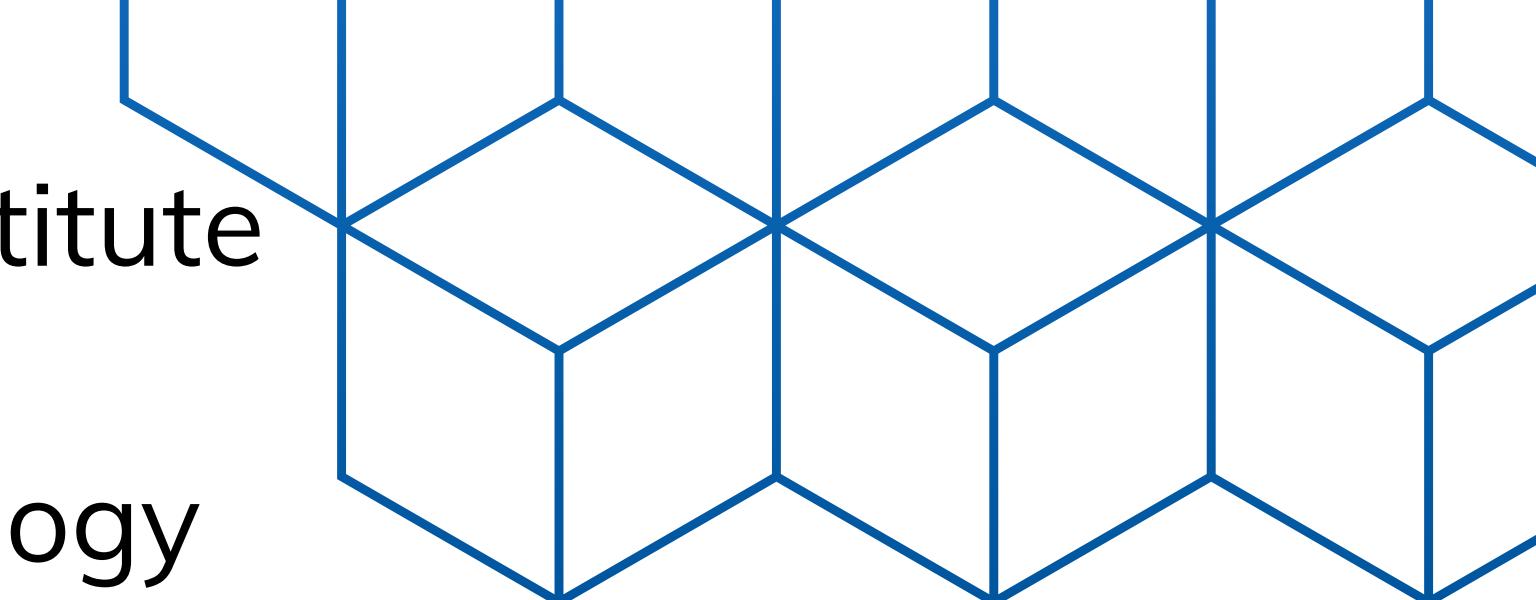




Vivekanand Education Society's Institute  
Of Technology  
Department Of Information Technology



# Expense tracker

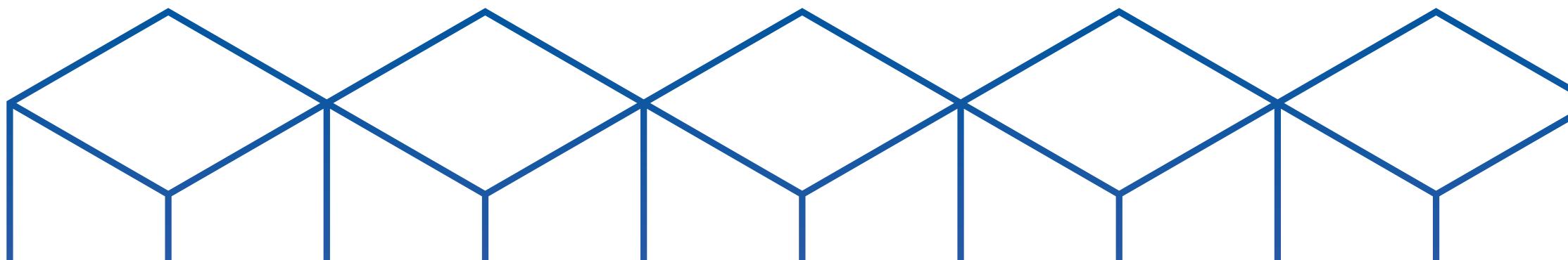
A flutter application

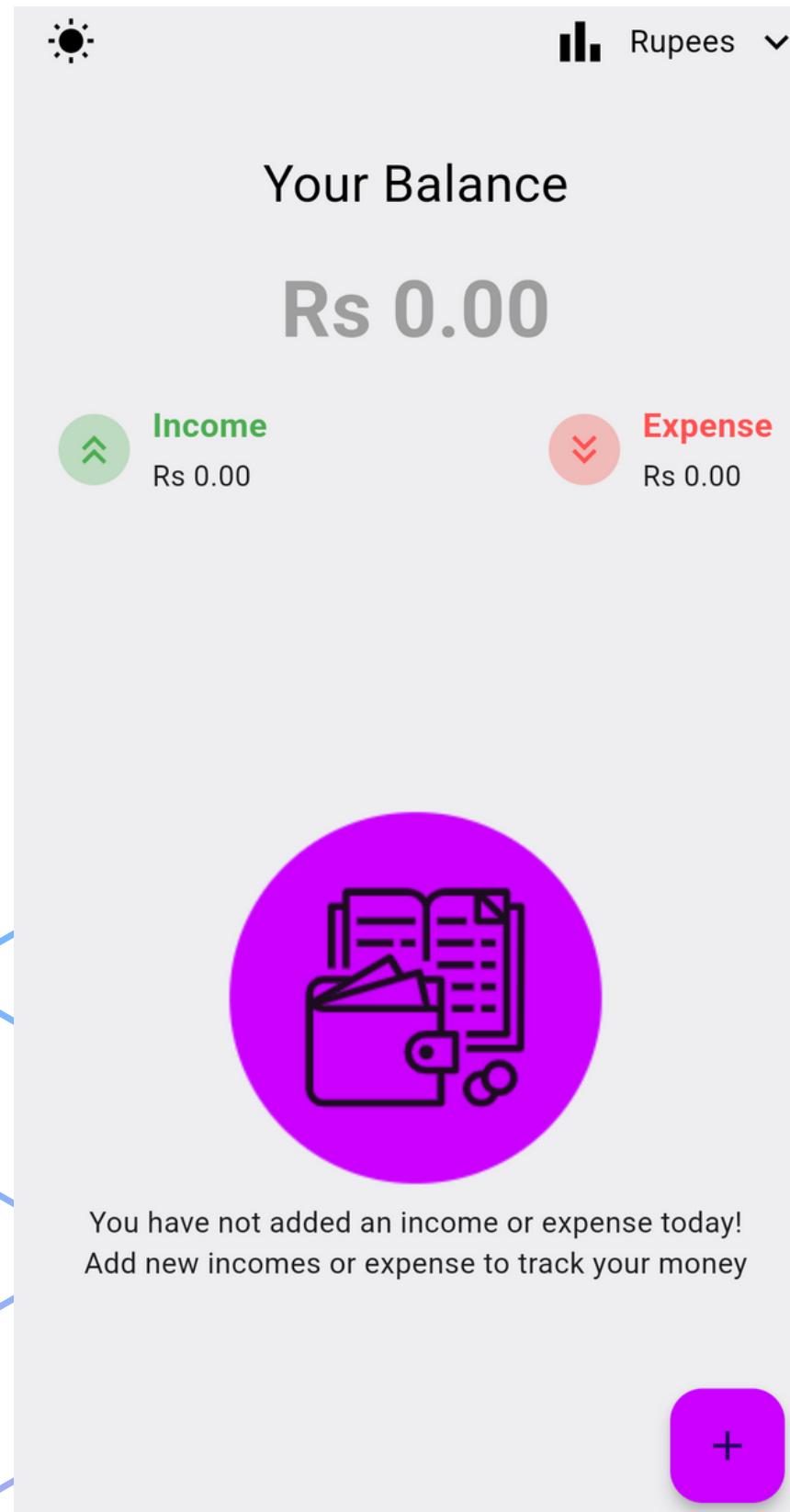
Presented by: Yash Surendra Uskelwar  
Roll No. : 69  
Division : D15B



# Agenda

- Introduction
- Problem Definition
- Aims & Objectives
- Features
- Requirements of System(Hardware & Software)
- Implementation
- Conclusion
- References

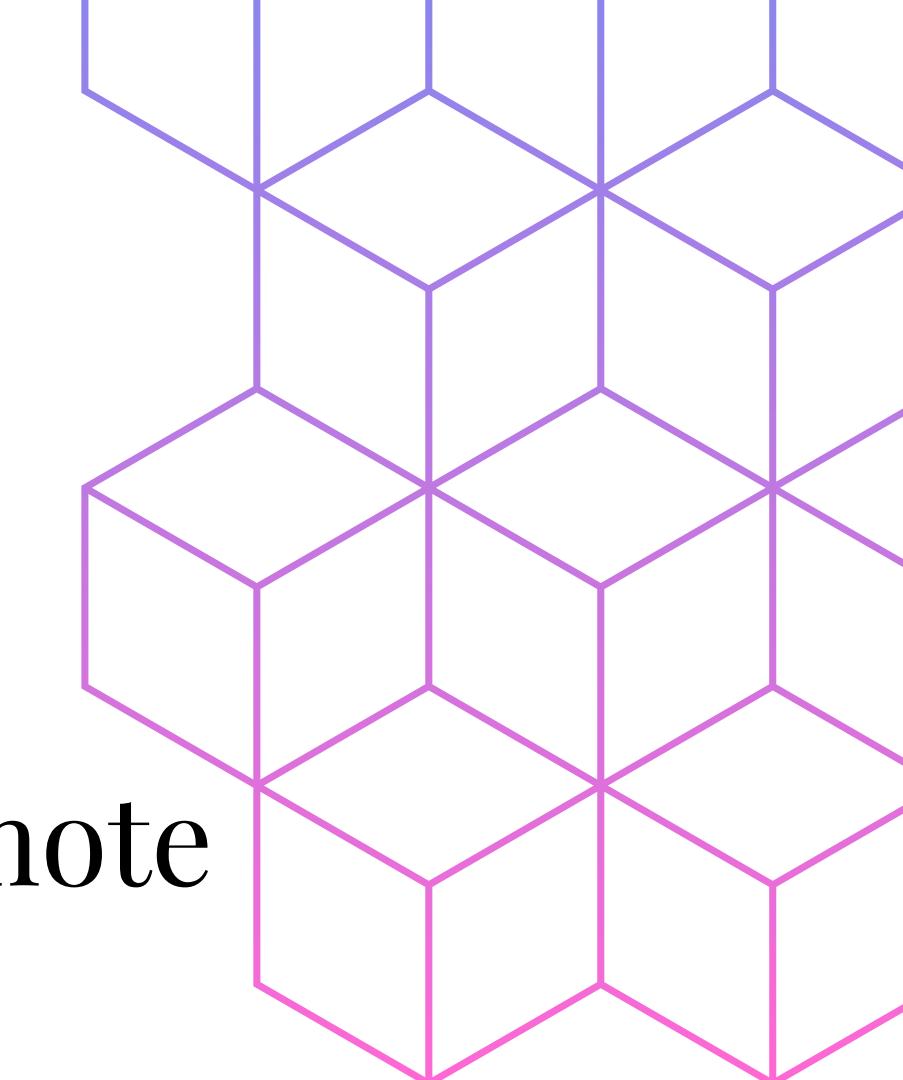




# Introduction

The app aims to simplify expense management, promote financial awareness, and empower students to make informed financial decisions.

Managing personal finances is essential for students to navigate through their academic journey



# Problem Statement

01

Enhancing  
Financial Literacy  
and Money  
Management Skills

02

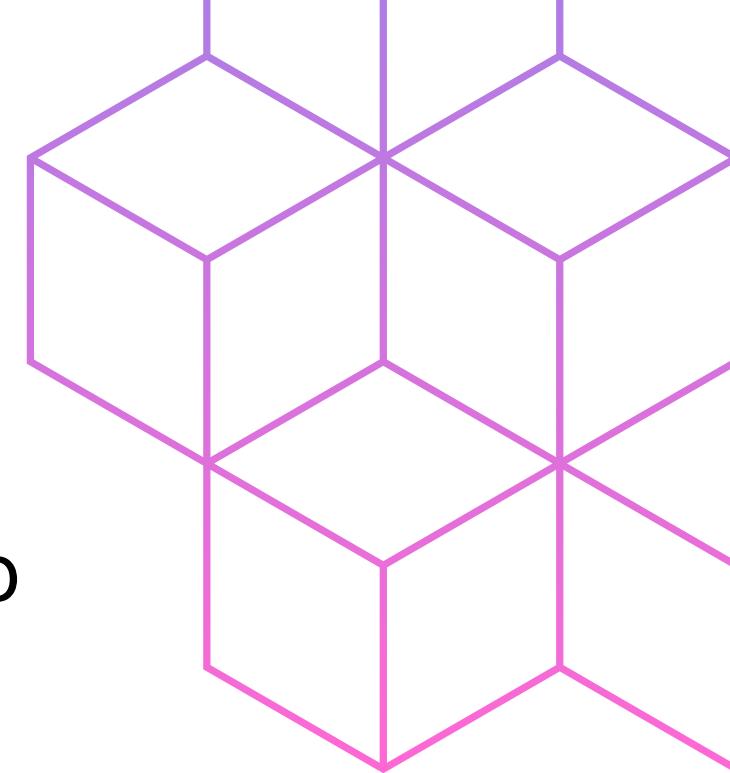
keeping track of  
expenses can be  
challenging amidst  
busy schedules and  
limited budgets.

03

Simplifying  
Expense  
Reporting

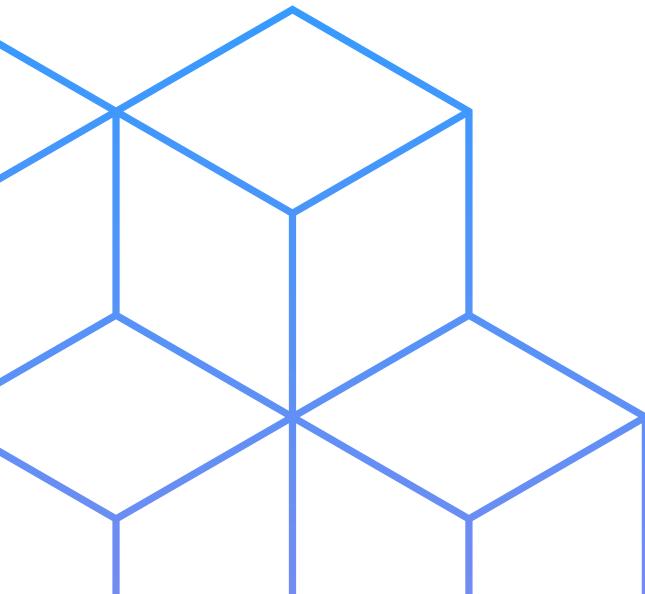
# Aims

- To develop an intuitive and user-friendly expense tracker mobile app that simplifies the process of recording and managing expenses for individuals and businesses.



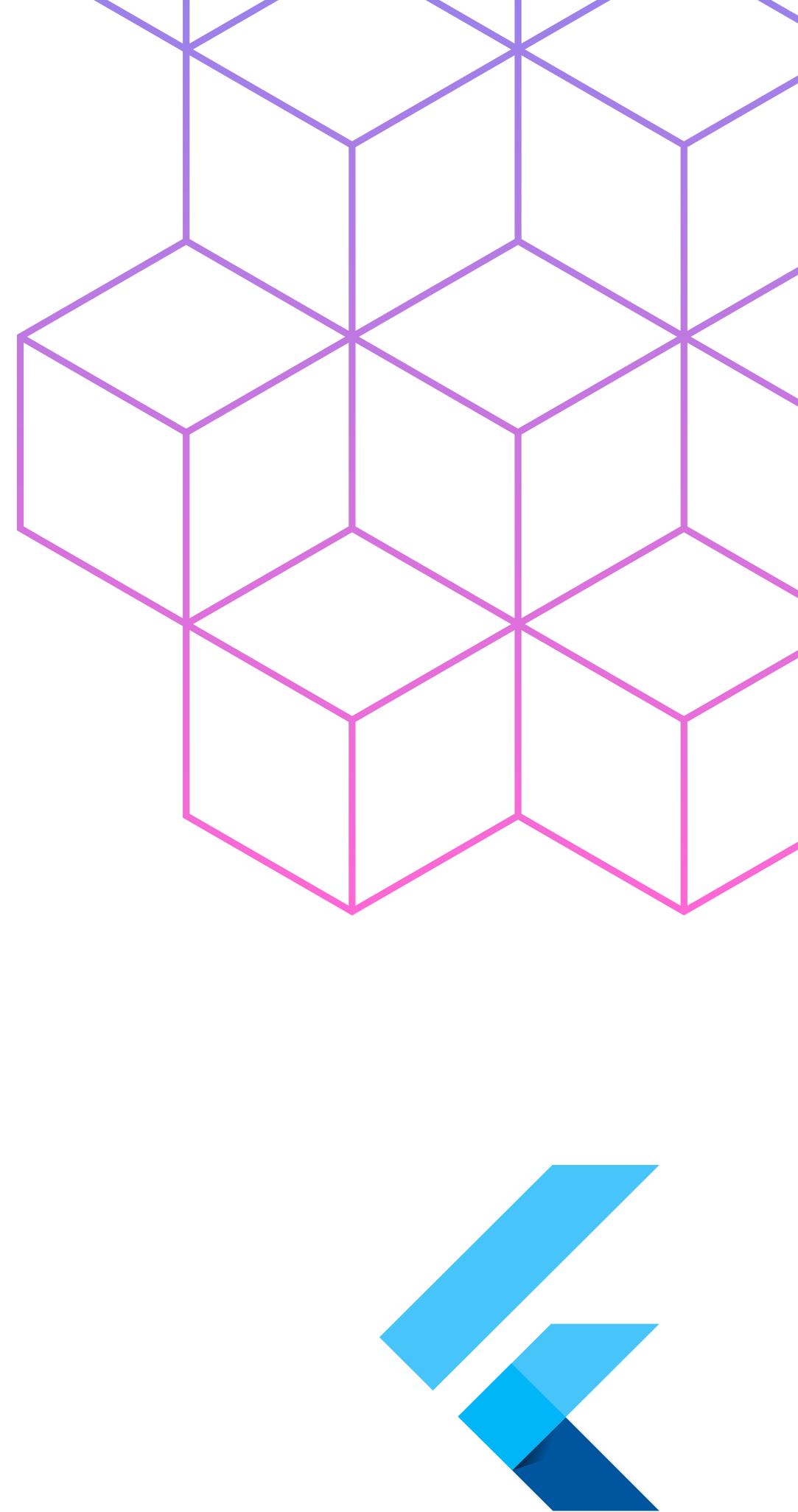
# Objectives

- User-Friendly Interface
- Budget Management.
- Real-Time Data Synchronization
- Comprehensive Expense Tracking

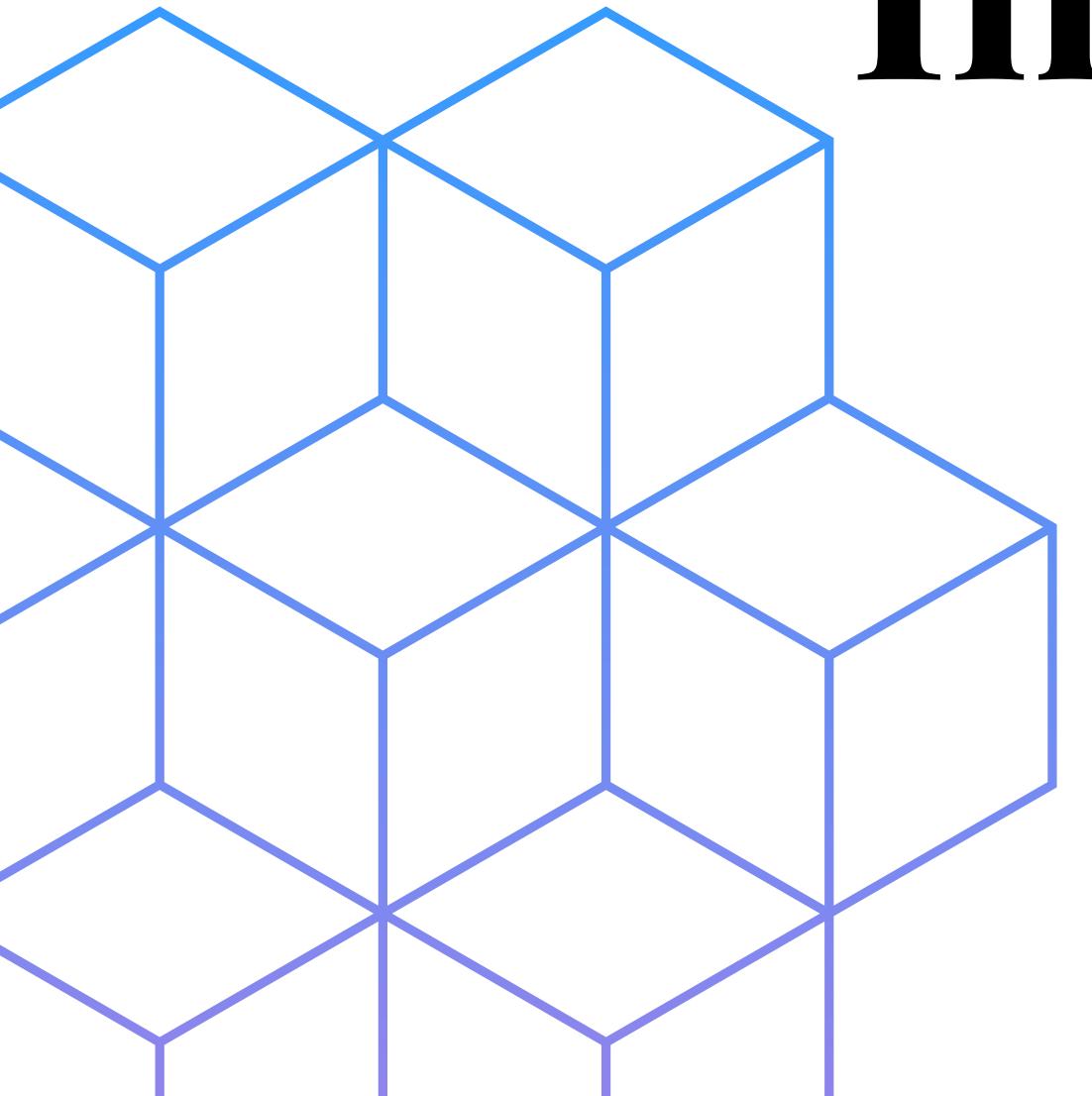


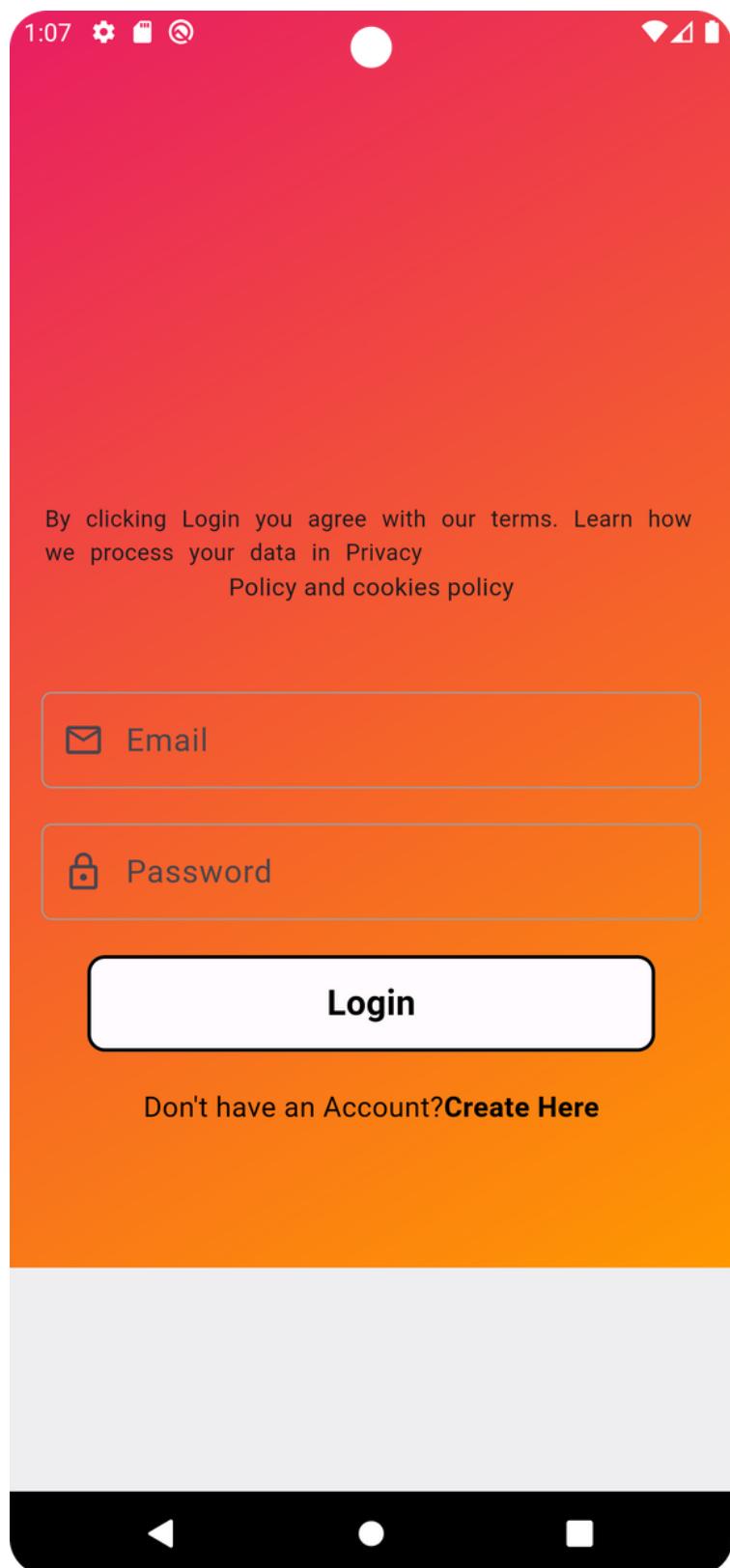
# Features

- Light/dark mode toggle
- Beautiful UI
- Smooth page transition
- Chart
- Responsive UI
- Local storage



# Implementation

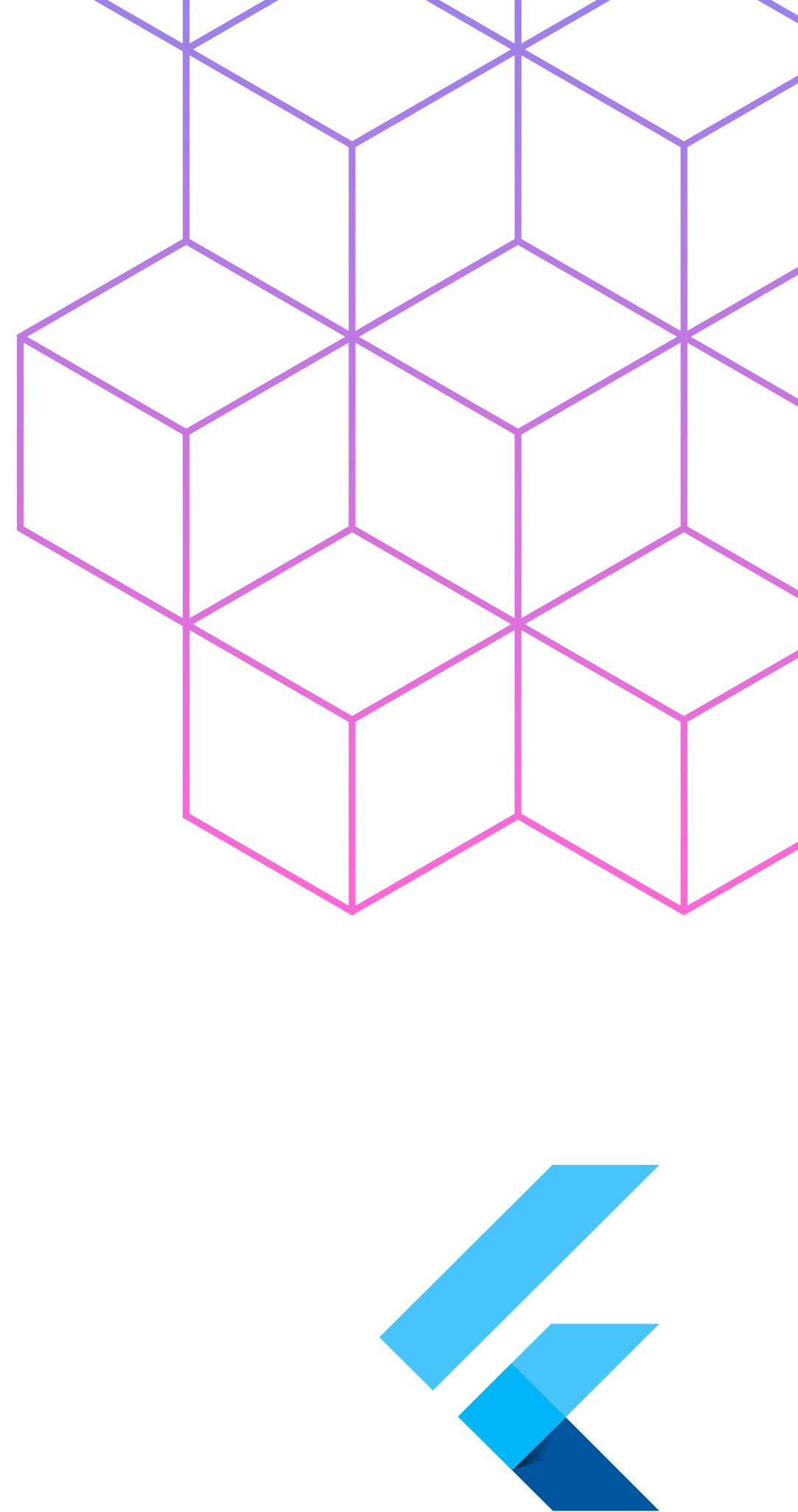
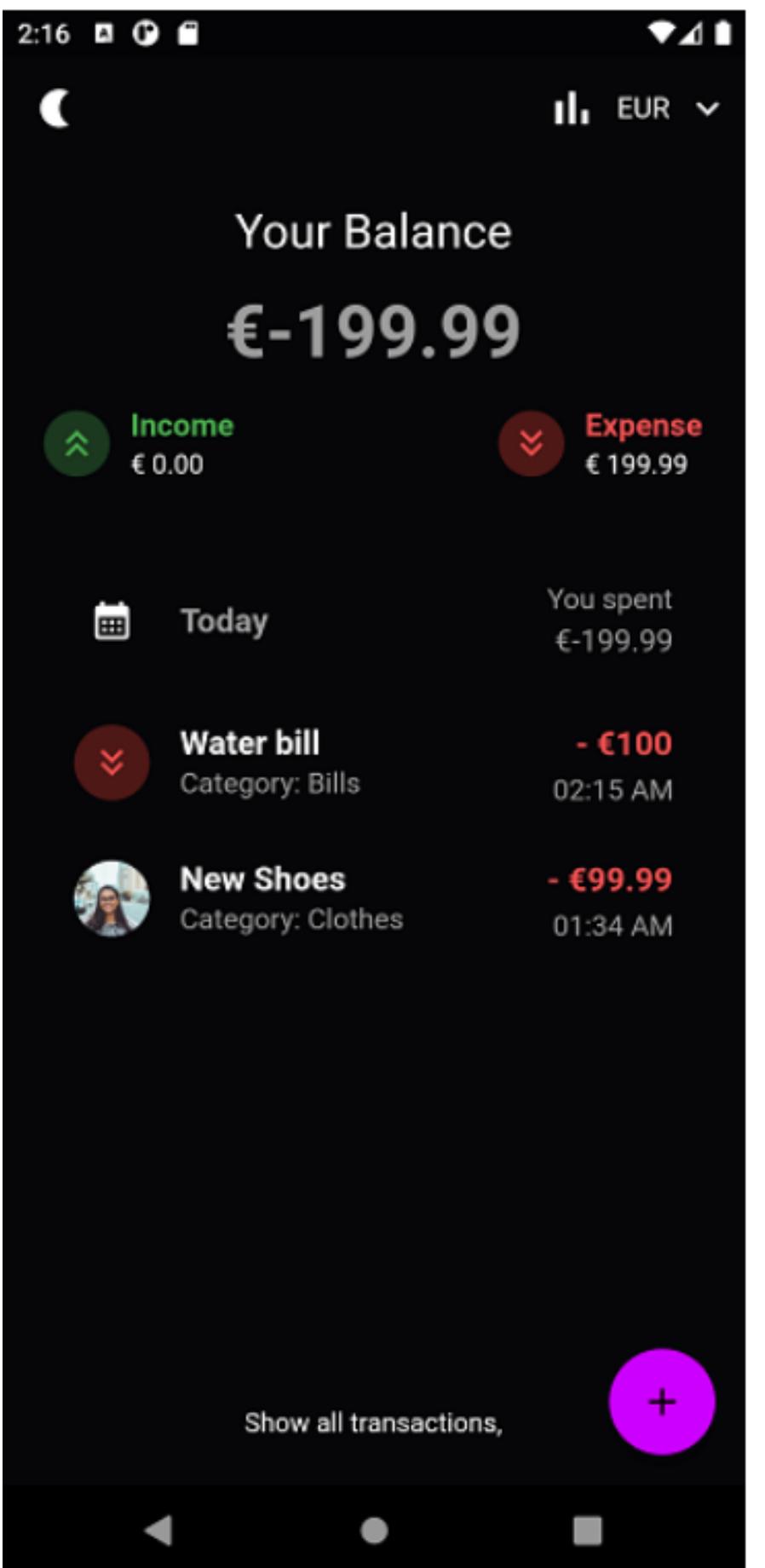
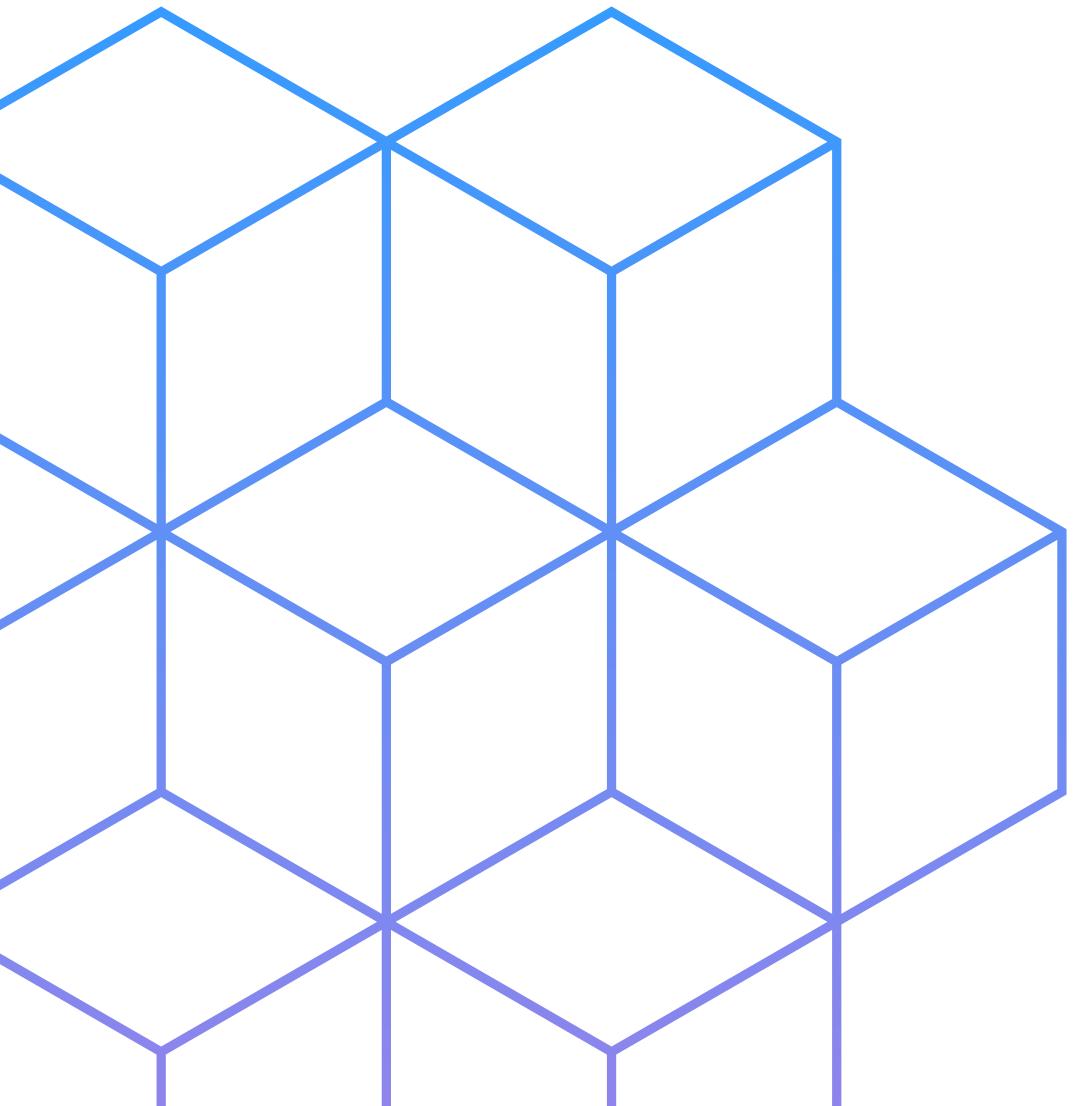




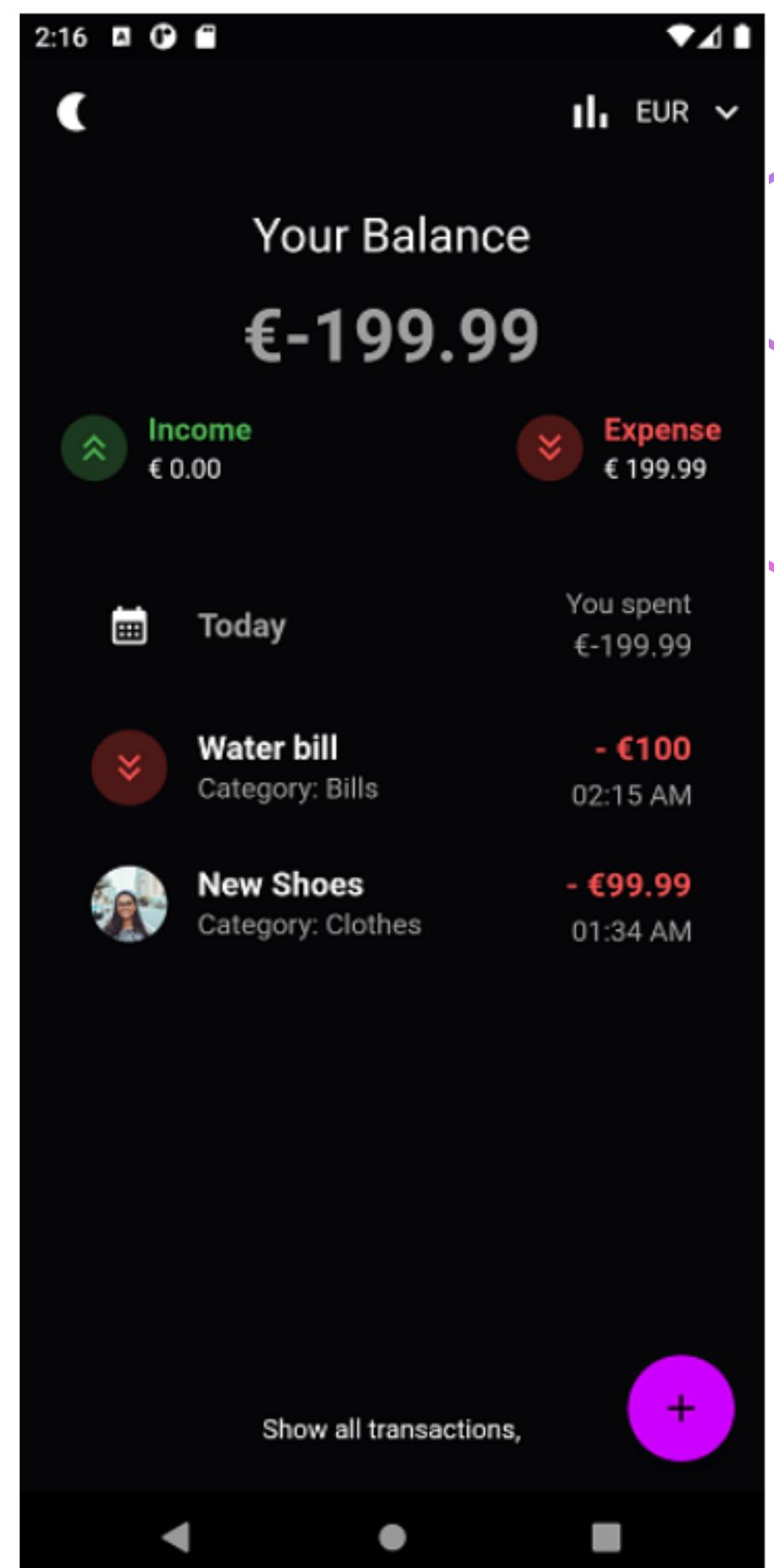
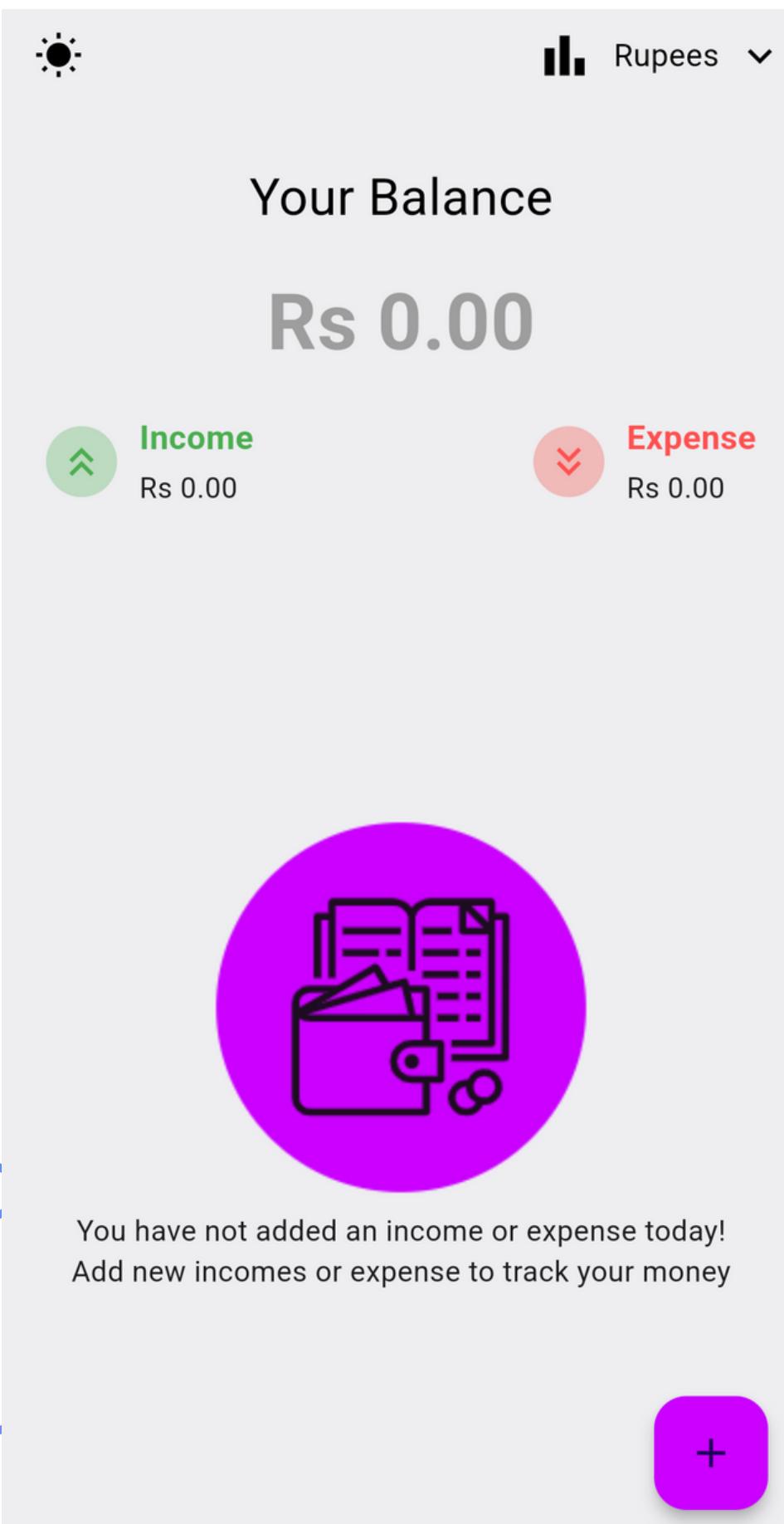
# Aunthentication using firebase

Identifier	Providers	Created	Signed in	User UID
yashyash@gmail.com	Email	11 Mar 2024	5 Apr 2024	qdxZTL67dwQxmV4cKd65eK...
yashuskelwar@ves.ac.in	Email	5 Mar 2024	5 Mar 2024	bv37GTyzYwXQtX1XOyjKtIIEB...
uskelwaryash@gmail.c...	Email	5 Mar 2024	16 Mar 2024	IMU8uZGyUIPBCBh22cNKnthv...
wwe@gmail.com	Email	5 Mar 2024	5 Mar 2024	DaCVnDJVvDPk0zwKVlp5cxL...
yashuskelwar@gmail.c...	Email	4 Mar 2024	5 Mar 2024	HsRck036rNXKmjVPodh5Wrlil...

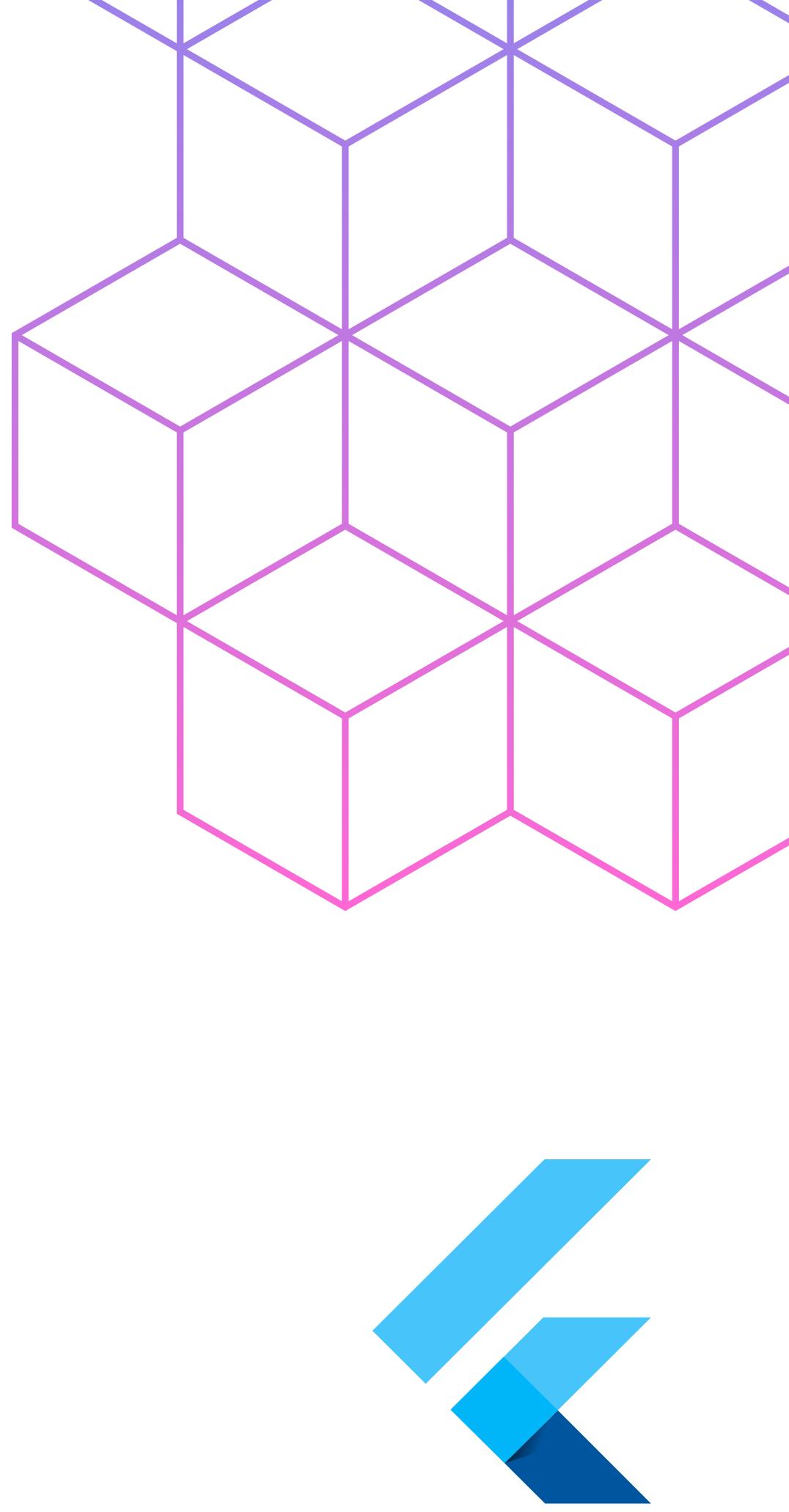
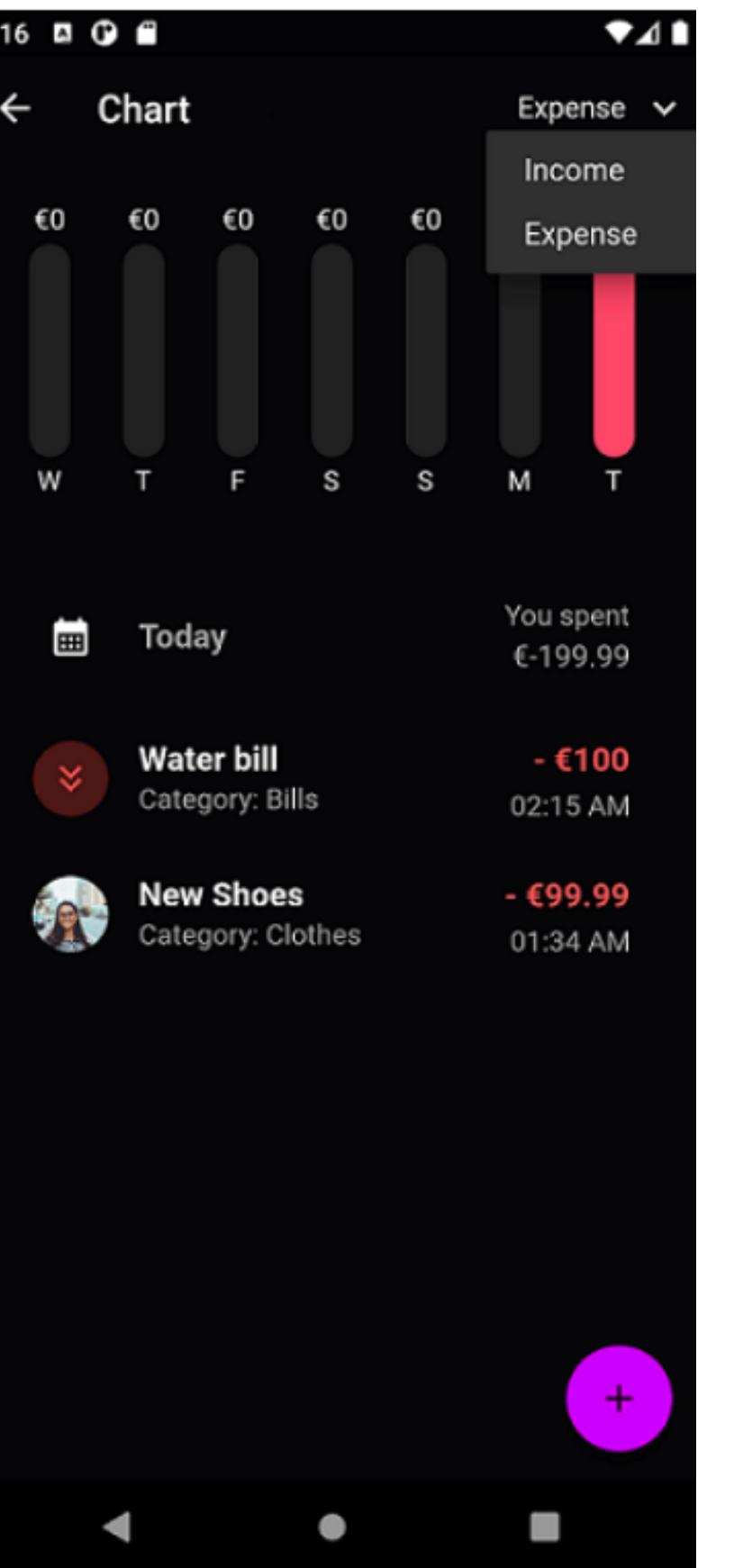
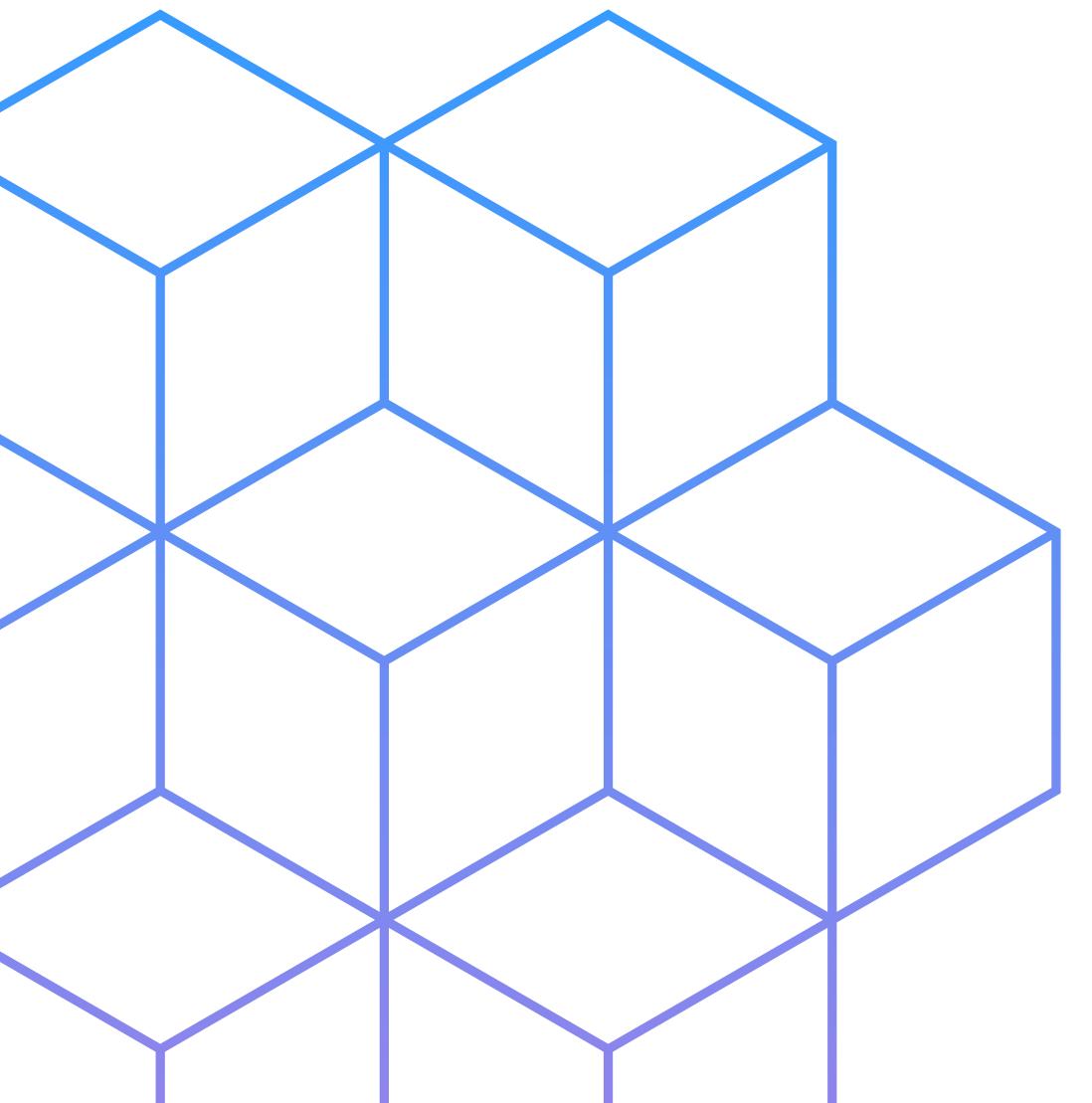
# Home page



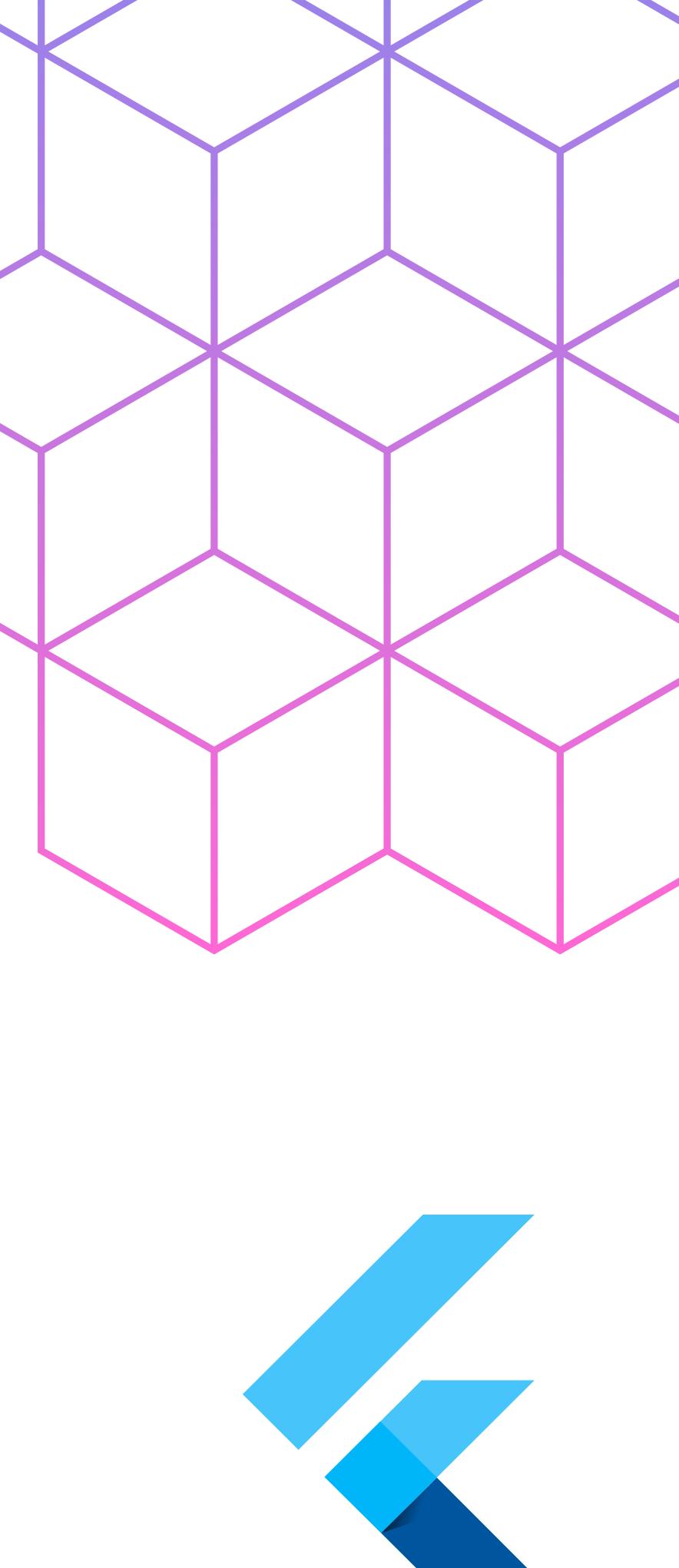
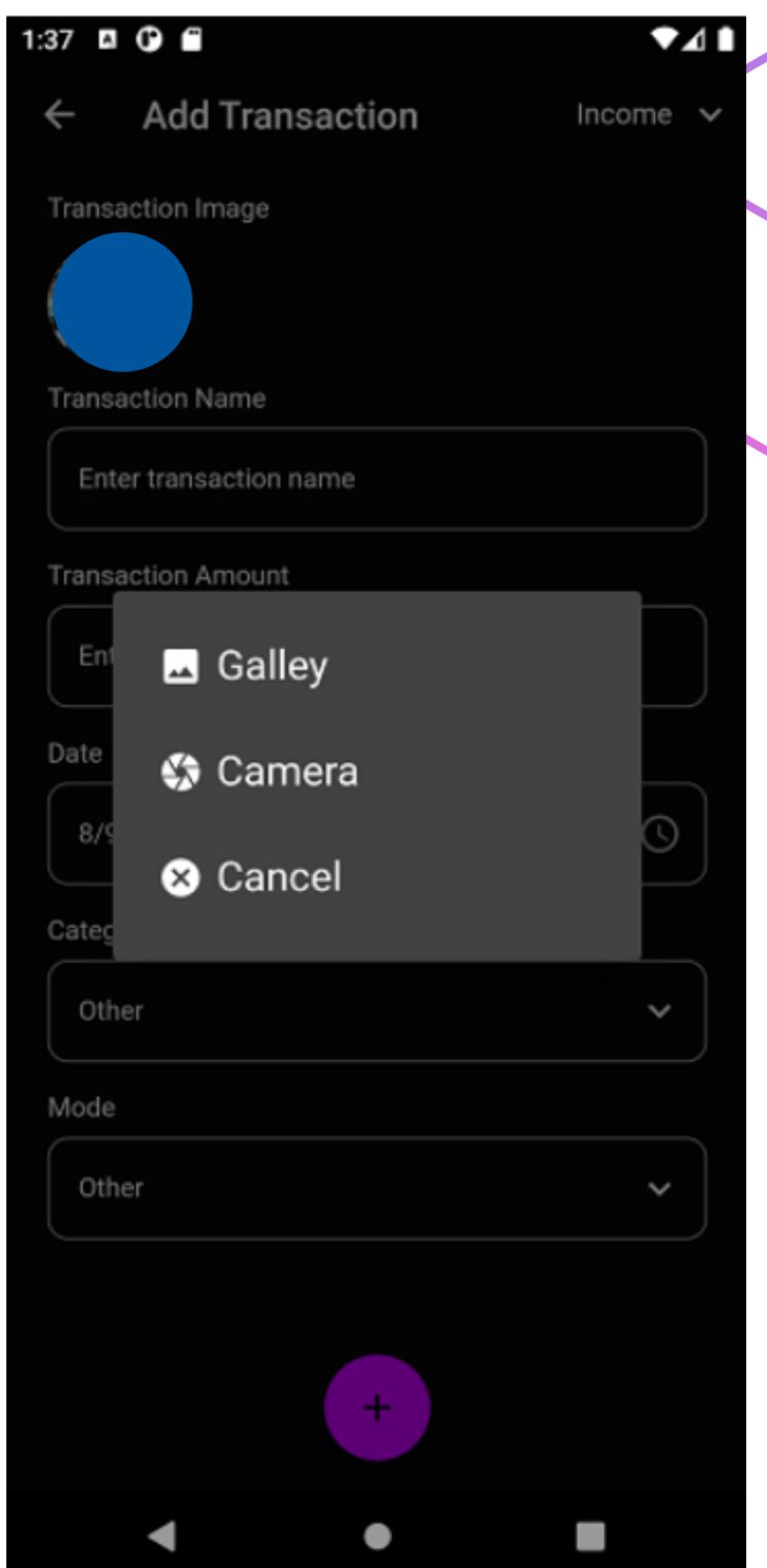
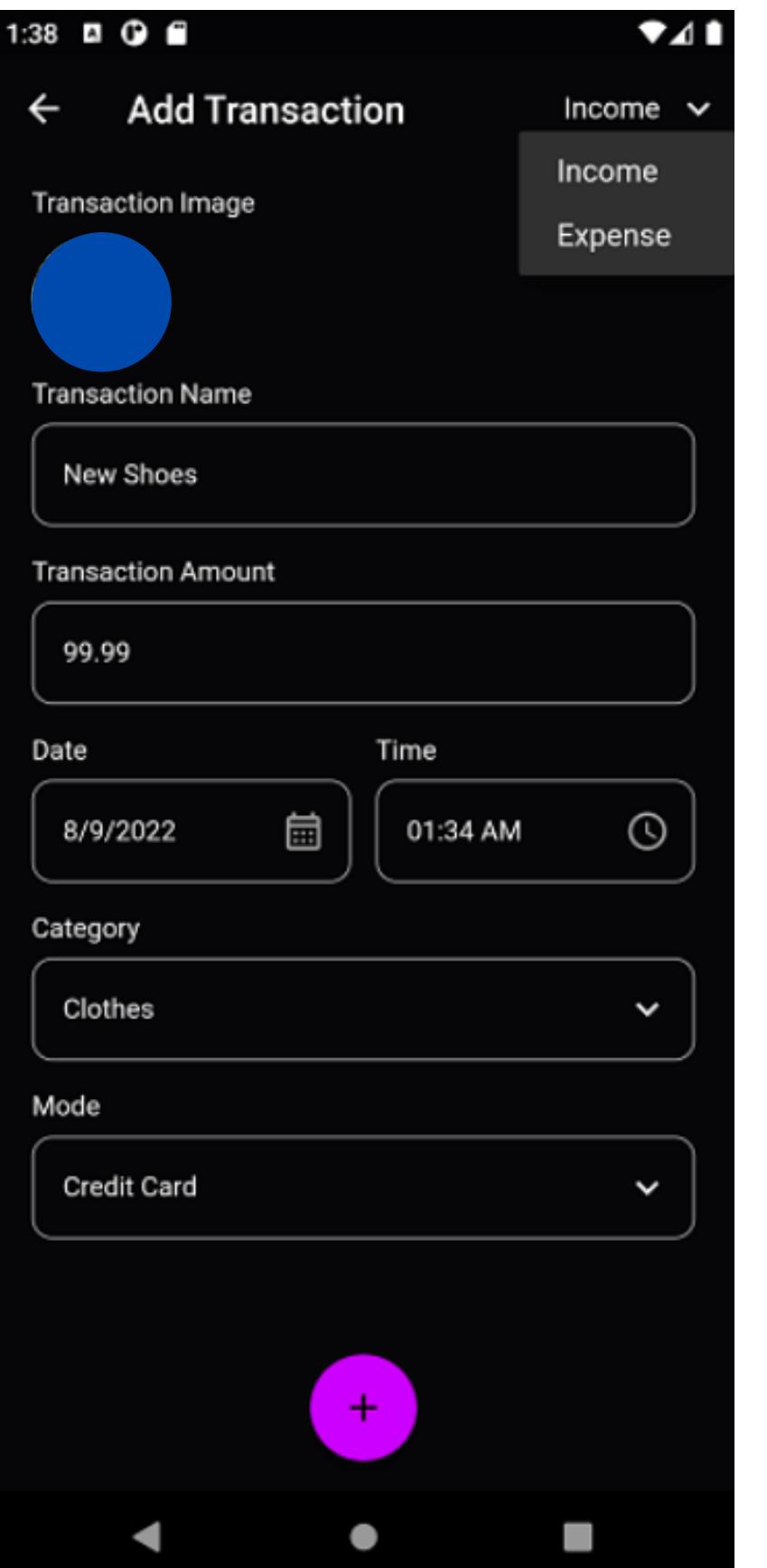
# Themes



# Dynamic Charts



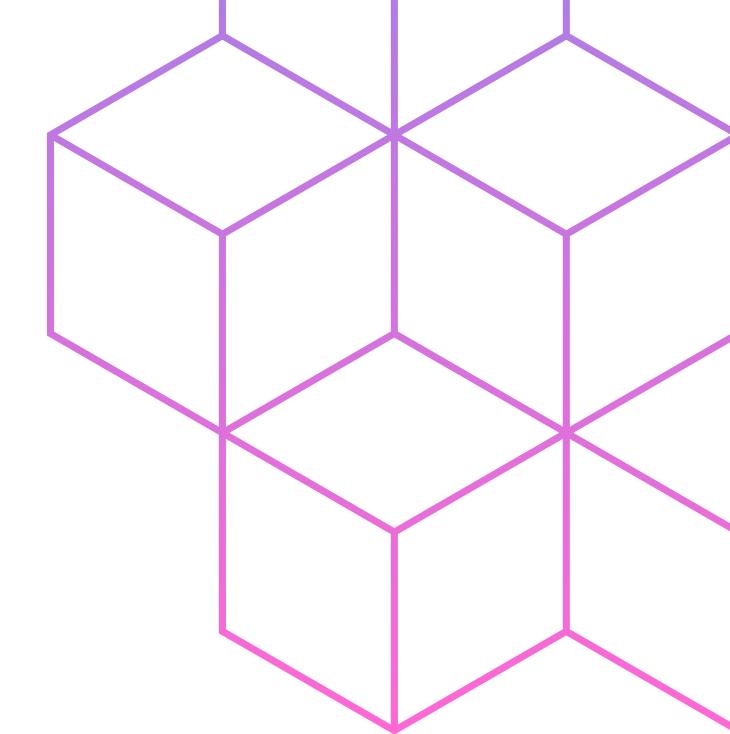
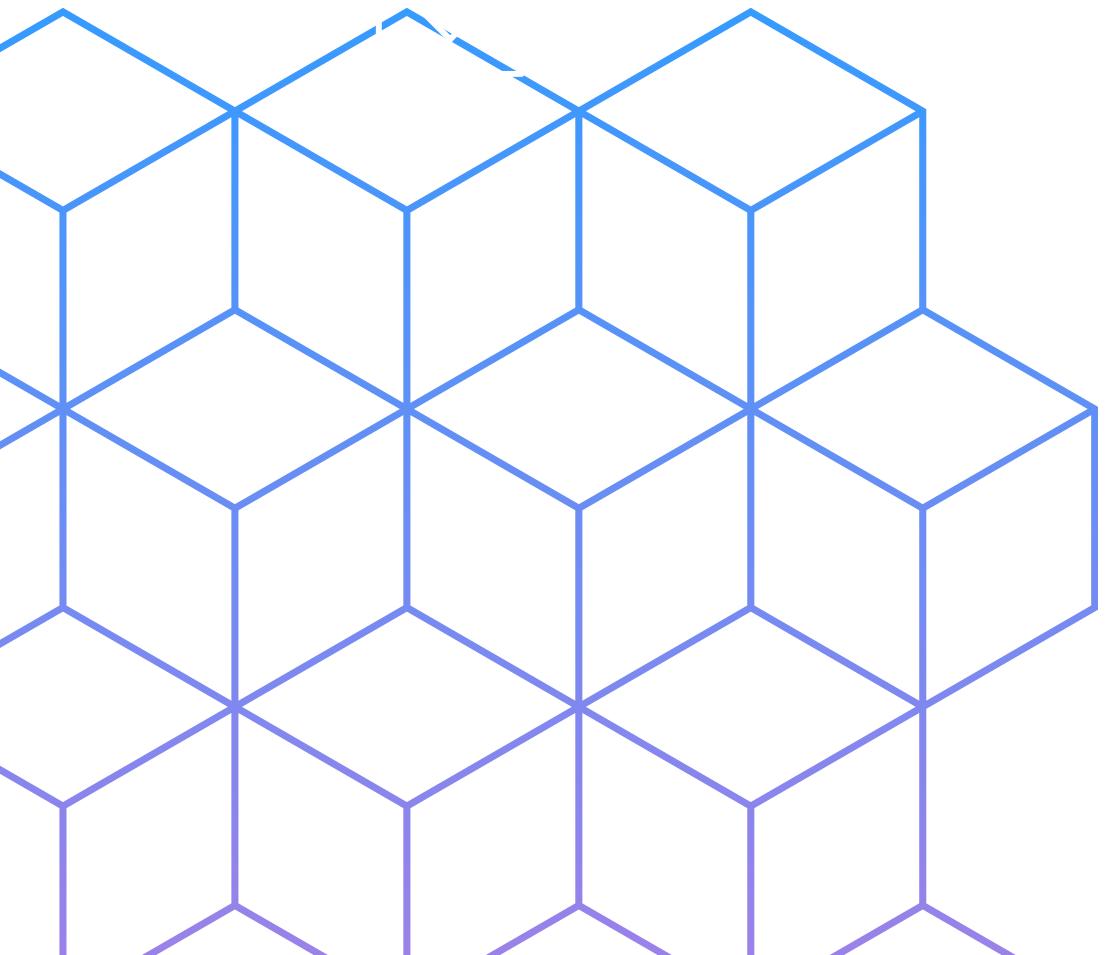
# Adding expense /income





# Software requirements

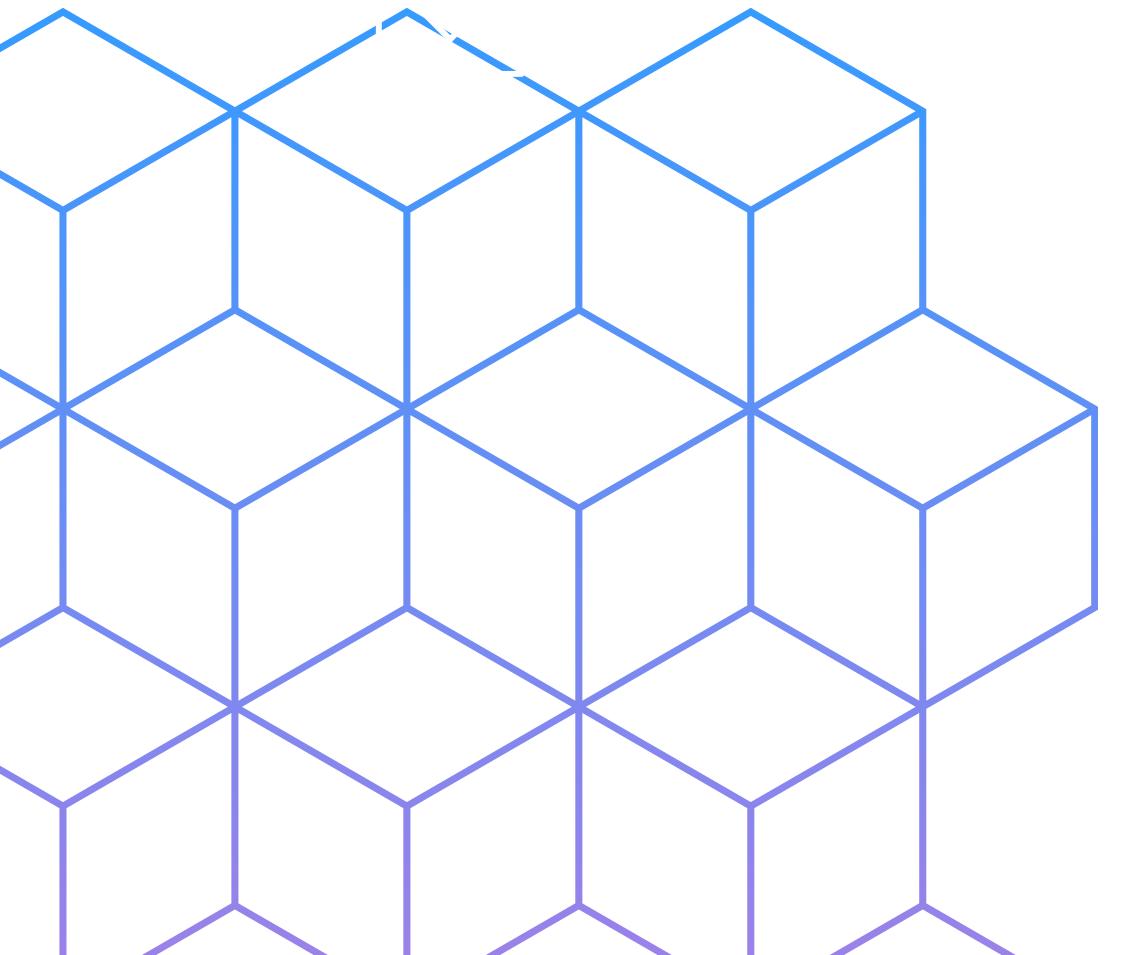
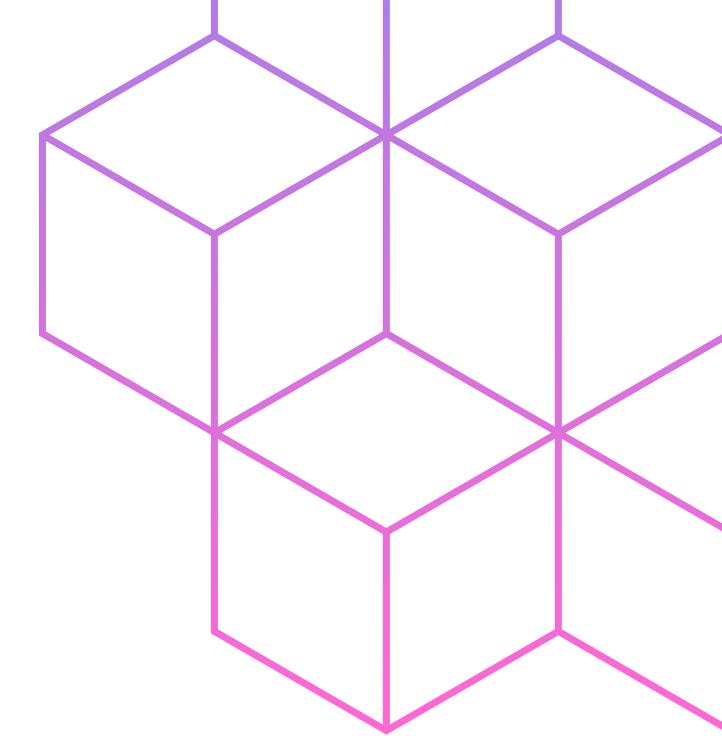
- Development Environment:
- Flutter SDK
- Dart
- Android Studio IDE
- Android emulator
- Git
- Firebase





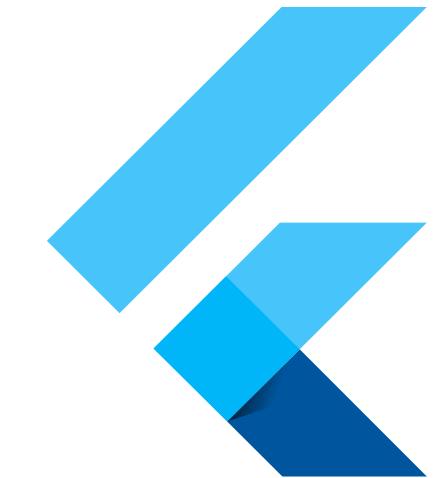
# Hardware requirement

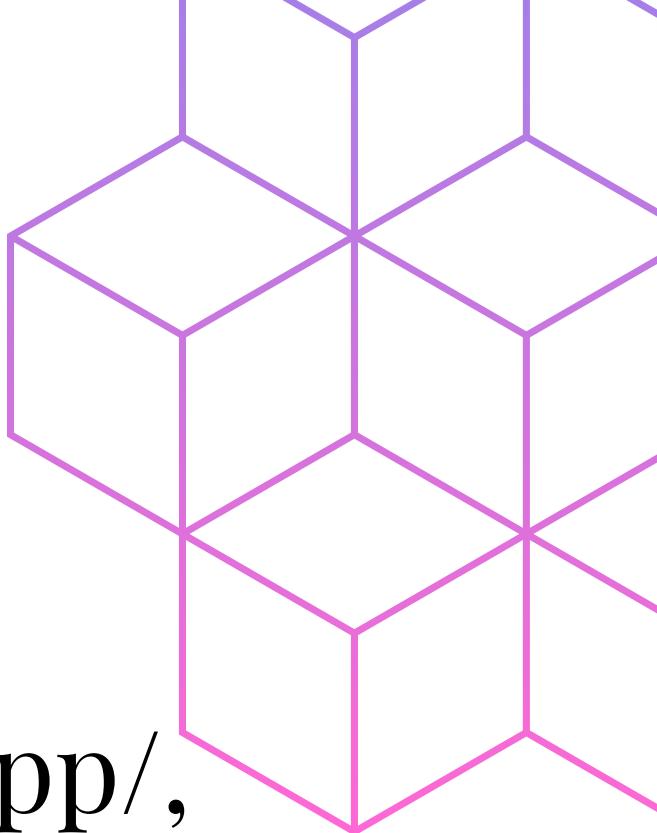
- Computer
- Monitor
- Internet Connection
- Mobile Devices:  
Compatible with  
modern ios



# Conclusion

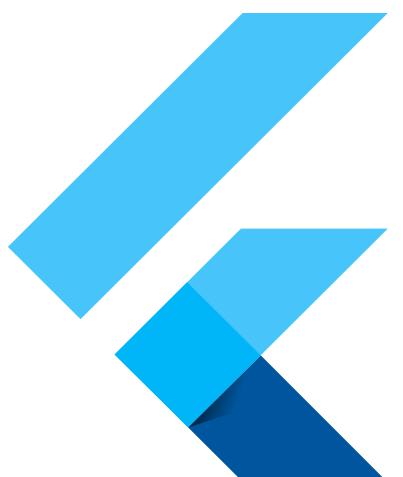
By providing an intuitive platform for expense tracking, budget management, and financial analysis, our app empowers users to take control of their financial well-being and make informed decisions with confidence.





# References

1. Agwe Bryan, Flutter Expense Tracker App,  
<https://flutterawesome.com/flutter-expense-tracker-app/>,  
Aug 10, 2022
2. Fatuma Yattani, Project 3: Building an Expense Tracker App! ,  
<https://medium.com/@fyattani/project-3-building-an-expense-tracker-app-e059543e1d9a>, Oct 5, 2023
3. Ananta Raha, MyMoney—Track Expense & Budget,  
<https://play.google.com/store/apps/details?id=com.raha.app.mymoney.free&pli=1>, Feb 2, 2024



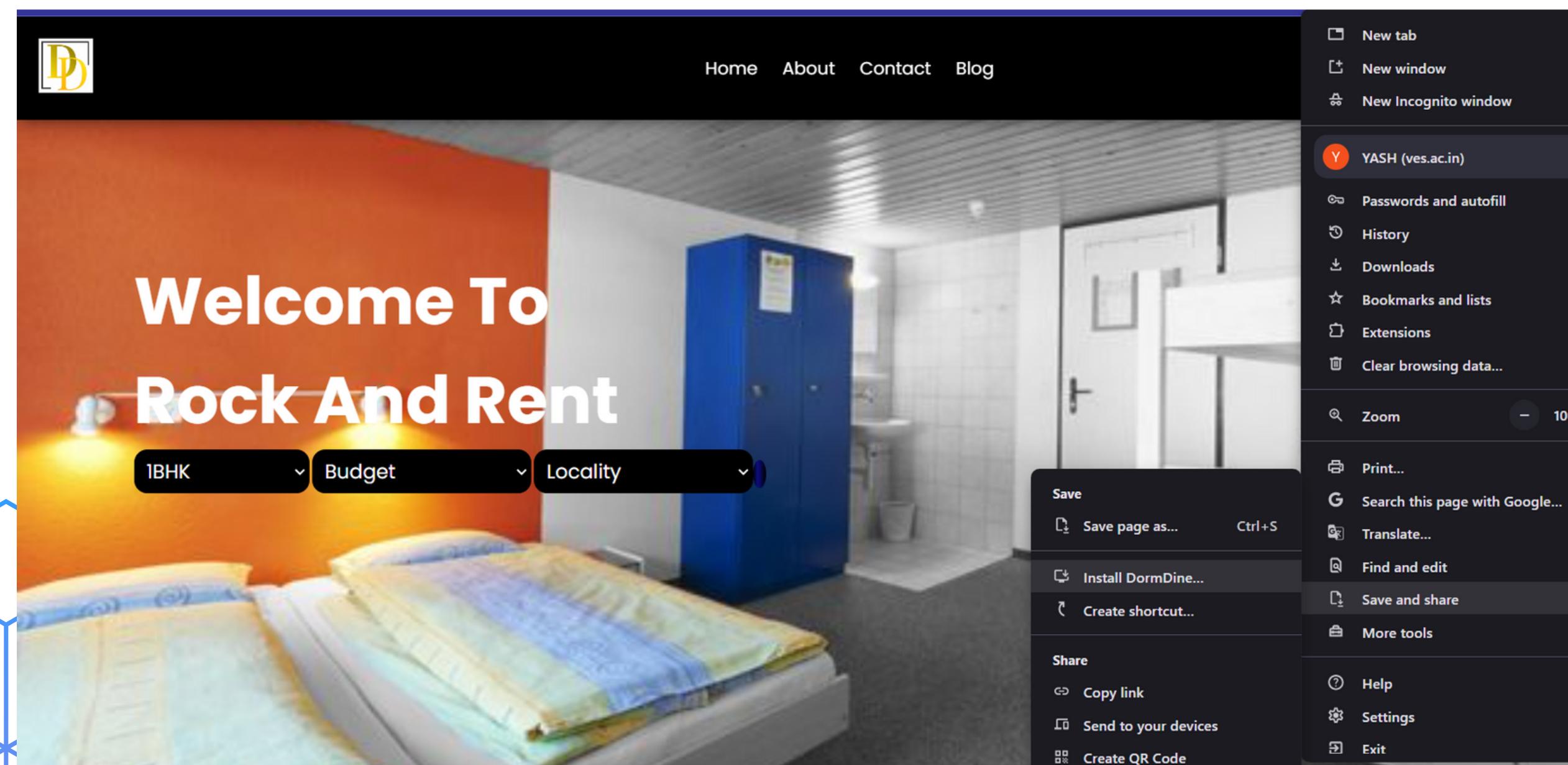


# Progressive web application

# Introduction

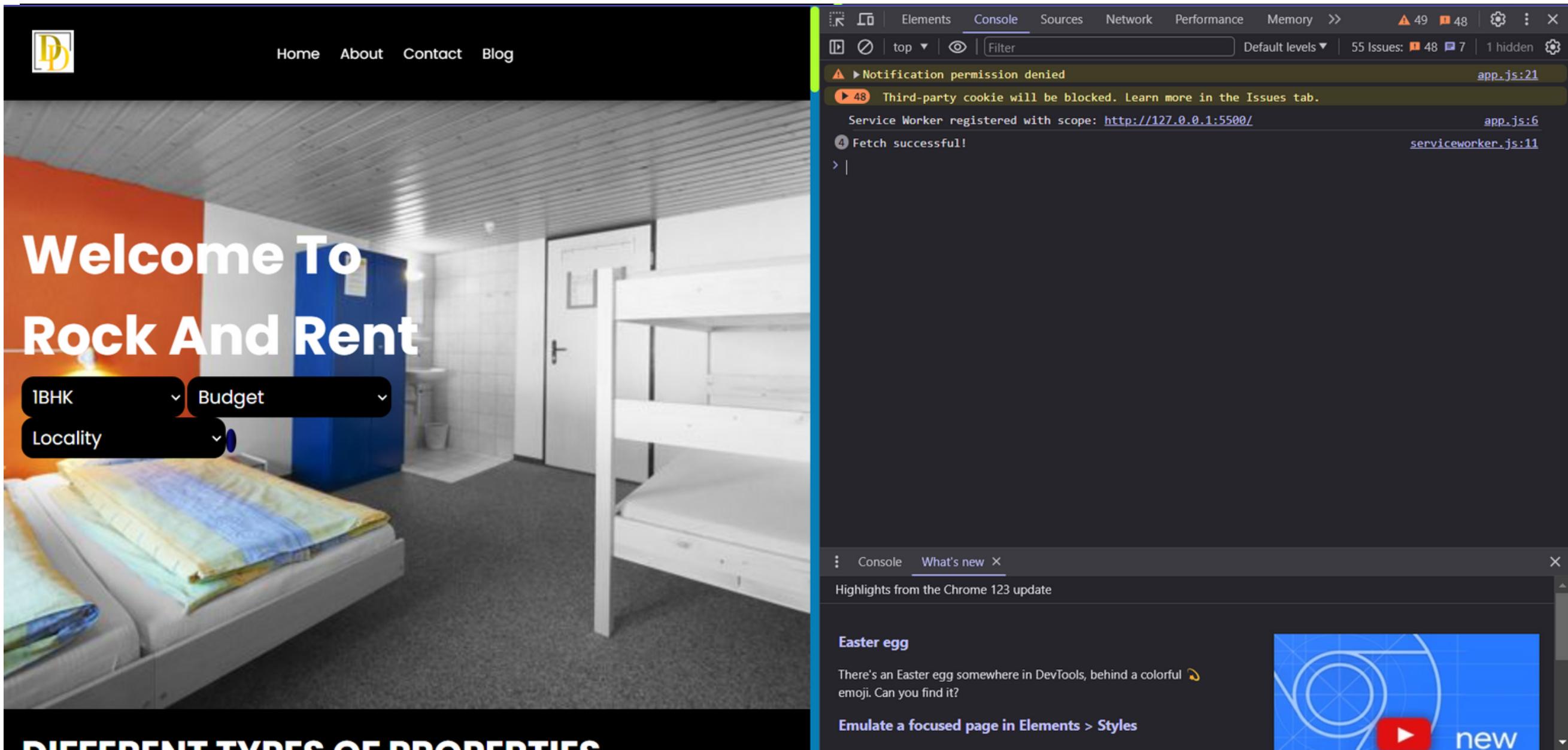
PWA stands for **Progressive Web App**. It's a type of web application that utilizes modern web capabilities to deliver an app-like experience to users. PWAs are designed to work on any platform that uses a standards-compliant browser, including desktop and mobile devices.

# Installation of PWA



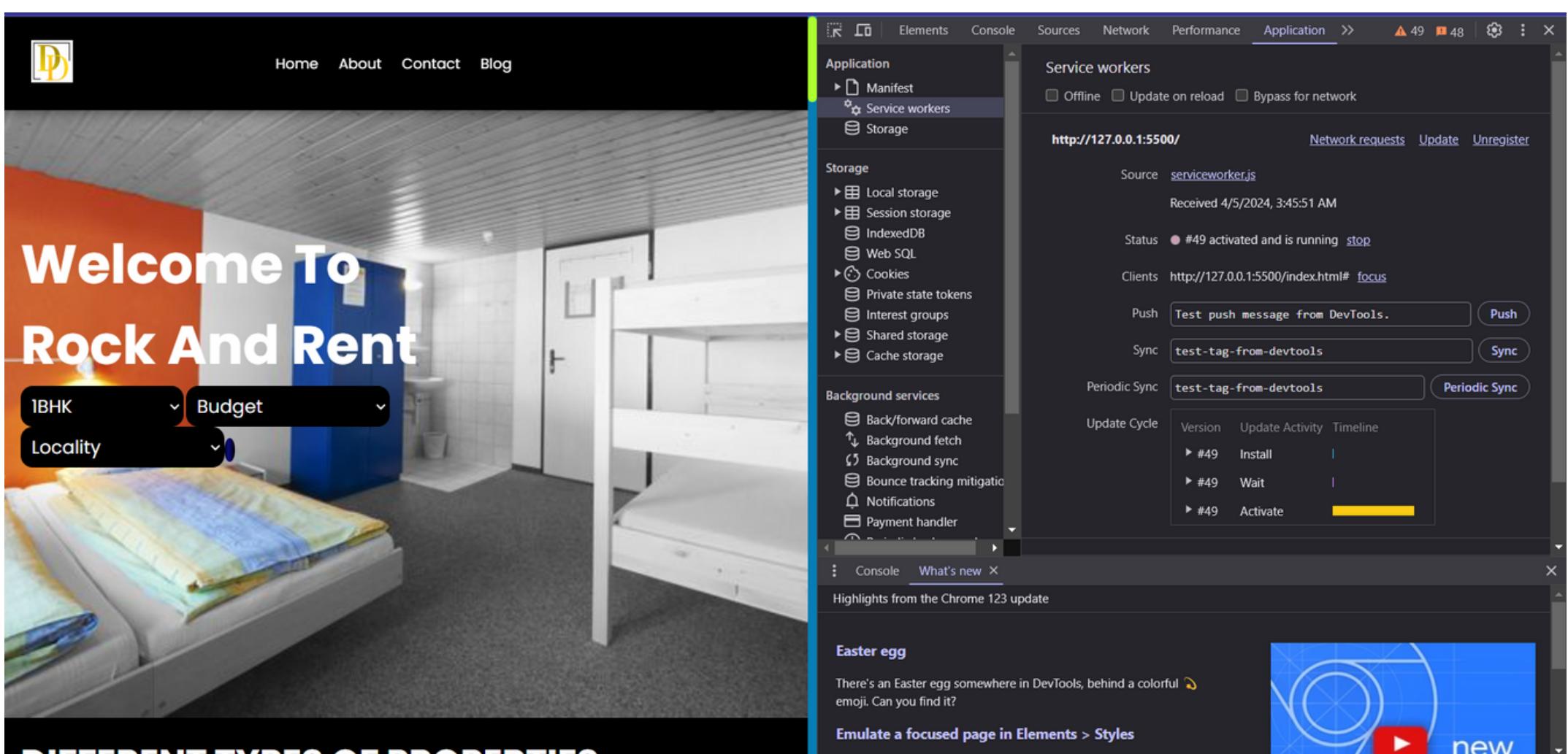
Users can install PWAs directly to their device's home screen, allowing for quick access and a more integrated experience.

# Service workers



A service worker is a type of script that runs in the background of a web application, separate from the main browser thread. It is a key component of Progressive Web Apps (PWAs) and enables features such as offline functionality, push notifications, and background synchronization.

# push and sync functionality



## Push notification

Service workers can receive push notifications from a server and display them to the user, even when the web application is not open in the browser.

## Background Synchronization:

Service workers can perform background synchronization tasks, allowing web applications to sync data with a server periodically

# push and sync functionality

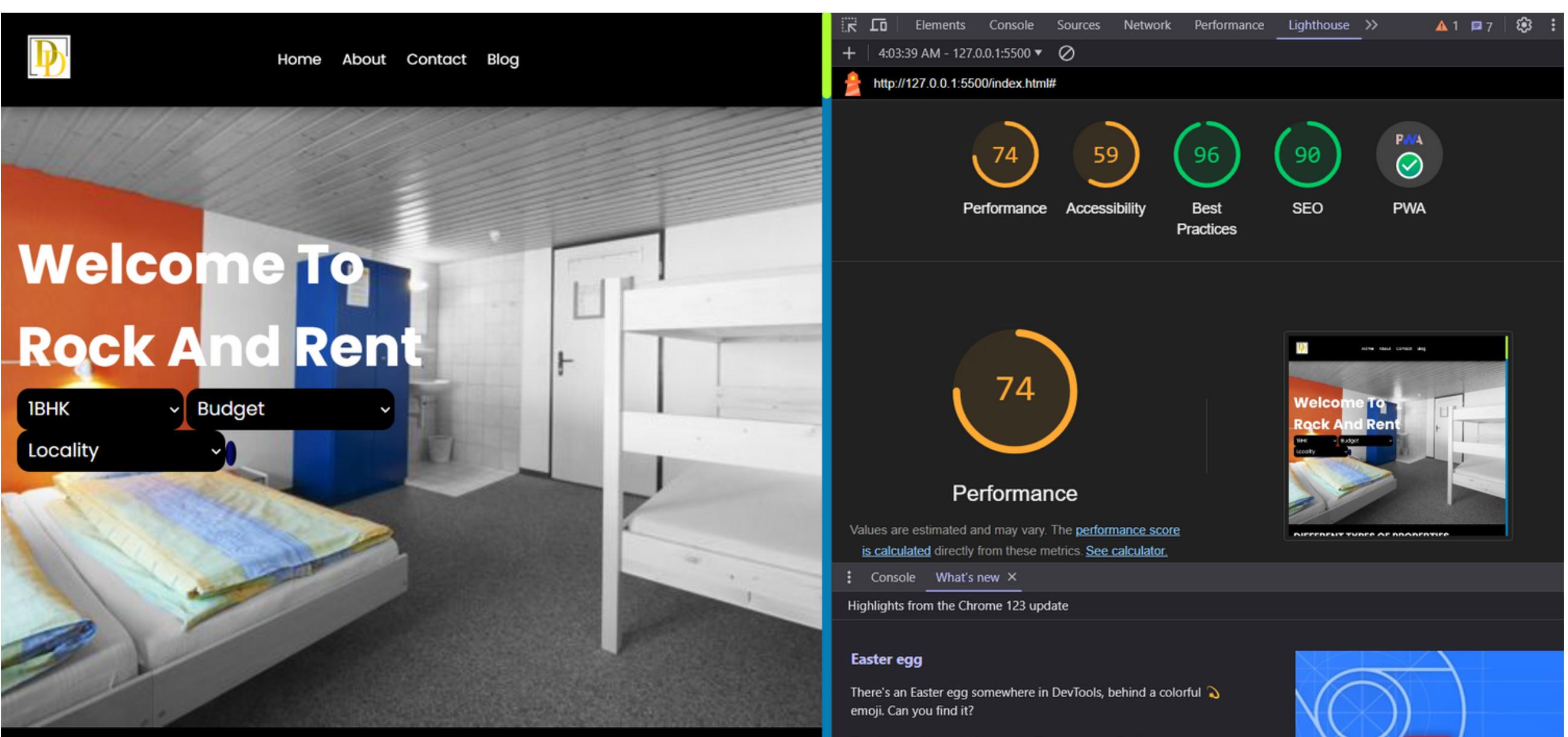
The screenshot shows a web browser displaying a real estate listing for a 1BHK property. The page features a large image of a bedroom with two single beds. Overlaid on the image are several UI elements: a search bar with dropdown menus for '1BHK', 'Budget', and 'Locality'. The main heading reads 'Welcome To Rock And Rent'. In the top right corner of the browser window, the developer tools' 'Console' tab is open, showing the following log output:

```
Fetch successful!
Notification permission granted
Fetch successful!
Service Worker registered with scope: http://127.0.0.1:5500/
Fetch successful!
Fetch from cache successful!
⚠ The FetchEvent for "http://127.0.0.1:5500/favicon.ico" resulted in a network error response: an object that was not a Response was passed to respondWith().
✖ GET http://127.0.0.1:5500/favicon.ico net::ERR_FAILED
Push notification sent
Sync successful!
```

At the bottom of the developer tools, there's an 'Easter egg' message: 'There's an Easter egg somewhere in DevTools, behind a colorful 🌈 emoji. Can you find it?' and a link to 'Emulate a focused page in Elements > Styles'.

Push and sync  
function are  
executed in  
the screenshot

# Light house



Lighthouse is an open-source, automated tool developed by Google that is used to improve the quality of web pages. It evaluates web pages against a set of best practices and provides actionable recommendations to improve performance, accessibility, best practices, SEO (Search Engine Optimization), and PWA (Progressive Web App) aspects.



**THANK YOU !**

