

# Route 66 Companion



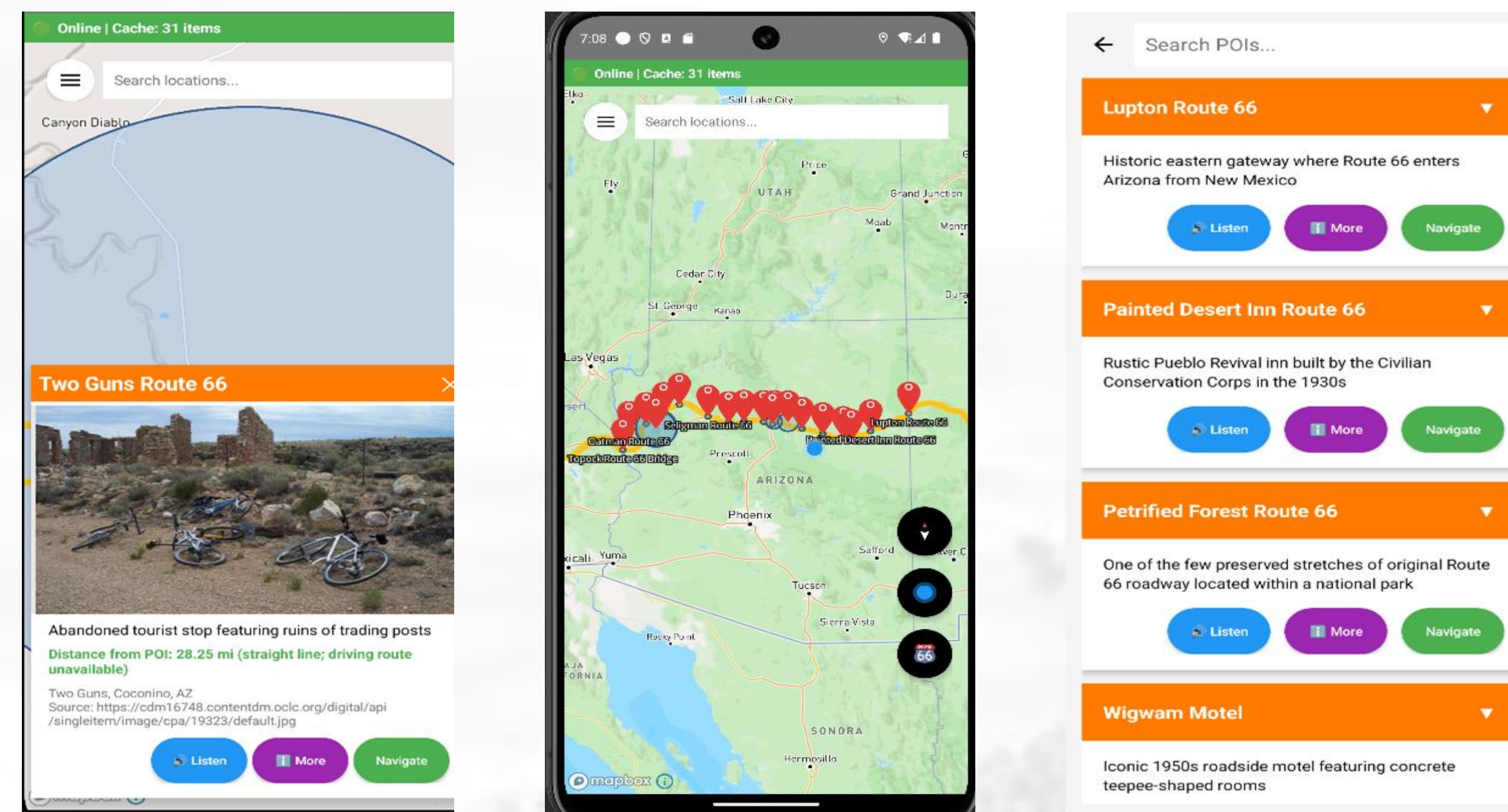
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**Client:** Mike Taylor, Mark Manone **Mentor:** Scott LaRocca

## Motivation

- **Route 66's 100th anniversary** in 2026 is sparking new interest in its history and culture among travelers.
- **Cline Library SCA** holds over **100,000** Route 66 photos, maps, and stories in its online database, CONTENTdm.
- CONTENTdm works well for research but isn't designed for travelers on the road.
- It **lacks** mobile access, interactivity, and GPS-based discovery of local stories.

## Solution Overview



Route 66 Companion is a mobile application that transforms static archival data into a GPS-based experience. Using Mapbox, the app identifies nearby points of interest and delivers relevant photos, stories, and media tied to each location. This allows users to explore Route 66 in real time, creating an interactive "living museum" while they travel.

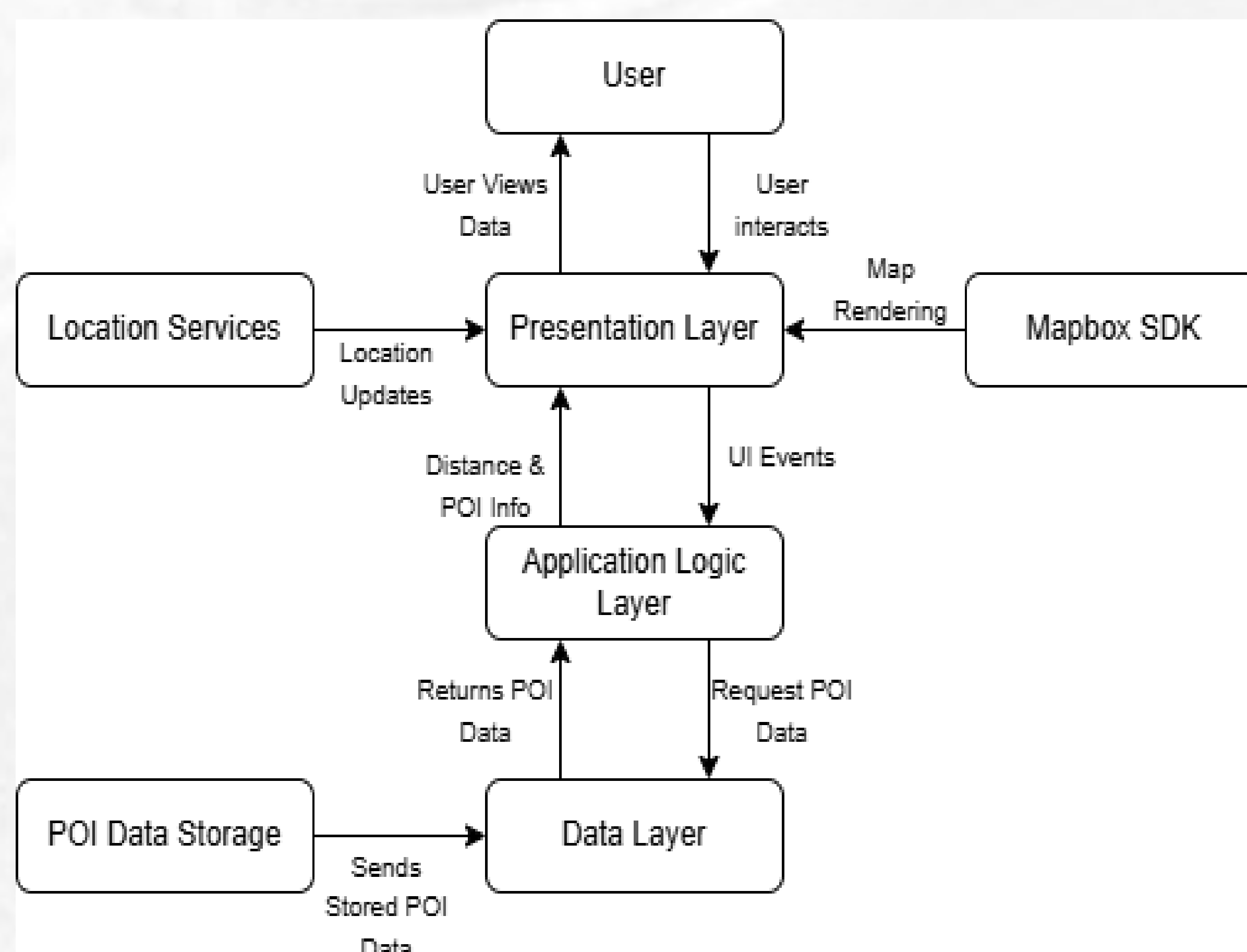
## Testing

- Verified POI display, navigation, and search accuracy
- Validated geofencing behavior
- Ensured a smooth and intuitive user experience
- Evaluated map loading, responsiveness, and handling of local data

## Future Work

- Expand to full Route 66 coverage
- Deeper CONTENTdm integration (live data)
- Cross-platform support (iOS)

## Architecture



## Key Features

- Geofences automatically trigger content for nearby points of interest (POIs)
- Interactive map with Route 66 overlay
- Multiple content types (images, text, audio)
- Search & on-the-go viewing modes

## Challenges & Outcomes

- Distance Calculation **Accuracy**
- Database **Quality** & POI Management
- Search **Functionality**
  - Differences between emulator and physical device behavior
- Full Geofencing along route66