**Project Title: Expense Manager**

**M Hassan 20SW012**

**Zohaib Sathio 20SW036**

**Table of Contents**

**Introduction**

* Project Overview
* Objectives
* Scope

**Project Description**

* Features and Functionality
* Target Audience
* Platform and Technologies Used

**Development**

* Flutter Framework and Dart
* Firebase Services Integration
* Key Development Milestones

**Features and Screens**

* Dashboard
* Add Income
* Add Expense
* Show Charts

**1. Introduction**

Project Overview

The Expense Manager app is designed to help users efficiently manage their expenses and income. Developed using Flutter for cross-platform compatibility and Firebase for backend services, it provides a user-friendly interface for adding and categorizing expenses and income, along with visual representations of financial data using pie charts.

Objectives

The main objectives of this project are:

* To create a user-friendly mobile application for expense and income management.
* To provide a dashboard for users to view their financial summary.
* To allow users to add, edit, and categorize expenses and income.
* To visualize financial data using pie charts.
* To ensure data security and user privacy through Firebase.

Scope

The scope of the Expense Manager app includes four main screens: Dashboard, Add Income, Add Expense, and Show Charts. The app leverages Flutter for cross-platform development and Firebase for authentication, real-time database, and cloud storage.

**2. Project Description**

Features and Functionality

* Dashboard: Displays an overview of income, expenses, and a pie chart representation of expenses by category.
* Add Income: Allows users to record their income with details and categorization.
* Add Expense: Enables users to record expenses, including description, amount, date, and category.
* Show Charts: Presents visual representations of expenses by category through pie charts.
* Firebase Integration: Utilizes Firebase for user authentication, real-time data synchronization, and cloud storage.

Target Audience

The target audience for this app includes individuals and small businesses seeking an efficient way to track their financial transactions on both Android and iOS platforms.

**Platform and Technologies Used**

The Expense Manager app is built using the following technologies:

* Flutter Framework (Dart language)
* Firebase Authentication
* Firebase Firestore (NoSQL database)
* Firebase Storage
* Firebase Security Rules
* Firebase Hosting (Web Dashboard)
* Android and iOS platforms

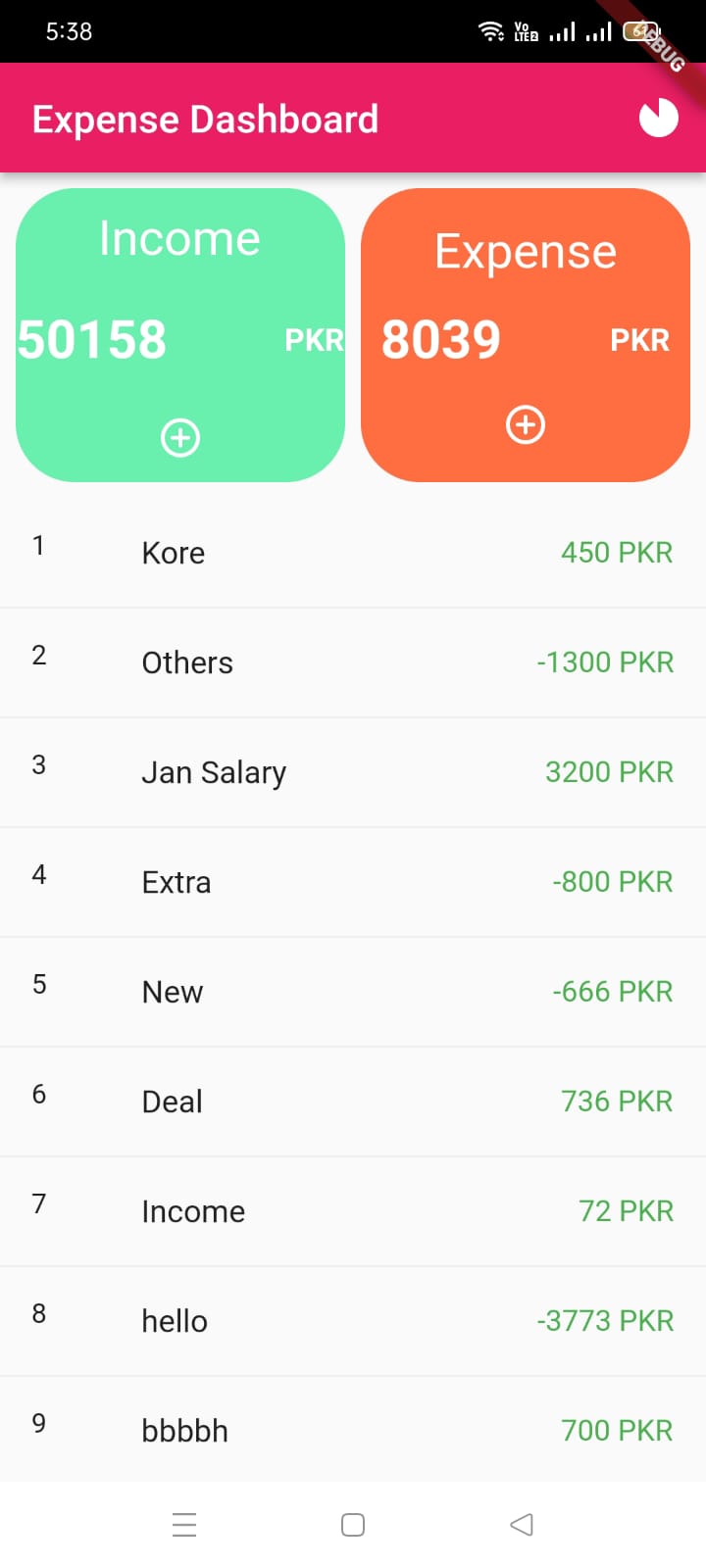
**3. Development**

* Flutter Framework and Dart
* Firebase Services Integration

**Key Development Milestones**

* UI Development
* Firebase Integration

**4. Features and Screens**

 ****

A screenshot of a phone

Description automatically generated 