OpeninApp IOS Assignment

Project Overview

The project aims to create a dashboard that displays various metrics and links, including a greeting message, an overview chart, statistics cards, a tabbed view for top and recent links, and interaction buttons. The layout adheres to the Figma design provided in the link: [Figma Design](#).

Implementation Steps

1. **Setting Up the Project**:

   - Created a new SwiftUI project in Xcode.
   - Added necessary dependencies, including the Charts framework, to render the overview chart.

2. **Network Management**:

   - Implemented a NetworkManager class to handle API calls and data fetching.
   - Utilized the Combine framework to manage state changes and update the UI accordingly.
   - Ensured secure API access using the provided bearer token.

3. **Dashboard Structure**:

   - Designed the main DashboardView to include a header, greeting message, overview chart, statistics cards, and a custom tab bar.
   - Utilized a ScrollView to ensure the content is scrollable.

4. **Modular Components**:

   - Created modular components for different parts of the dashboard to ensure maintainability and readability:

     - ChartView: Displays the overview chart using the Charts framework.
     - StatCard: Shows individual statistics cards for metrics like today's clicks, top location, and top source.
     - LinksTabView: Manages the tab view for top and recent links, including a search bar.

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- LinksListView: Displays a list of links in a scrollable view.

- LinkRow: Defines the structure for individual link items.

- TabBarView: Custom tab bar at the bottom of the screen.

5. **Design Adherence**:

- Carefully followed the Figma design to ensure the layout, colors, and spacing match the provided prototype.

- Ensured that all elements are responsive and adapt to different screen sizes.

6. **Testing and Validation**:

- Tested the application on various iOS devices to ensure consistent behavior and appearance.

- Verified that the scroll functionality works as expected and that the content dynamically adjusts based on the data fetched from the API.

Final Deliverables

- The complete Xcode project with the implemented dashboard.

- Modular Swift files for each component, ensuring maintainability and ease of updates.

- Adherence to the design specifications provided in the Figma link.