



## PlentyToShare

SOFE4640 Mobile Application Development  
Project Proposal

**Group 6**

Oct 10, 2021

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## Project Description

Our goal is to create a food donation application helping local restaurants and charities connect with each other and schedule left-over food pick-ups. Our idea addresses the gap in logistics between local restaurants who are ready to donate meals and the charities who are in need of such donations but do not have the appropriate resources and tools to set it up. Services targeting this need are present in the USA but they do not operate within Canadian territory.

## Implementation Plan

The table below briefly outlines how we are planning to implement project requirements.

Requirement	Implementation
Easy to use interactive UI	<ul style="list-style-type: none"><li><input type="checkbox"/> Adhere to industry best practices for UI design;</li><li><input type="checkbox"/> Restaurant profile and charity profile navigation;</li><li><input type="checkbox"/> Use of RecyclerView lists for restaurant browsing;</li><li><input type="checkbox"/> Two-way asynchronous confirmation of requests between restaurant and charity with audio/visual cues;</li><li><input type="checkbox"/> Real-time tracking;</li><li><input type="checkbox"/> Order/serving history;</li></ul>
Authentication of users	Separate login to profile for charities and restaurants
Databases	Cloud DB services: <ul style="list-style-type: none"><li>- charity/restaurant profile</li><li>- orders/servings</li><li>- Itinerary details</li><li>- Handoff details</li></ul>
Use of maps	Google Maps will be used for pick-up route planning, location and tracking.
Use of mobile sensors	Gyroscope for screen rotation; Accelerator for tracking and time estimates;
Use of media (music and video)	Confirmation tune (audio cue); Successful pick-up tune (audio cue); Optional: promo videos;

See Figure 1 below for a preliminary schematic flow through the application activities. This flow is subject to change as we iterate through the design process.

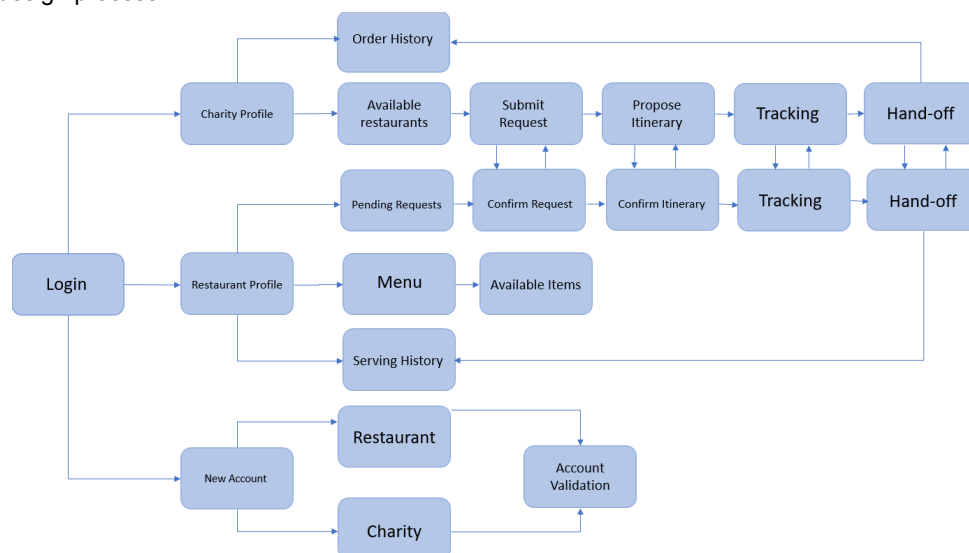


Figure 1. Proposed flow through views/activities of the PlentyToShare mobile application