

MPL MINI PROJECT

UPCYCLE

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OVERVIEW

UpCycle is a mobile application designed to promote sustainable giving by connecting donors with thrift stores and individuals in need. The app facilitates clothing donations to thrift stores and book/school supply donations for students, ensuring a smooth and transparent donation process.

INTRODUCTION

Sustainability and waste reduction are crucial in today's world. UpCycle provides a digital platform where users can donate their pre-owned items, reducing waste and supporting communities. It ensures secure user authentication and real-time data management through Firebase.

PROBLEM STATEMENT

Many of us want to donate clothes or share school and college supplies we no longer need, but it's not always easy to figure out how. Whether it's finding a thrift store nearby or connecting with someone who could use our old books, the process can feel messy and inconvenient. On the other hand, thrift stores and students often miss out on donations simply because there isn't an easy way to bring everyone together. That's where an app like UpCycle comes in—to make donating simple, meaningful, and accessible for everyone.

OBJECTIVES

- Provide a secure and user-friendly donation platform.
- Enable thrift stores to register and manage donations.
- Ensure real-time updates and easy tracking of donations.
- Promote sustainable giving and reduce waste.
- Enable peer donation platform

REQUIREMENTS

Hardware Requirements:

Smartphone (Android/iOS)

Internet Connection

Software Requirements:

Flutter (for app development)

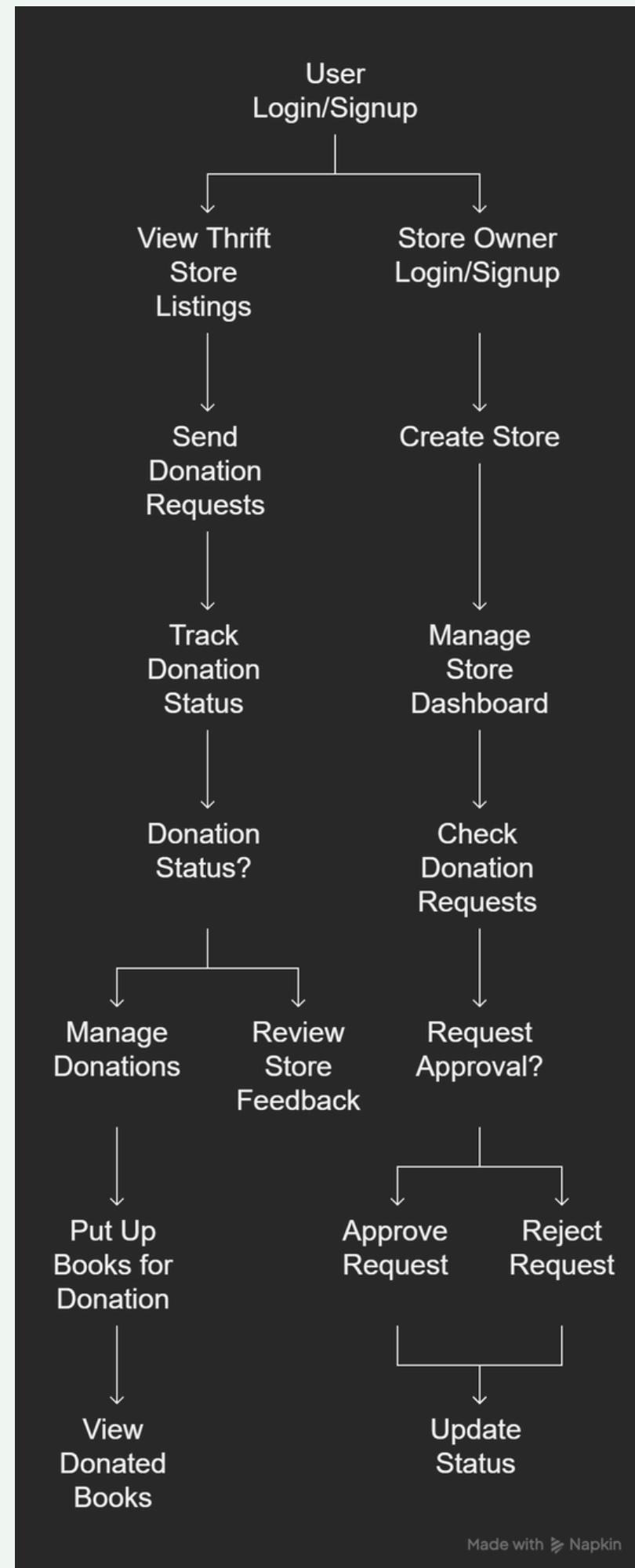
Firebase Authentication (for secure login)

Firestore (for data storage)

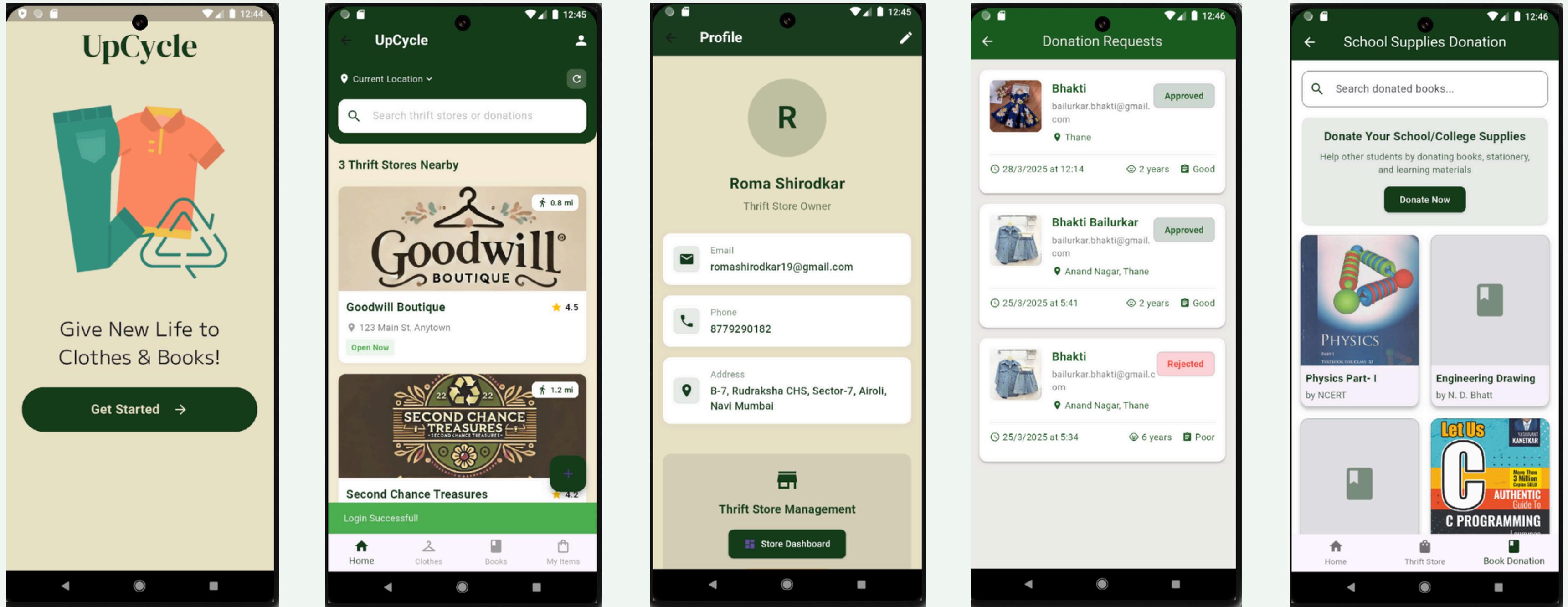
LITERATURE SURVEY

Name	Year	Summary
Building a Sustainable Future for Charitable Giving: A Critical Analysis of an Application for the Donation Ecosystem	2023	This research paper explores the effectiveness of donation applications in facilitating charitable giving. The paper investigates the features and design of popular donation applications, their impact on donor behavior, and the benefits and drawbacks of using donation application.

PROPOSED DESIGN



IMPLEMENTATION



RESULTS AND ANALYSIS

- Successfully implemented a secure authentication system.
- Enabled dynamic thrift store listings and book donation tracking.
- Provided a dashboard for store owners to manage donations.
- Ensured seamless image uploads and real-time updates.

CONCLUSION

UpCycle makes donating easier by connecting people with thrift stores and those in need. With features like secure logins, real-time updates, and donation tracking, it ensures a smooth and transparent process. More than just a donation app, UpCycle promotes sustainability by reducing waste and encouraging mindful giving. By making donations simple and accessible, it helps build a community that values sharing and reuse.