Transaction Report iOS Application - Feature Overview

This document outlines the core features, utilities, and structure of the Transaction Report iOS application developed using Swift, UIKit, and following the MVVM architecture.

1. Overview

This iOS application displays a user's transaction history in a tabular format and allows exporting the report as a well-formatted PDF. It also includes support for caching, pull-to-refresh, connectivity handling, and reusable components.

2. Key Features

Pull to Refresh

Users can refresh the data by pulling the table view down. This action re-triggers the API call and updates the transaction list.

API Integration with MVVM

The app fetches transaction data from a remote API. The API calling logic is encapsulated in a Generic APIService, ensuring a clean separation of concerns using the MVVM pattern.

Data Caching

The last successful API response is cached using CacheManager. On app launch, cached data is used if it's less than 5 minutes old. This improves speed and provides offline support.

PDF Report Generation

A downloadable PDF version of the transaction report is generated using the TransactionReportPDFGenerator. It supports:

- Proper header & table
- Multi-page support
- Clean formatting

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Share and Save

Users can easily share the generated PDF or save it locally.

Internet Connectivity Handling

Before making API calls, the app checks for internet availability. If there's no connection, a toast message is shown, and the API is not triggered.

Toast Notifications

Success or failure messages are displayed using a reusable Toast utility, improving user interaction and providing clear feedback.

Dynamic Transaction Cell UI

A custom UITableViewCell is used to display transaction category, date, and amount. The

