GROCAFAST

LIST YOUR GROCERIES .. WITH NO WORRIES

Elaf Aloufi, Layan Fakhurji, Manar Altaiary, Raneem Alshareef
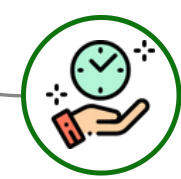**Adviser: Dr. Abeer Hakeem**

FCIT
KAU

Abstract

Grocery shopping can be stressful and time-consuming. Shoppers often waste time by crossing all aisles or searching for specific items.

GROCAFAST aims to enhance the in-store grocery shopping experience and help shoppers save time by allowing them to create a dynamic grocery list that is arranged based on the layout of the grocery store to generate the shortest path that guides the shoppers through the store, starting from the entrance and passing through each aisle that contains the items on their list, all the way to the checkout point.

Objectives

- Enhance the in-store grocery shopping experience.

- Minimize the time spent by shoppers in the store by providing them with the shortest path to collect their groceries.

Features

- Modify previous grocery lists.

- Navigate inside the grocery store using a route map based on the grocery list items.

- Check item availability and locate its spot inside the store.
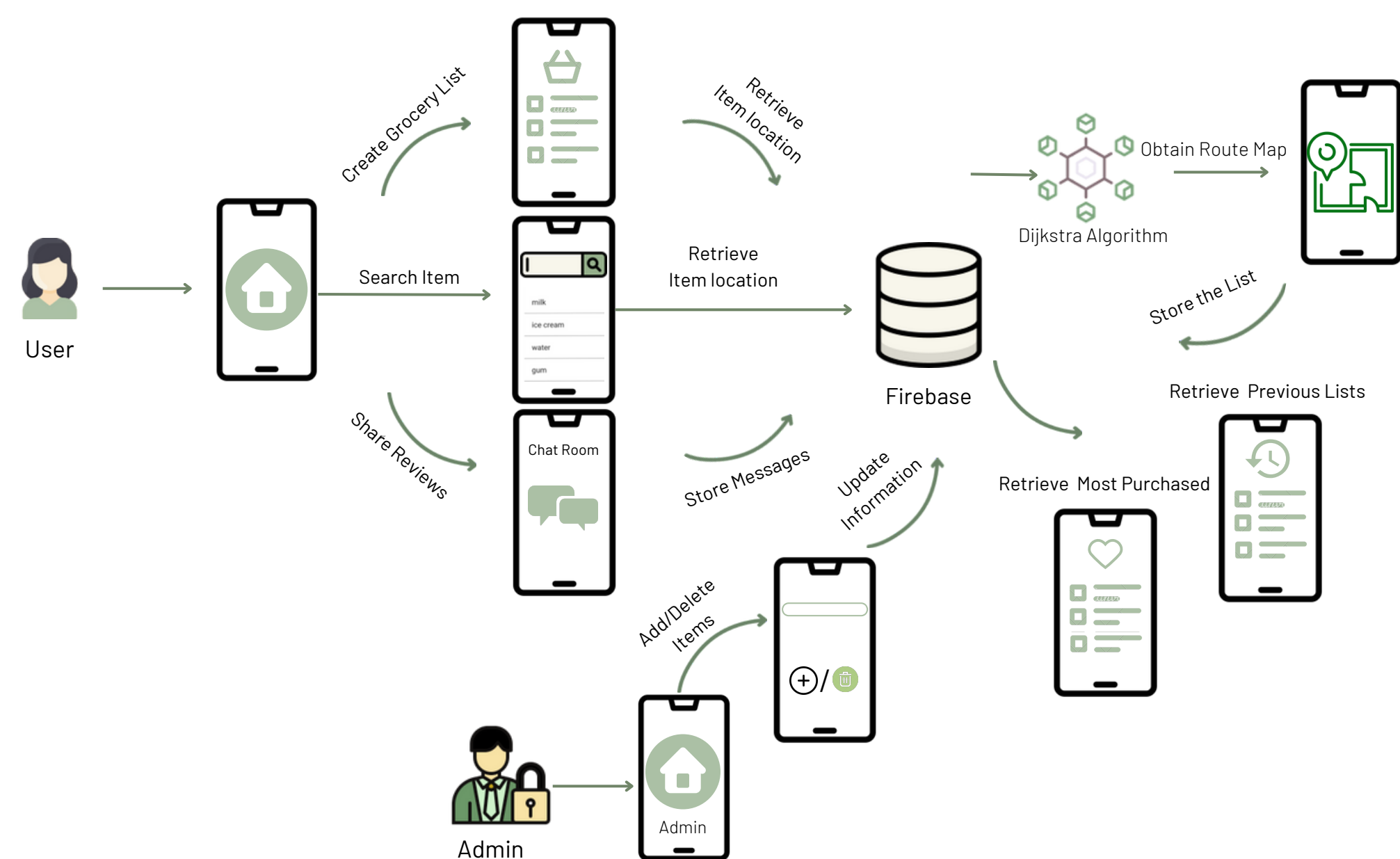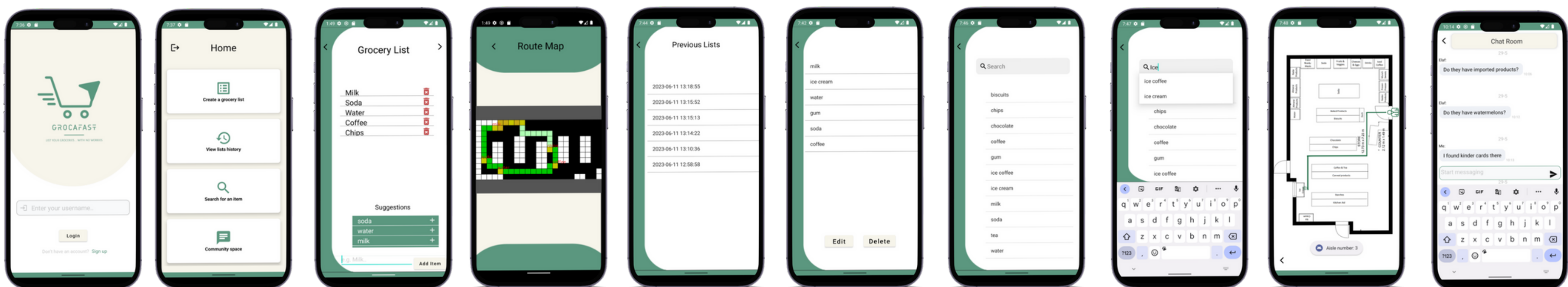
- Receive shopping suggestions.

- Share reviews through a virtual space for shoppers of the same grocery store.
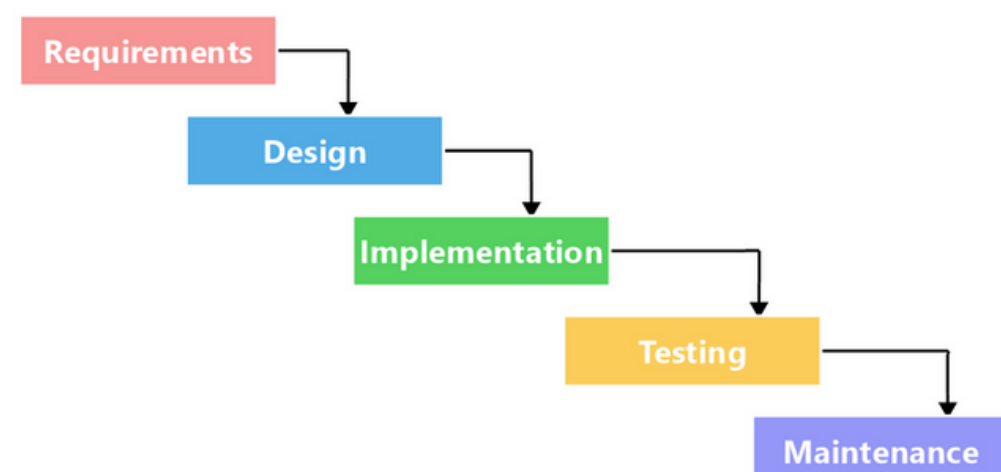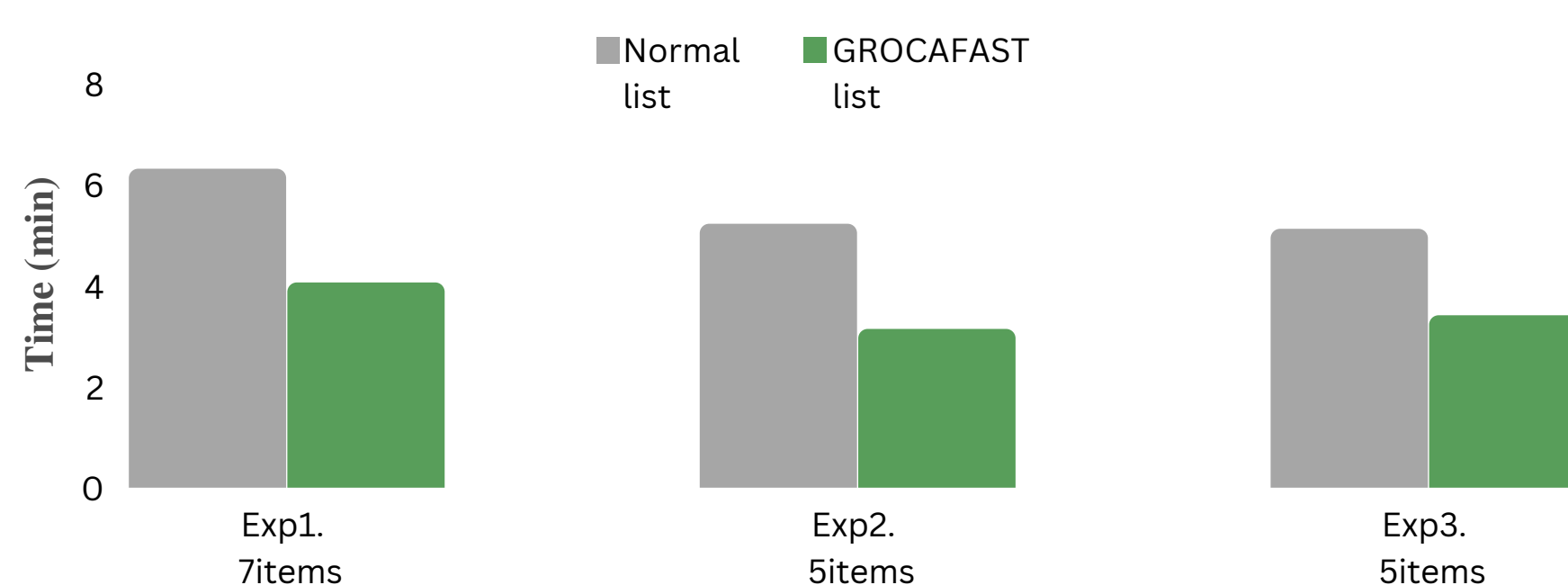
GROCAFAST Architecture

Results

Methodology

Waterfall Methodology

Requirements → Design → Implementation → Testing → Maintenance

Testing

Time (min) — Normal list / GROCAFAST list

- Exp1. 7items
- Exp2. 5items
- Exp3. 5items

Tools

Firebase

Java

XML