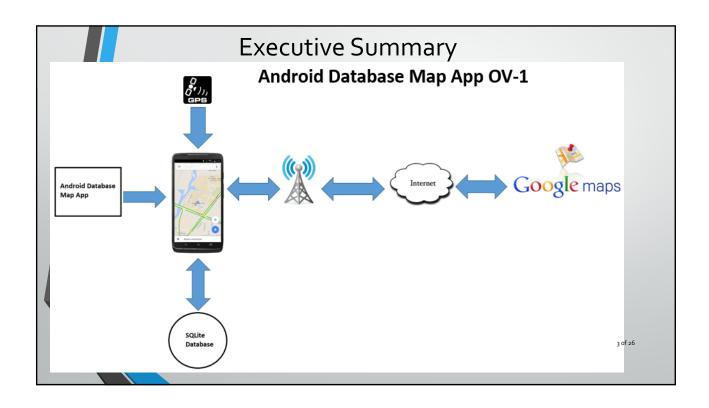
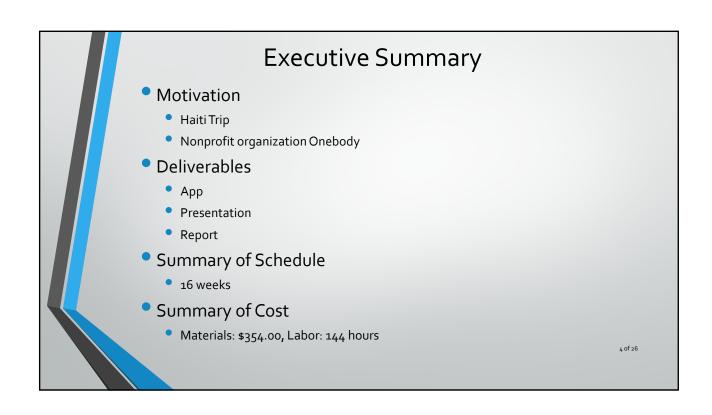


## Outline

- Executive Summary
- Introduction
- Problem Statement and Solution
- System and App Requirements
- Software Analysis
- Software Design
- Software Integration Testing and Validation
- Conclusion

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### **Problem Statement and Solution**

#### Problem

 Need a better way than pencil and paper or spreadsheets to organize contact information and locate addresses on a map with multiple markers.

#### Solution

 Create an Android App that will use information stored in a database, and locate addresses using Google Maps filtering by different categories. The information from the database will be shown in each pin placed on the map.

#### Value

 Making information more accessible and easier to manage. Increasing usability and impact of gathered information for a better outreach to people.

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# App Requirements and Validation

- Physical and Environmental Requirements
  - Android KitKat 4.4.4
  - Android Studio
  - SQLite
  - Google Maps
- App Operational Requirements
  - Shall link database addresses to Google Maps
  - Shall be able to add SQLite database entries
  - Shall be able to edit SQLite database entries

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## App Requirements

- 1. Operational: Android app shall link database addresses to a digital map
- 2. Operational: The Android app shall add new entries to database
- 3. Operational: The Android shall allow editing of database entries
- 4. Functional: The Android app shall use Google Maps API to access digital map
- The Android app shall be able to select entries to display based on userselectable categories

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# App Requirements

- 6. Functional: Google Maps shall be used to locate addresses
- Functional: The Android app shall be used to locate more than 10 addresses on a digital map
- 8. Performance: The Android app shall provide a minimum of TBD categories
- Physical: The Android app will require less than 50MB of RAM
- 10. Physical: The Android app shall be less than 20 MB in size on phone
- 11. Environmental The Android app shall be created using Android Studio
- 12. Development Software

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