

Budgeting Expense App

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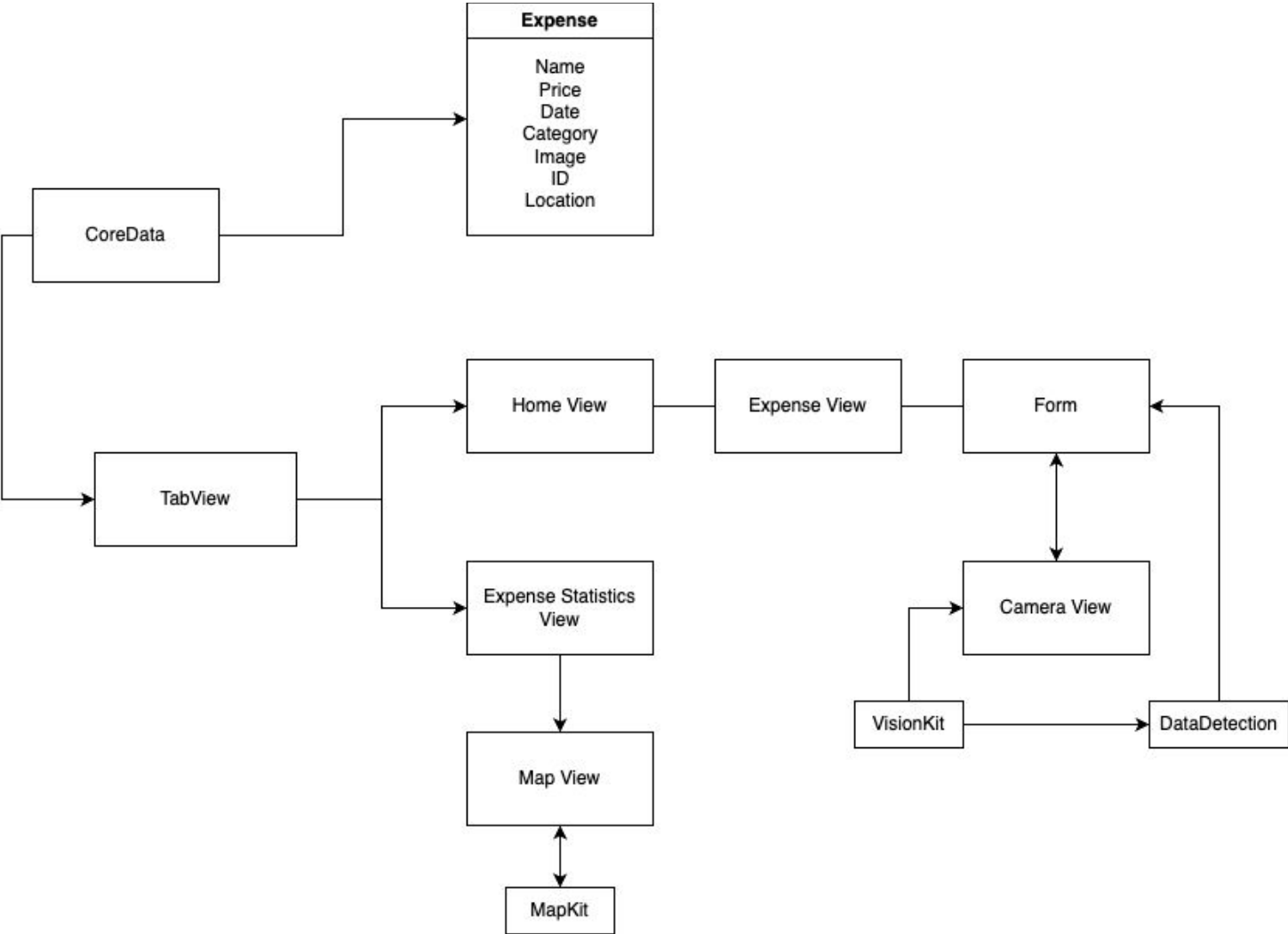
Overview

- This is a budgeting app that allows users to input and track their expenses
- Users can enter expenses in different ways
 - Manually inputting information in a form
 - Scanning receipts using live text data scanning
- Users can see the statistics of their spending
 - Running tally of total amount spent per category in the current month
 - Expenses grouped by date with the ability to filter these expenses by either category or time range

Technologies

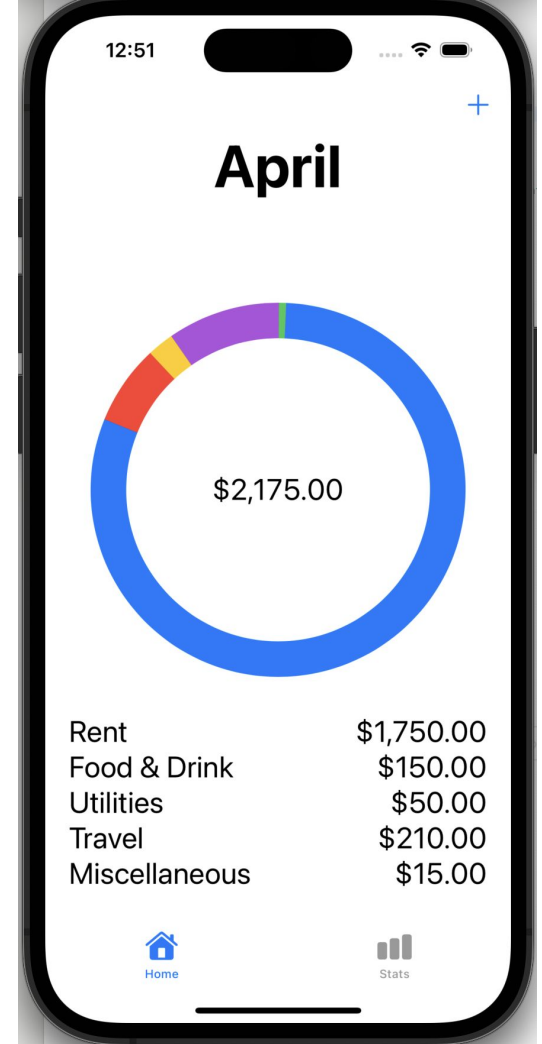
- VisionKit
- CoreData
- Async/Await
- MapKit
- DataDetection

Data Flow



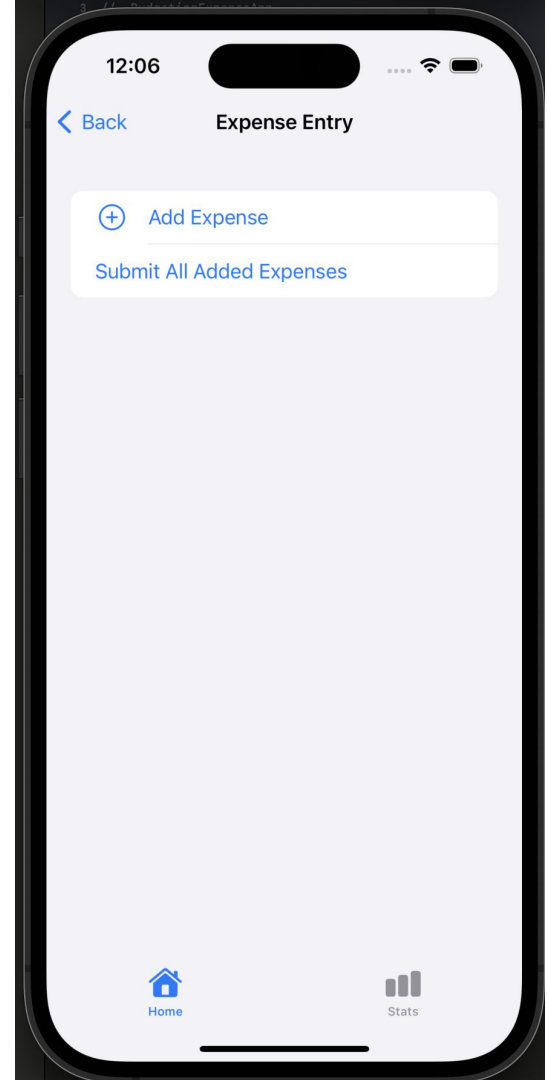
Home View

- Color wheel representing total spent in the specified month
- Running tally of the total expenses per category
- Plus Button navigates to Expense View



Expense View

- Add Expense Button
 - Opens Form to add Entry
- Submit All Added Expenses Button
 - Saves all added expenses to CoreData



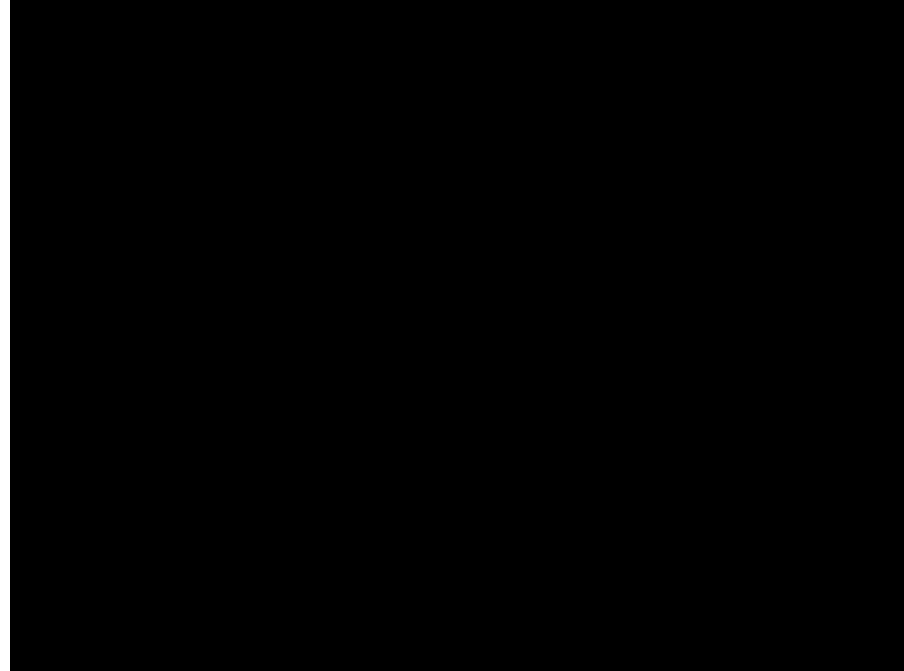
Form

- Manual input
 - Name
 - Price
 - Image
 - Date
 - Category
 - Location
- Button to scan a receipt or image using VisionKit

The image shows a mobile application interface on a smartphone. At the top, the status bar displays the time 12:06, signal strength, Wi-Fi, and battery icons. The app's header is a light purple bar. Below it, the form consists of several sections, each with a title in a small, light purple font: 'NAME' with a text input field containing 'Name'; 'PRICE' with a text input field containing '0'; 'IMAGE' with a text input field containing a blue paperclip icon; 'DATE' with a date picker showing 'Date' and 'Apr 28, 2024'; 'CATEGORY' with a dropdown menu showing 'Category' and 'Rent'; 'LOCATION' with a text input field containing 'Location'; and a 'Scan Receipt' button with a camera icon and the text 'Scan Receipt'. At the bottom of the form is a 'Done' button. The entire form is set against a light purple background.

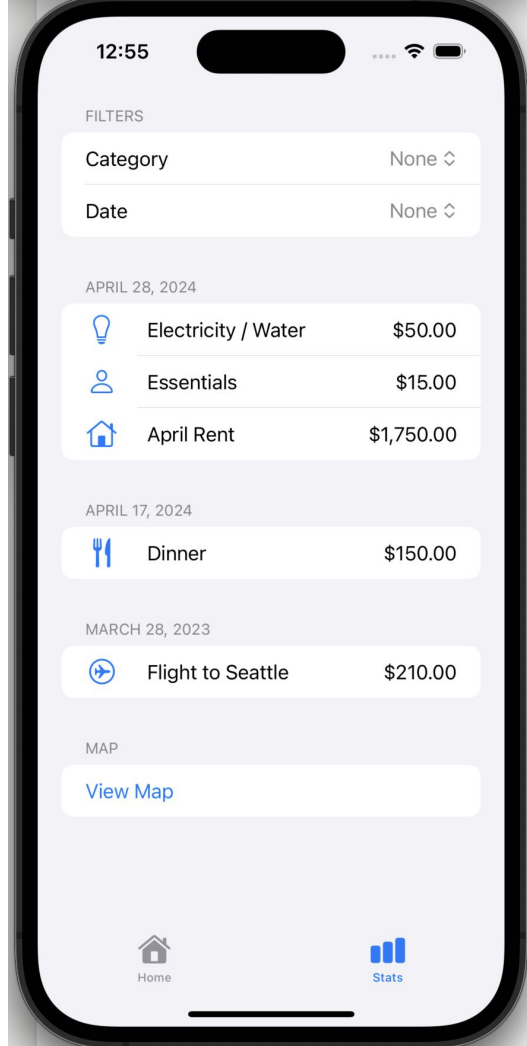
Camera View

- VisionKit used for live text data scanning
- DataDetection used to recognize related data from the text scanned
 - Currency/Price
- NSDataDetector
 - Date
 - Address
- Fills out the Expense Form on save click



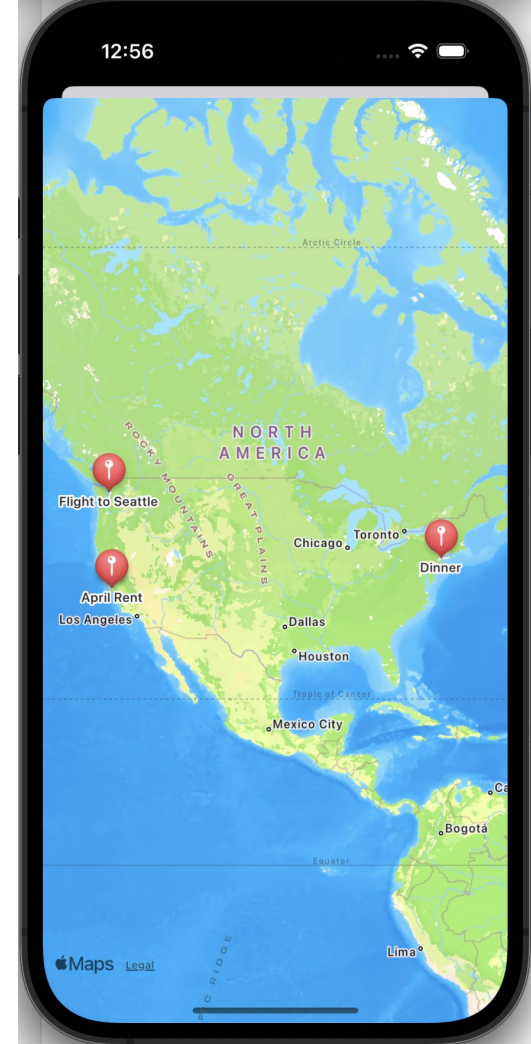
Expense Statistics View

- Filter Pickers to filter by either category or time range
- Expenses grouped by date
- Map Button to view a map of locations for all expenses that have a location



Map View

- Shows pins for Expense locations



Final Product Demo

