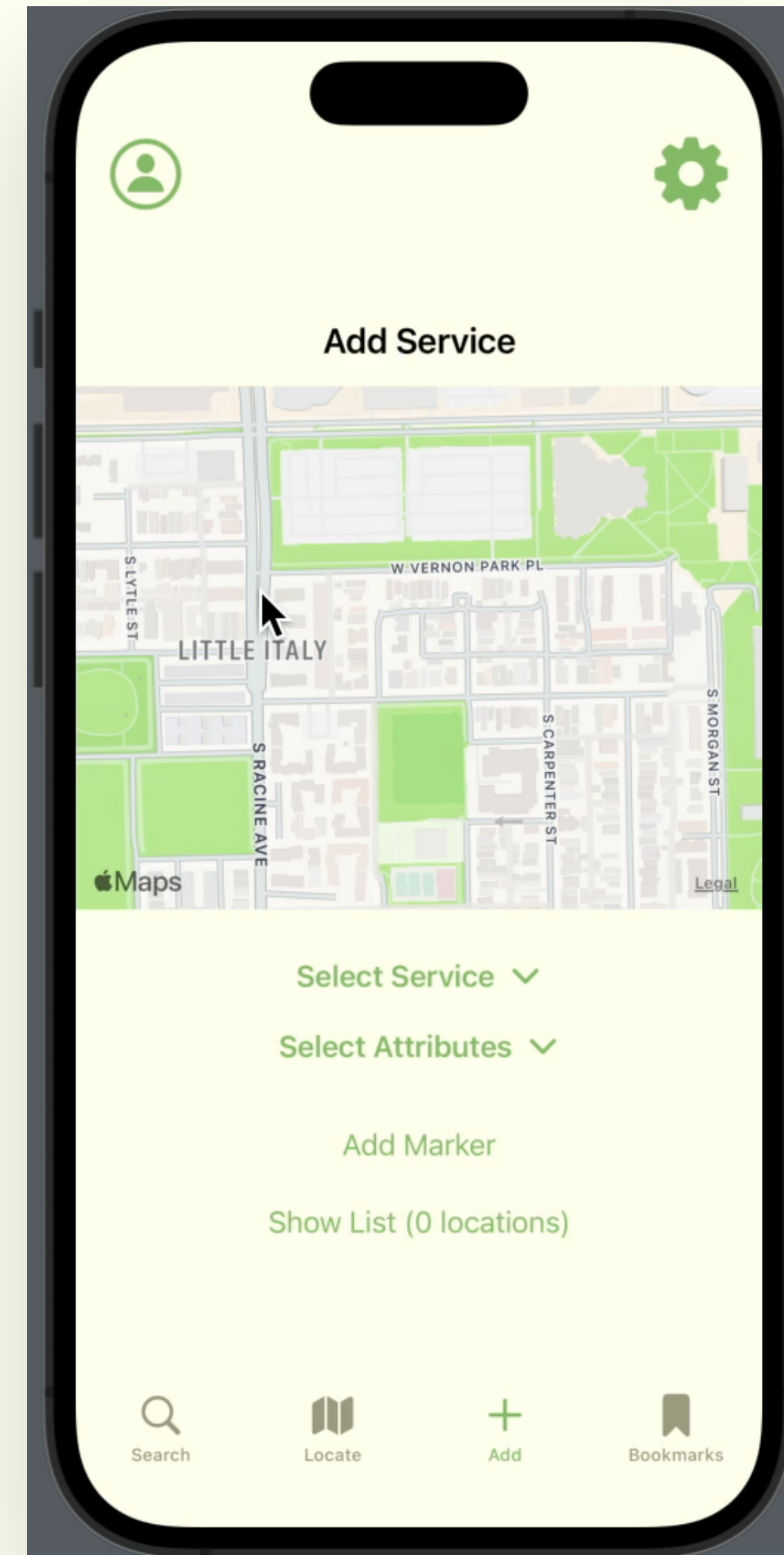
REVIEW



- **Verification process**
- **Ratings + review info**
- **Account is required for reviews**

ADD

- **Interactive map**
- **Determine attributes of the service**
- **Persistence**



ADD (CODE)

```
private fun addAnnotation(at coordinate: CLLocationCoordinate2D,
    title: String) {
    let annotation = MKPointAnnotation()
    annotation.coordinate = coordinate
    annotation.title = title
    annotations.append(annotation)
}
```

```
annotations.append(annotation)
annotations.append(annotation)
```

```
ZStack {
    bgColor
        .ignoresSafeArea()
    VStack {
        Text("Add Location")
            .bold()
            .font(.system(size: 20))
        MapViewWrapper(annotations: $annotations,
            userSelectedCoordinate:
                $userSelectedCoordinate)

        TextField("Name of service", text: $title)
            .textFieldStyle(RoundedBorderTextFieldStyle())
            .padding()
        TextField("Attributes", text: $subtitle)
            .textFieldStyle(RoundedBorderTextFieldStyle())
            .padding()
        Button("Add Marker", action: {
            if let coordinate = userSelectedCoordinate {
                addAnnotation(at: coordinate, title:
                    title, subtitle: subtitle)
                // Clear the text fields after adding the
                marker
                title = ""
                subtitle = ""
                // Save user-added pins to UserDefaults
                saveUserAddedPins()
            }
        })
    }
    .padding()
```

```
.padding()
```

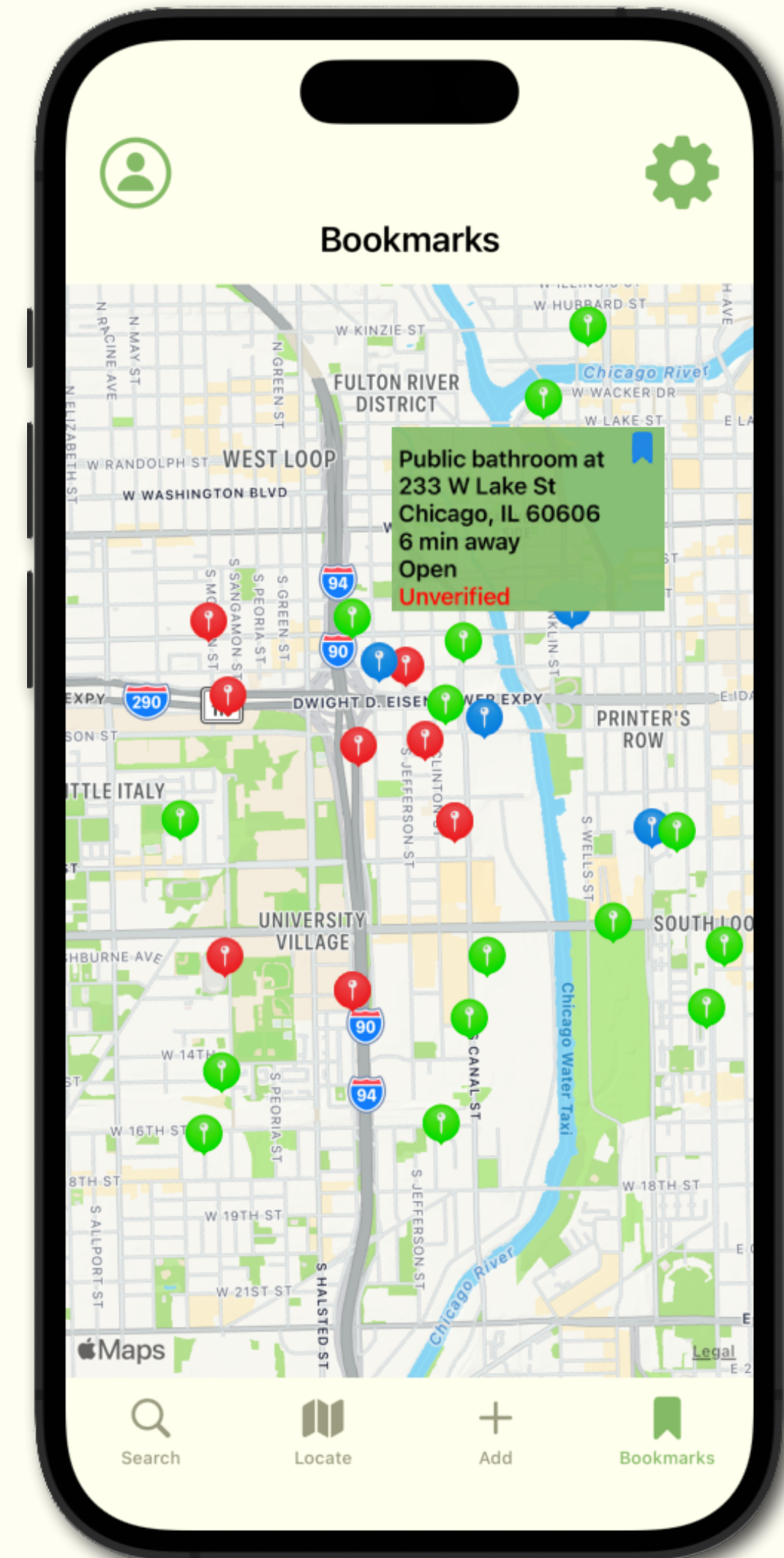
```
.padding()
```

```
)
```



BOOKMARKS

- Easily add/remove bookmarked services
- Color-coded
- Provides navigation



OUR WAYPOINT VISION



Future Goals:

- **Area expansion**
- **Integration with indoor mapping**
- **Multilingual support**
- **Offline system (download locations)**

**THANK
YOU!**



WAYPOINT