

# Library App

Kevin Shannon, Dillon Wastrack, Alex Heath, Keith Waggoner

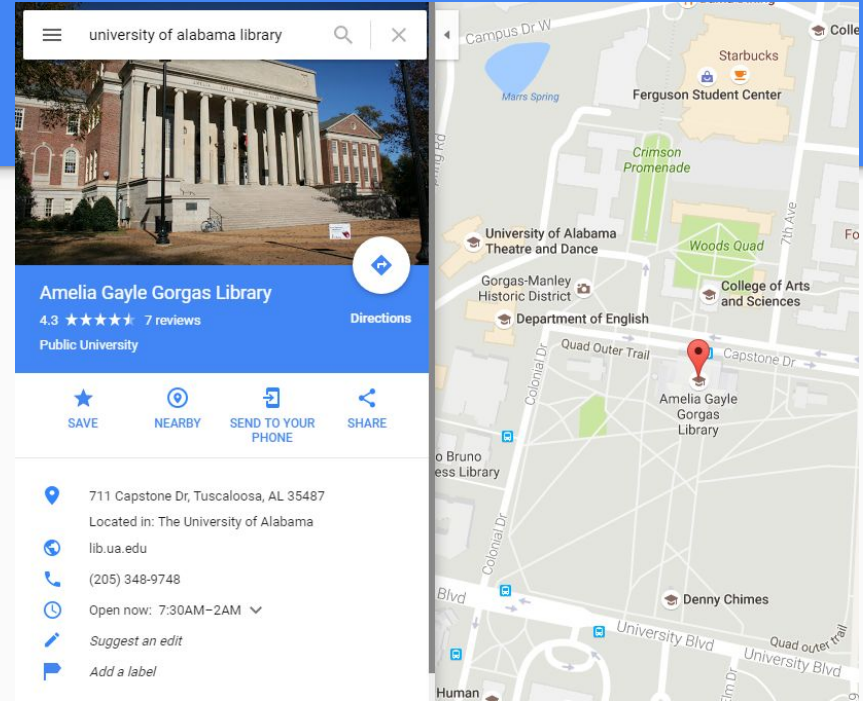
# The Problem

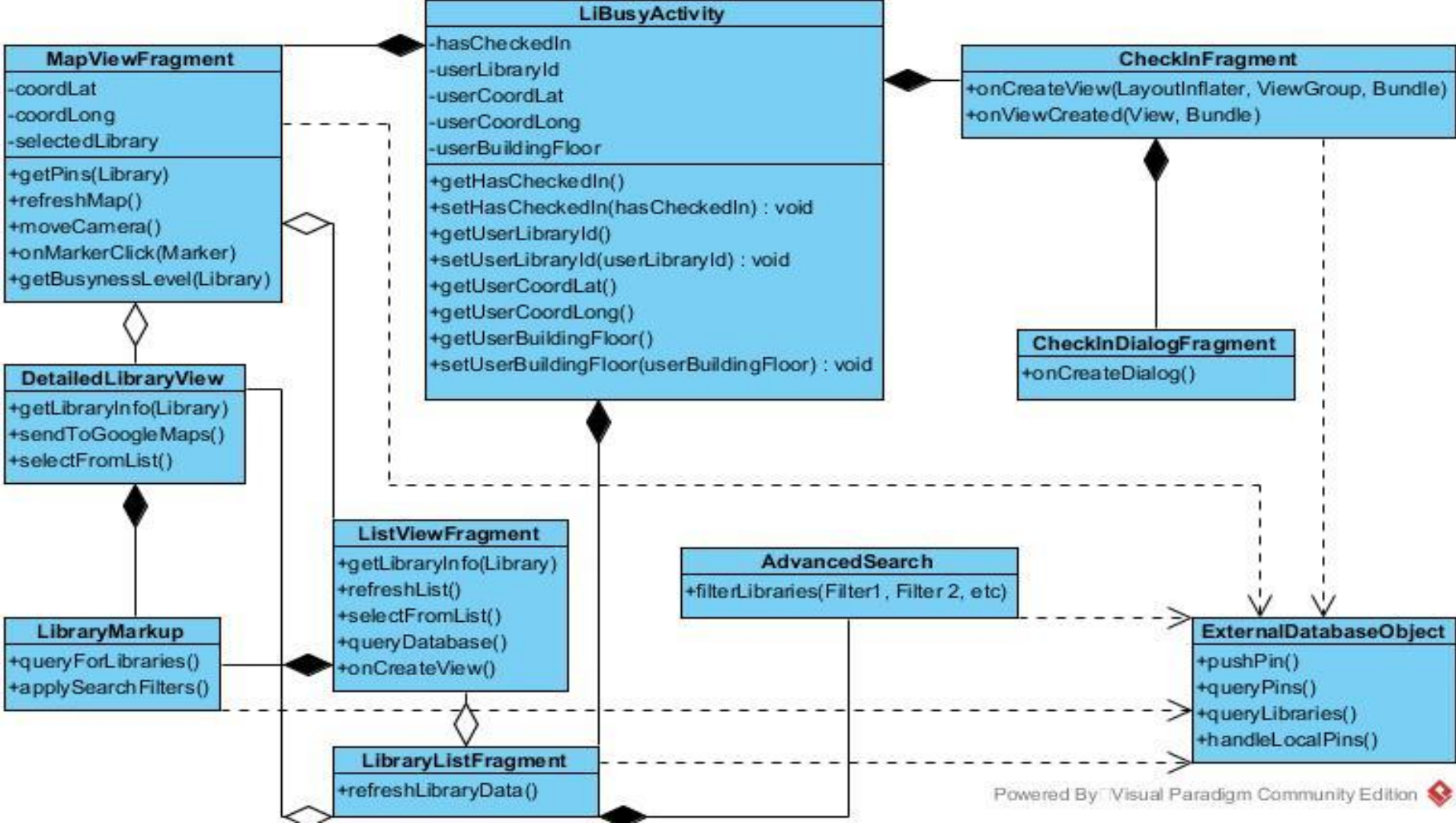
- The University of Alabama is facing overpopulation problems as UA continues to grow
- Biggest problem area: campus libraries/ study areas
- Students face great difficulty searching for open seats, tables, and study rooms



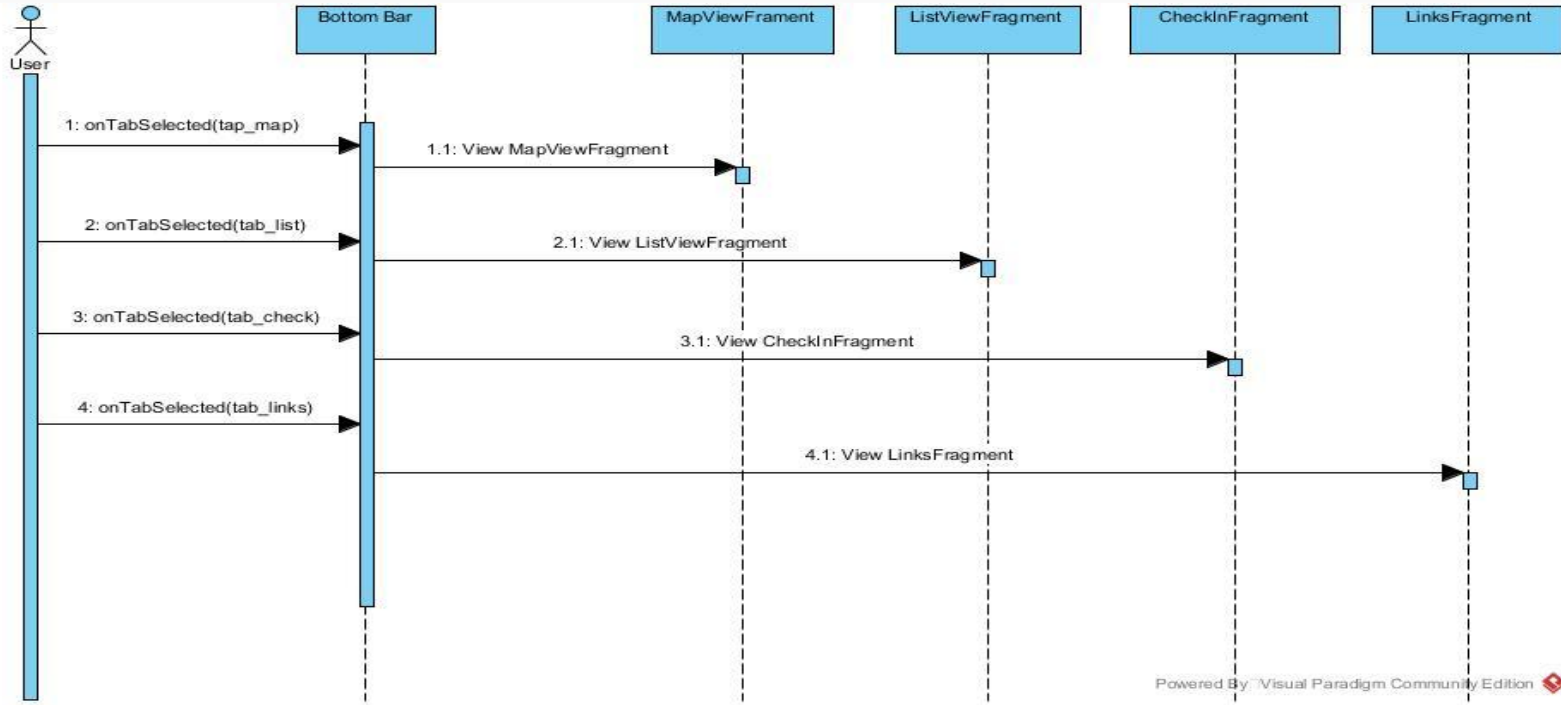
# Scope

- Track busyness and available seats in study areas
- Interactive Map of study areas
- Search/filtering features
- Limited to The University of Alabama's official libraries (Gorgas, Rodgers, McClure, Bruno)
  - To provide a working viable minimum product
  - Able to demonstrate possible value

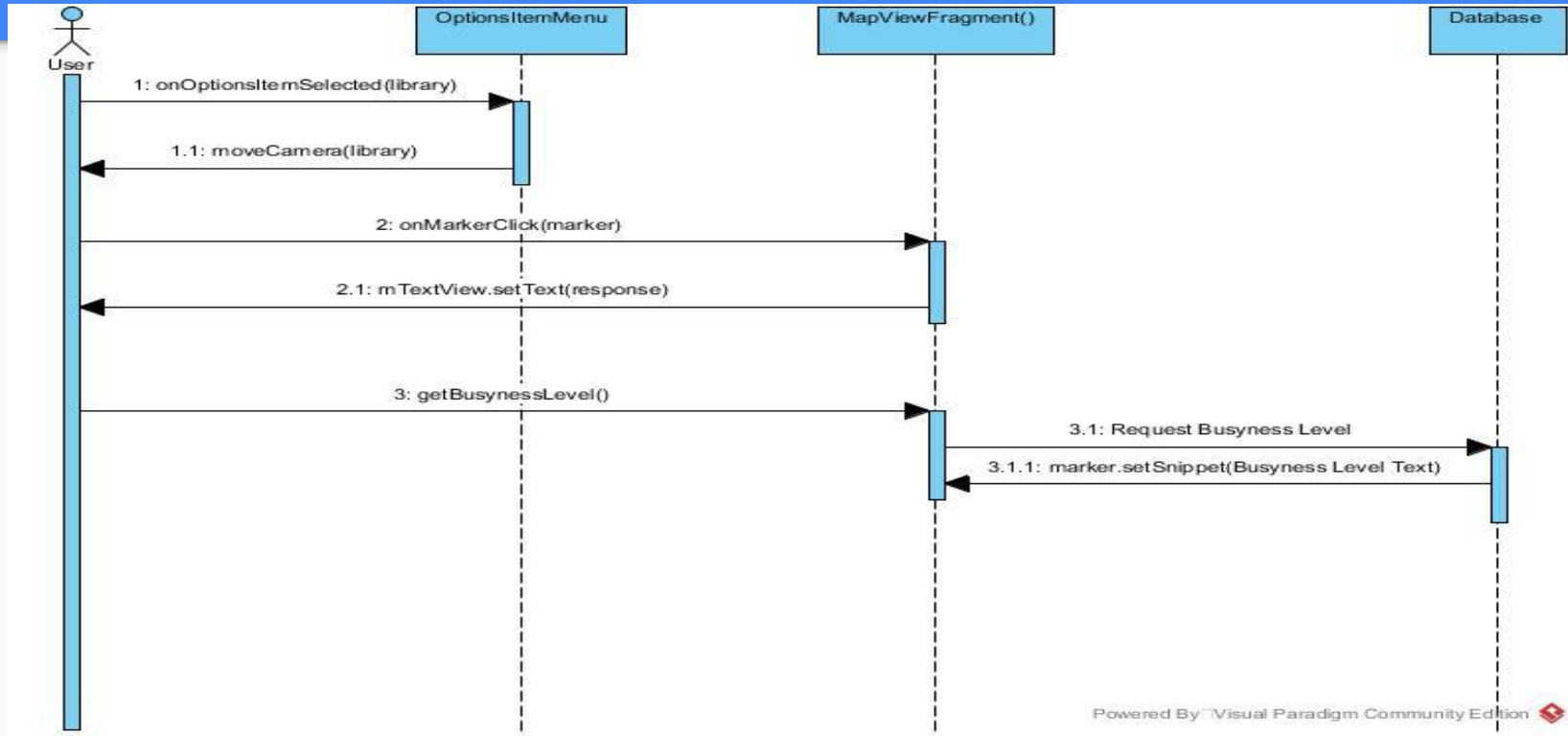




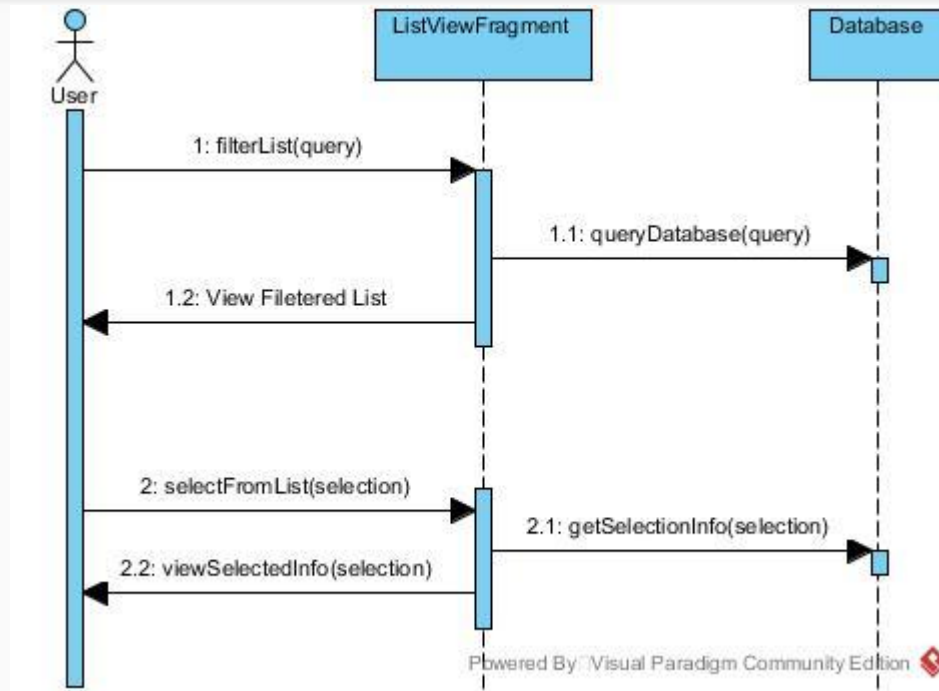
# Sequence Diagram(s) | Main Screen



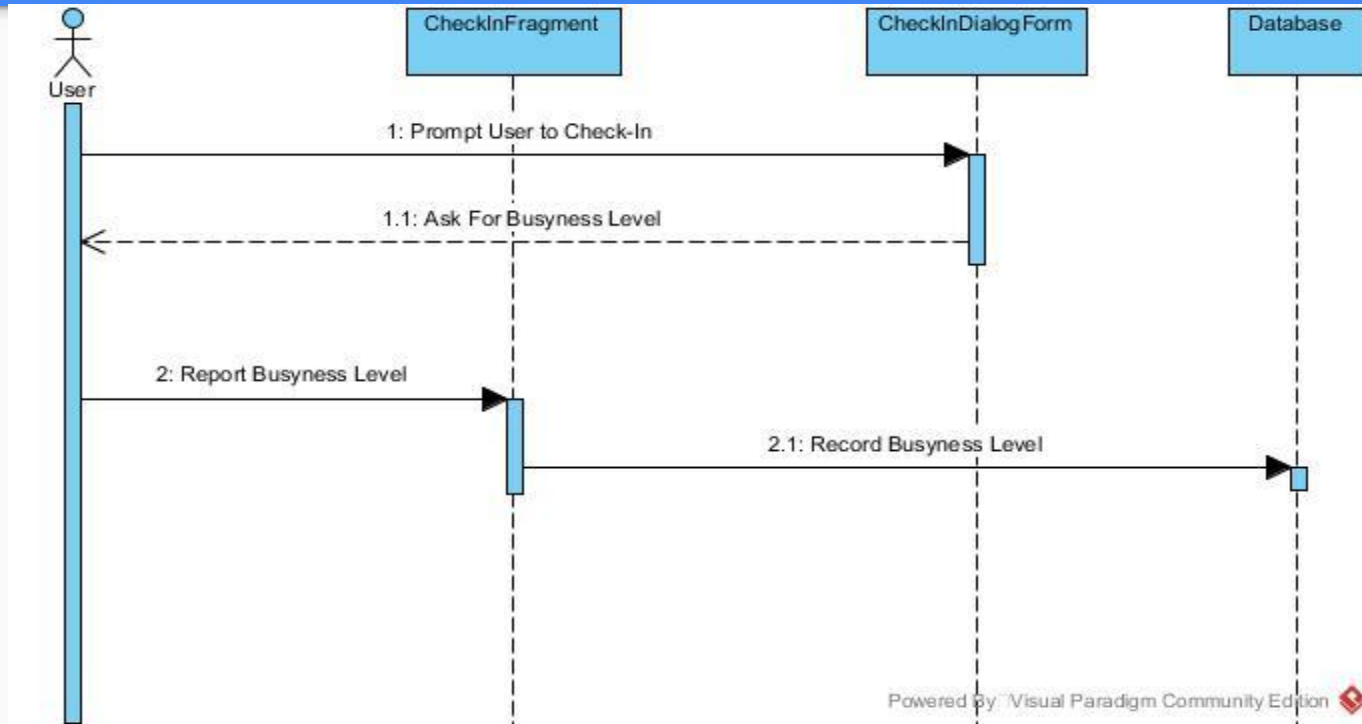
# Sequence Diagram(s) | Map View



# Sequence Diagram(s) | List View

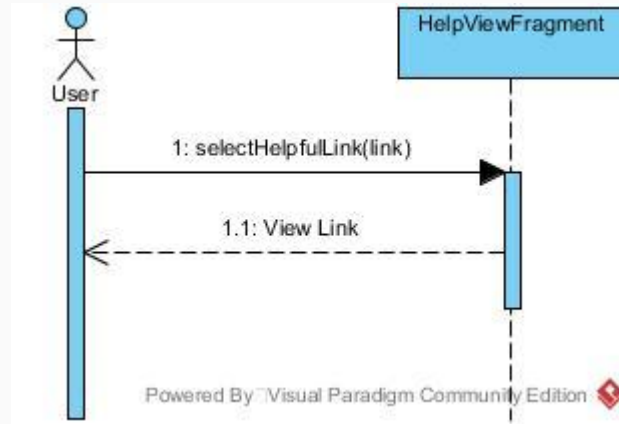


# Sequence Diagram(s) | Check-in Fragment





# Sequence Diagram(s) | Links Fragment



# Priorities: Possible

## Unchanged

- Access library resource hub



Prof.

**Tom Wilson**

Associate Dean for Branch  
Libraries and Digital Student  
Services

Library Administration

☎ 205-348-2299  
📠 205-348-8833  
✉ [tcwilson@ua.edu](mailto:tcwilson@ua.edu)

# Priorities: Future

## Unchanged

- Social Media
- Integration of more advanced technology
  - Library data tracking technology
  - Cameras
  - Thermal Imaging
- Verified Users
- Rewards



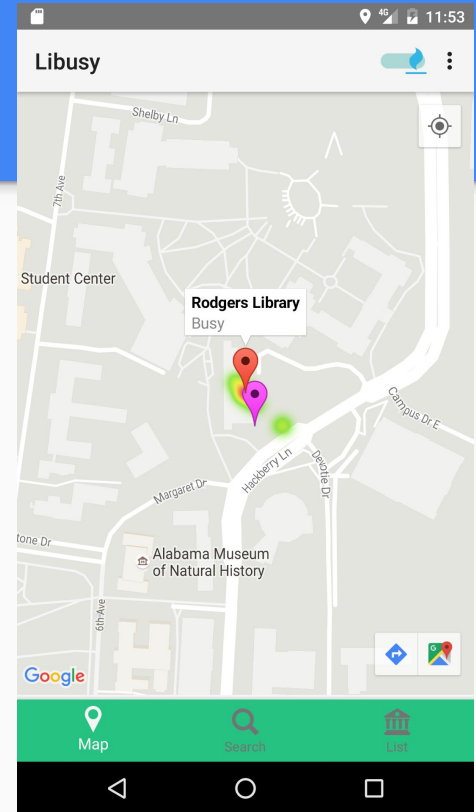
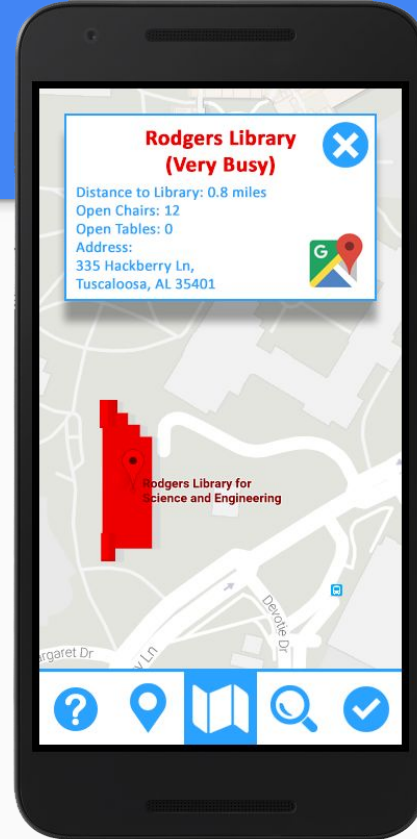
# Priorities: Required

## Unchanged

- Map Interface
- Advanced “find a library search”

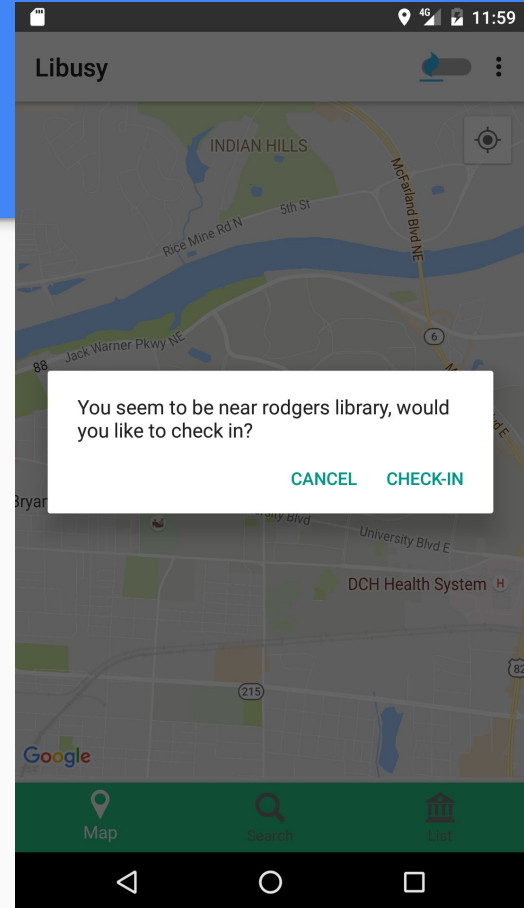
## Potential Changes

- Individual library details
- Check in
- Mark available
- Added Heatmap



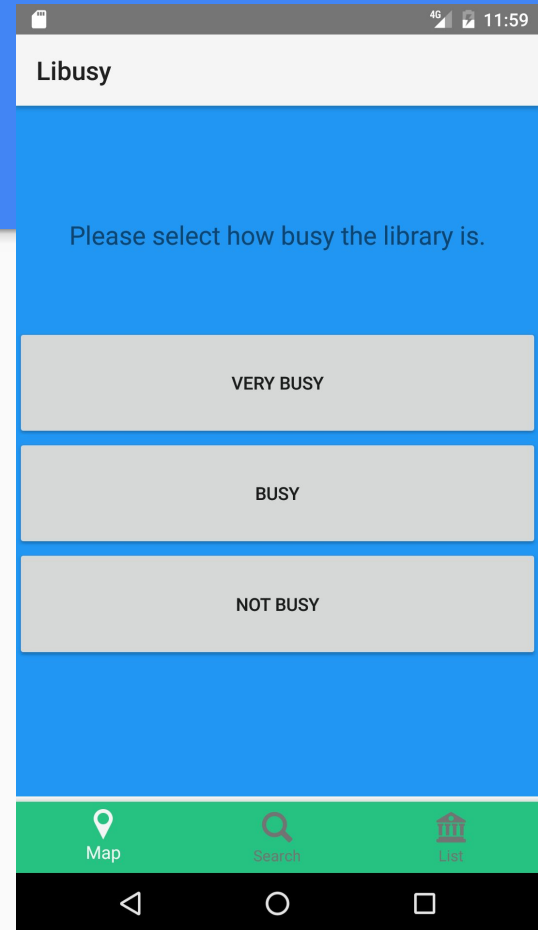
# Check-In Dialog

- Check-In dialog is location aware
- Can check in if within 50 meters



# Check-In Screen

- Check-In dialog brings user here
- Busyness reported to database
  - Used in overall library busyness computation
- After reporting busyness, user returned to map
- Plan on color coding options



# Discussion/ Questions?

- Overall project discussion to date