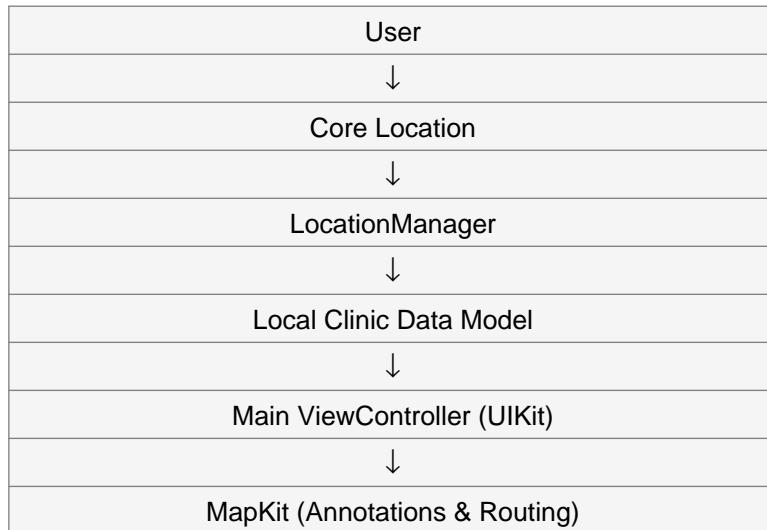


COVID-19 Vaccination Locator App (iOS)

Architecture Model

The application follows a UIKit-based MVC architecture. User location is retrieved via Core Location, processed through a LocationManager component, compared against a locally structured clinic data model, and rendered dynamically within the main ViewController. MapKit is used for map visualization and routing.

System Data Flow



Core Components

- LocationManager – Handles GPS retrieval and permission management using Core Location.
- Clinic Data Model – Stores structured local clinic information (name, coordinates, metadata).
- Main ViewController – Manages UI rendering and dynamic clinic display.
- MapKit Integration – Displays map annotations and generates in-app routing.