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Busy Mama

Description

Busy mothers assistant budget app - uses geolocation to check if the mom was near a store and reminds her to note how much she spent in the store. The data can be stored and used later to balance the budget.

The problem this is trying to solve is how busy mothers are so they're not always able to create a budget or to keep track of their spending.

Intended User

The intended user is mothers but could also be used by anyone interested in keeping track of their expenses.

Features

Main features

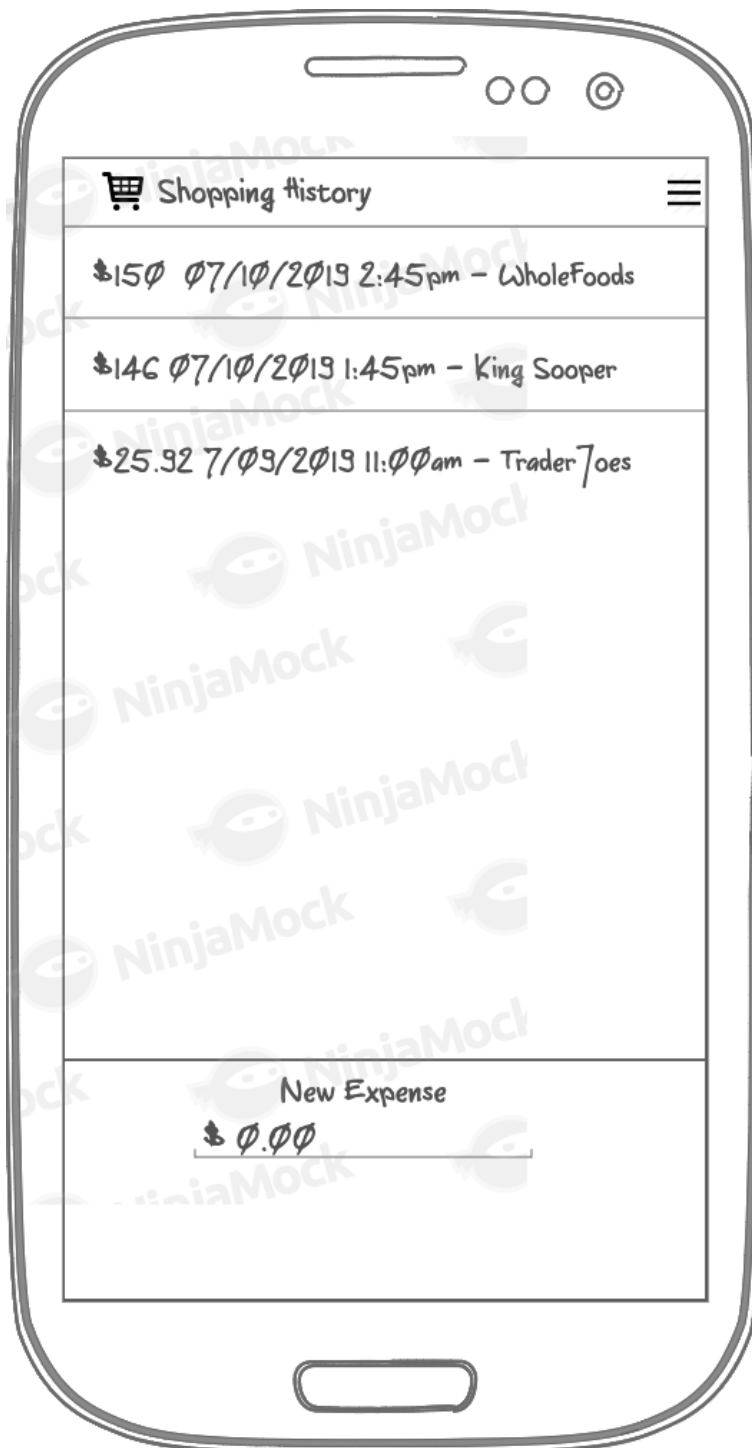
- Uses geolocation
- Send notifications
- Captures data from an input field
- Saves the data to a firebase database

User Interface Mocks

Login Screen



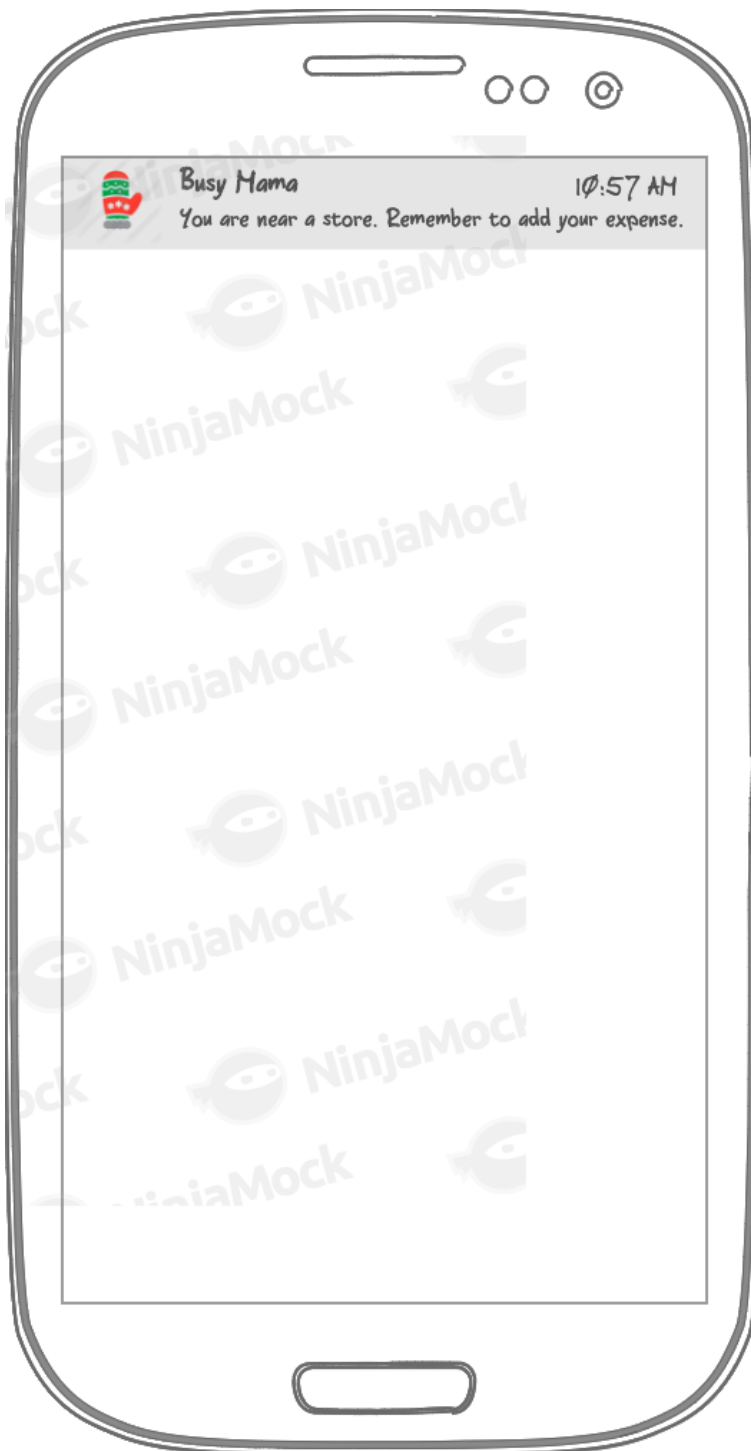
Home Screen - initial landing screen after login



Editing expense screen - add/change category and/or payment method



Push notification - notifies the user is near a store and reminds him/her to add expense to the report



Place picker - Allows the user to generate locations that will trigger a push notification whenever their device is near a store in their list.



Key Considerations

How will your app handle data persistence?

Firebase Realtime Database

Describe any edge or corner cases in the UX.

Figure out a way to export data to another app

Describe any libraries you'll be using and share your reasoning for including them.

Firebase has to be included to persist user spending data, and Firebase Cloud Messaging for notifications.

Describe how you will implement Google Play Services or other external services.

Google Places API for geolocation and for triggering notifications if the user is near a store.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and break them down into tangible technical tasks that you can complete one at a time until you have a finished app.

Task 1: Project Setup

You may want to list the subtasks. For example:

- Create new Git repo
- Configure Firebase
- Get a google API key
- Configure Geofencing
- Configure notifications

Task 2: Implement UI for Each Activity and Fragment

List the subtasks. For example:

- Build UI for LoginActivity
- Build UI for Shopping History list activity
- Build UI for Place picker activity
- Build UI for editing expenses activity

Task 3: Your Next Task

- Create login, shopping history, edit expense and place picker layouts.
- Implement firebase notifications
- Implement geolocation
- Implement firebase database
- Handle errors when there is no WiFi

Task 4: Your Next Task

- Generate production build
- Release to the play store

Submission Instructions

- After you've completed all the sections, download this document as a PDF [File → Download as PDF]
 - Make sure the PDF is named "**Capstone_Stage1.pdf**"
- Submit the PDF as a zip or in a GitHub project repo using the project submission portal

If using GitHub:

- Create a new GitHub repo for the capstone. Name it "**Capstone Project**"
- Add this document to your repo. Make sure it's named "**Capstone_Stage1.pdf**"