Autonomous Tour Guide

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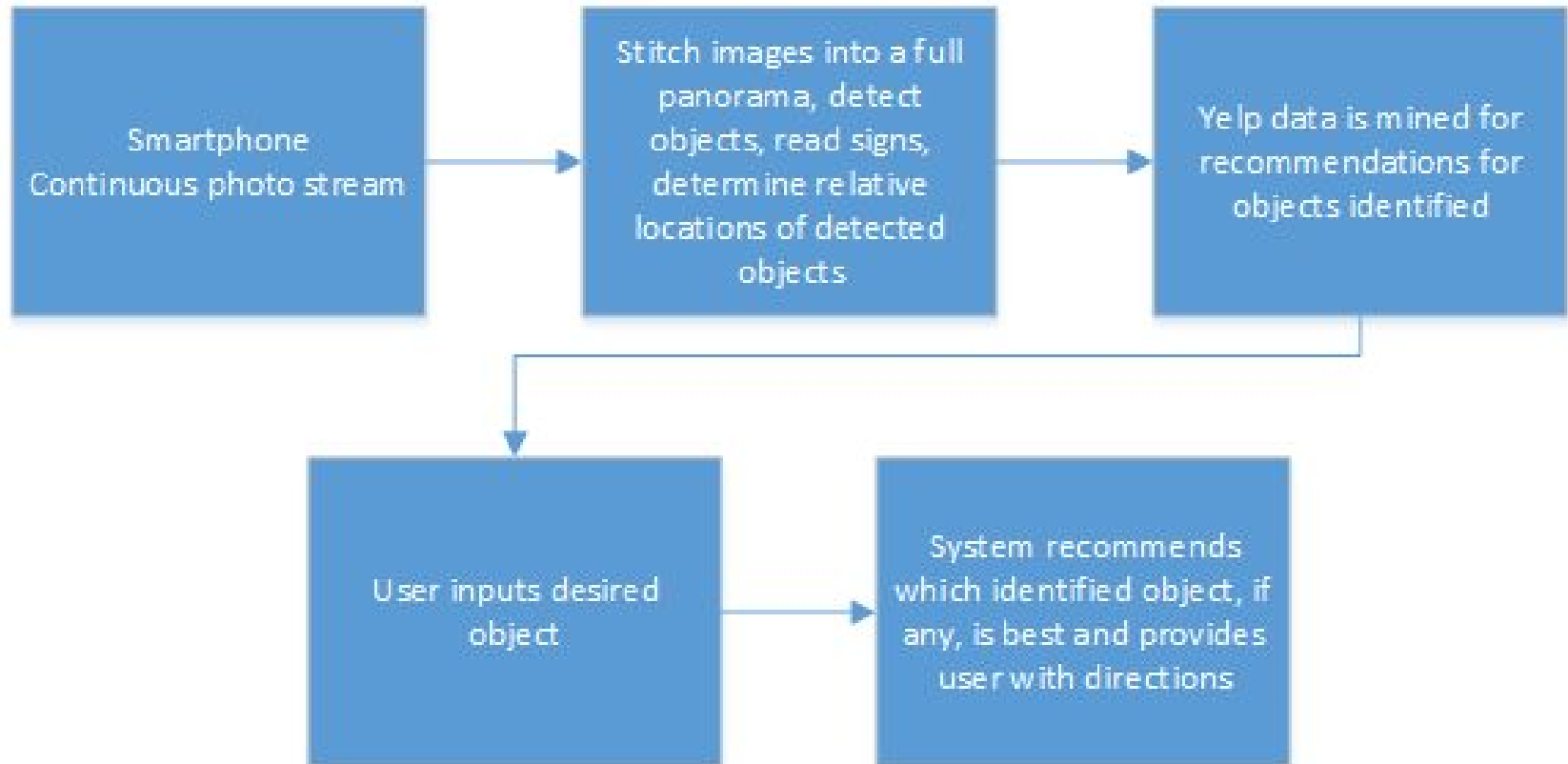Simon Moeller
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Use Case - Directions within a mall

- Identify stores within view
- Take user input on desired object to purchase
- Use Yelp data to recommend which store to go to
- Provide user with relative directions from current position to the recommended store

Can be particularly useful for a person with limited mobility

High Level Diagram

Smartphone Continuous photo stream

Stitch images into a full panorama, detect objects, read signs, determine relative locations of detected objects

Yelp data is mined for recommendations for objects identified

User inputs desired object

System recommends which identified object, if any, is best and provides user with directions

Recommendation System

- Twitter data will be used to search for recommendation data
- Data will be collected for all objects identified in the camera photos
  - Objects are likely to be stores
  - Twitter recommendations will include the items for sale in the store
- User will enter desired item, and closest match store will be selected