

Realtime Re-recommendation System for POIs

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Problem and needs

- Must be easy to use
- Travelers are unfamiliar with surrounding area

Users and Uses

- Any user that needs to get to a nearby POI
- Finds all POIs nearby of a type

Solution

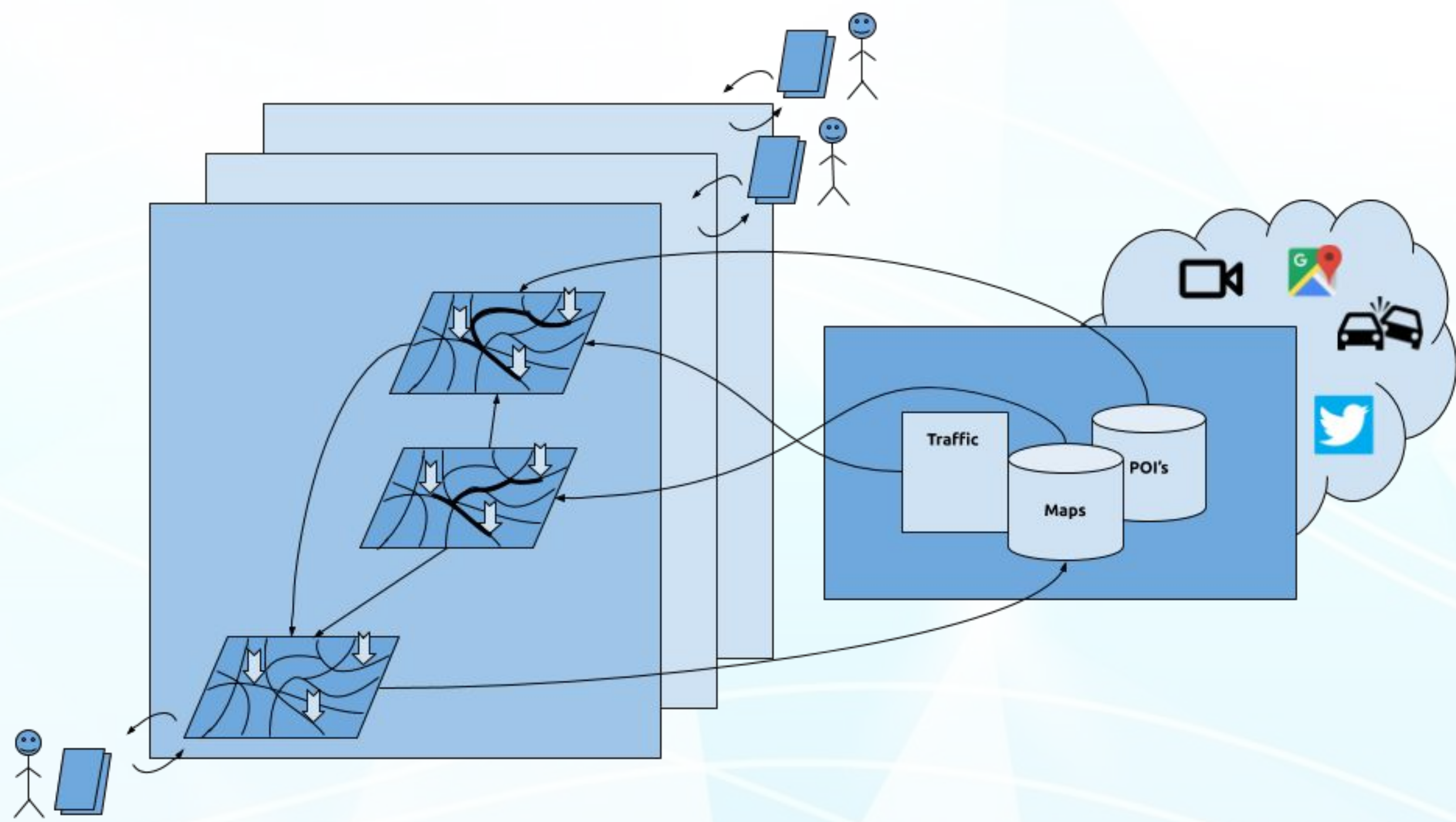
A robust mapping system that handles the placement of multiple points of interest(POIs)

Project Resources

- ISU Server
- Android Phone
- Google Api Keys

Design Approach

- Diagram below shows a overarching view of the systems.
- Multiple users create different routes within their systems
- Information is sent to server for API requesting and data storage
- Information from the API retrieval will be sent back to the designated users.



Design Requirements

Functional Requirements

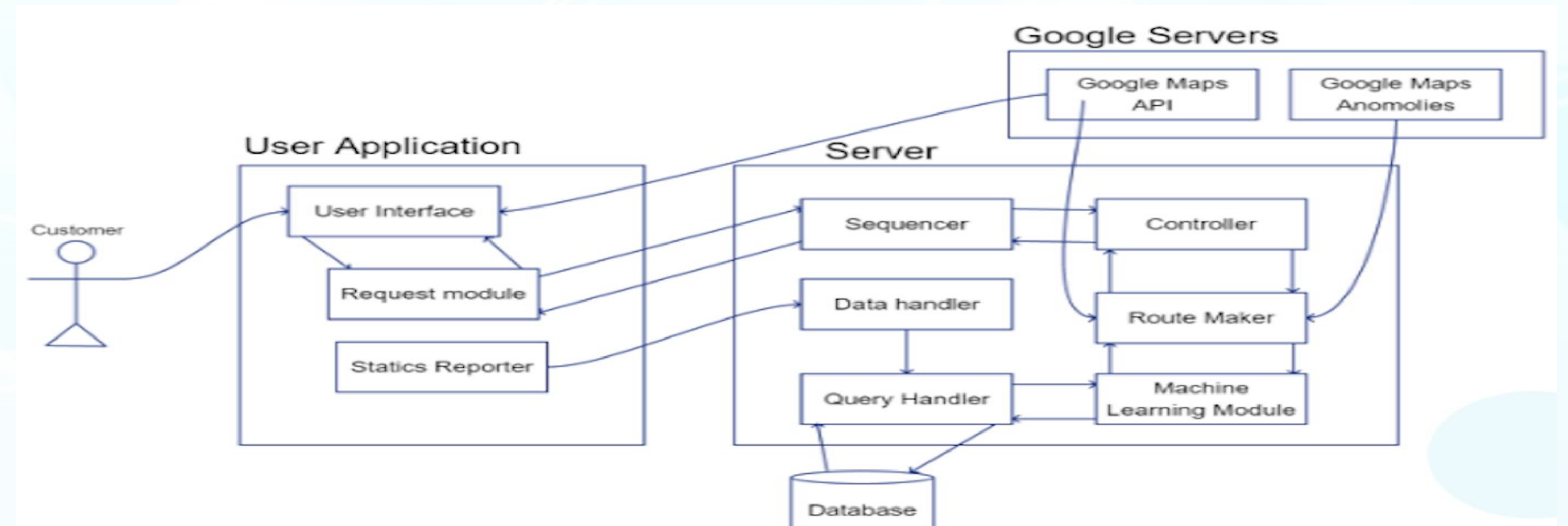
- Server generates a route for a user
- User is able to list POIs and time tables
- Real-time updates to route

Non-Functional Requirements

- Web and mobile application
- Scalability

Operating Environment

- Android Devices
- Web Browsers



Testing

Testing Tools and Environment:

- Meteor
 - Mocha
- Testing Strategy
- Unit testing
 - User Acceptance
 - CI/CD

Technologies & APIs



Engineering Standards & Design Practices

- IEEE 12207-2017
- IEEE 14764-2006
- IEEE 29119-5-2016