

Project Proposal: GitPulse

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April 11, 2025

Overview

GitPulse is a mobile application designed to help developers stay informed about trending projects on GitHub in real time. By aggregating and analyzing data from GitHub, the app allows users to discover popular repositories, track project activity, and follow active contributors. GitPulse aims to support developers in staying up to date with emerging tools and technologies relevant to their interests.

Objectives

- Develop a cross-platform mobile app using **React Native**.
- Integrate with the **GitHub API** to fetch and filter trending repositories.
- Provide features such as bookmarks, analytics, and contributor tracking.
- Implement authentication with **GitHub OAuth** using Supabase.
- Enable notifications for new and rising trends.

Technologies Layout

| Purpose | Technology |
|----------------------|-------------------------|
| Mobile App Framework | React Native / Expo |
| Backend and Auth | Supabase + GitHub OAuth |
| External API | GitHub REST API |
| Data Storage | Supabase Database |
| Notifications | Expo Push Notifications |

Key Features

- Discover trending repositories by language or technology.
- View activity metrics such as stars, forks, and commits.
- Follow active contributors of popular repositories.
- Save favorites using a personalized bookmark system.
- Share discoveries via mobile sharing options.
- Receive push notifications for emerging repository trends.