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Hacker News Android Client

Description

A simple and modern Material Design influenced Hacker News reader Android app. Read, view comments, bookmark and share stories from the hacker news feed!

Intended User

Target audiences are developers and people who are interested in tech news.

Features

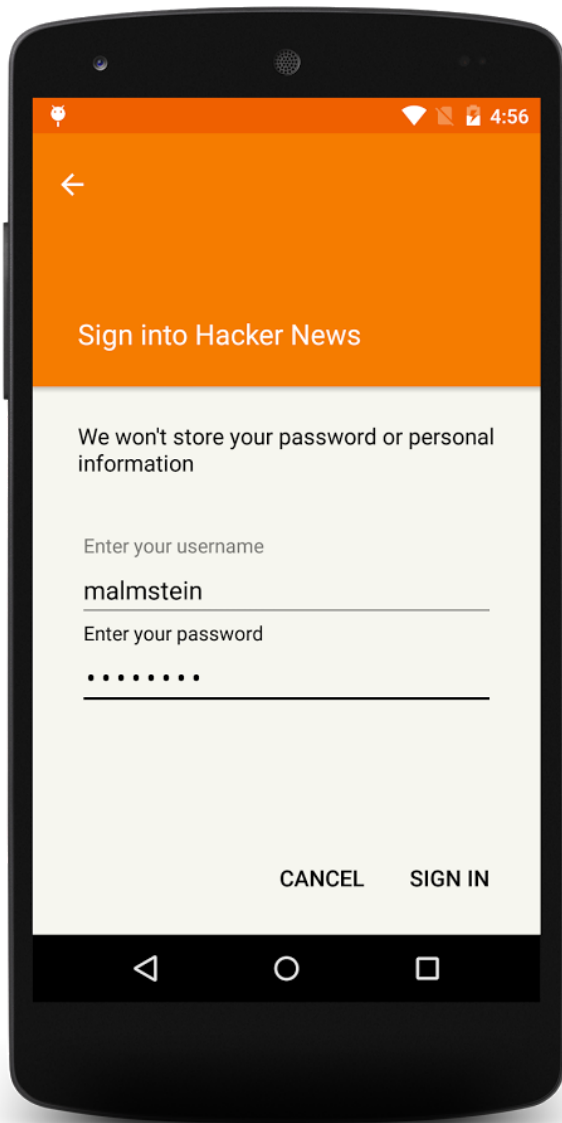
List the main features of your app. For example:

- Top Stories
- New Stories
- Best Stories

- Show HN
- Ask HN
- Jobs
- Bookmark all your favourite stories from Hacker News and keep them as long as you want!
- Login functionality: This app does not store your credentials but the cookie needed to authenticate with the service. If the cookie expires you'll need to login again.
- Vote stories
- Reply to comments
- App widget which displays top news.

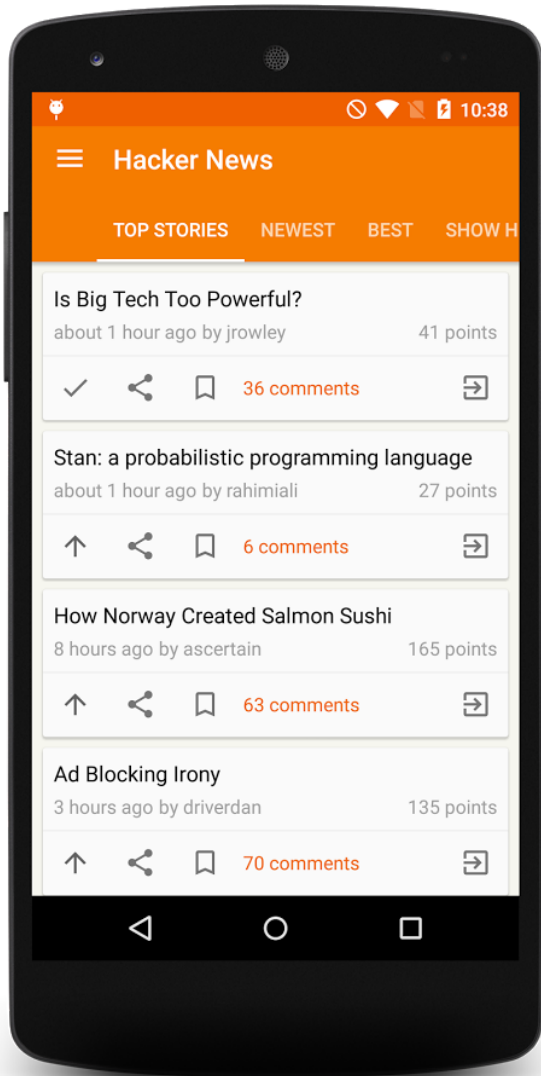
User Interface Mocks

Login Screen



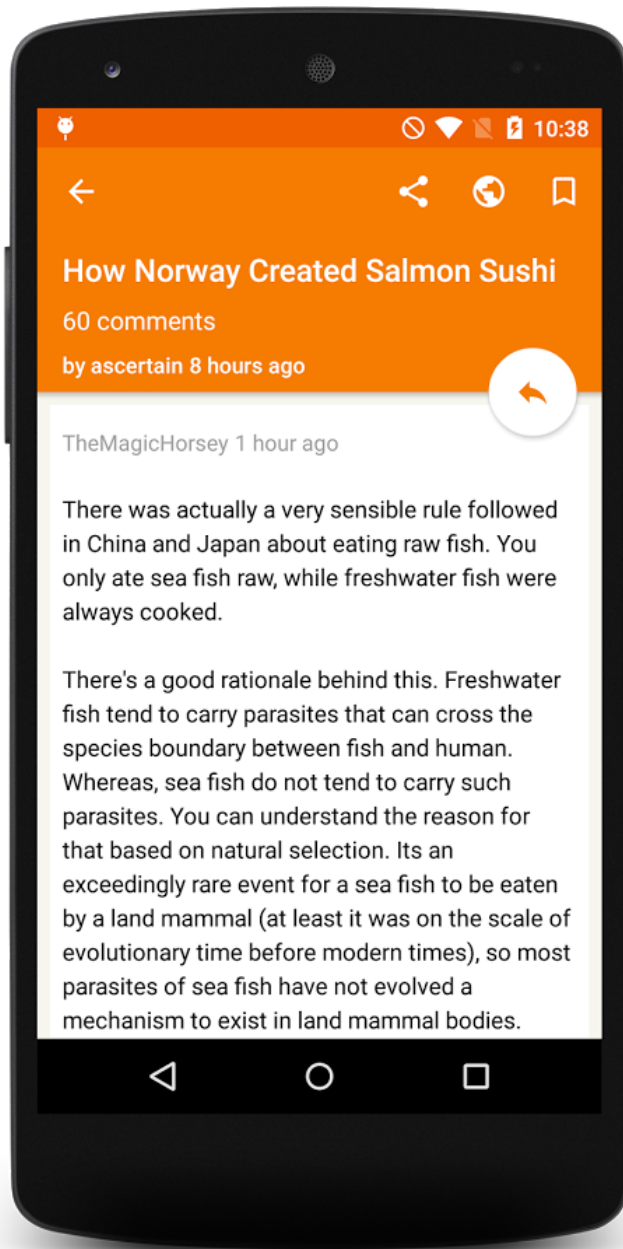
Login screen, login using hackernews api.

Home Screen with Tab ViewPager



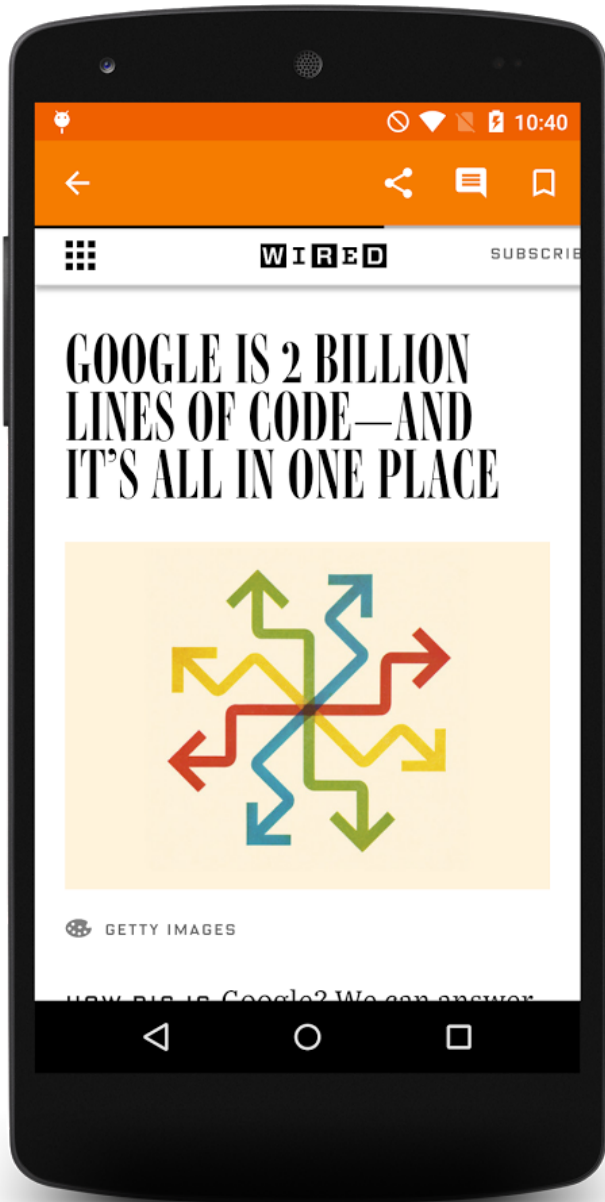
HackerNew Home Page with various categories News.

News Description



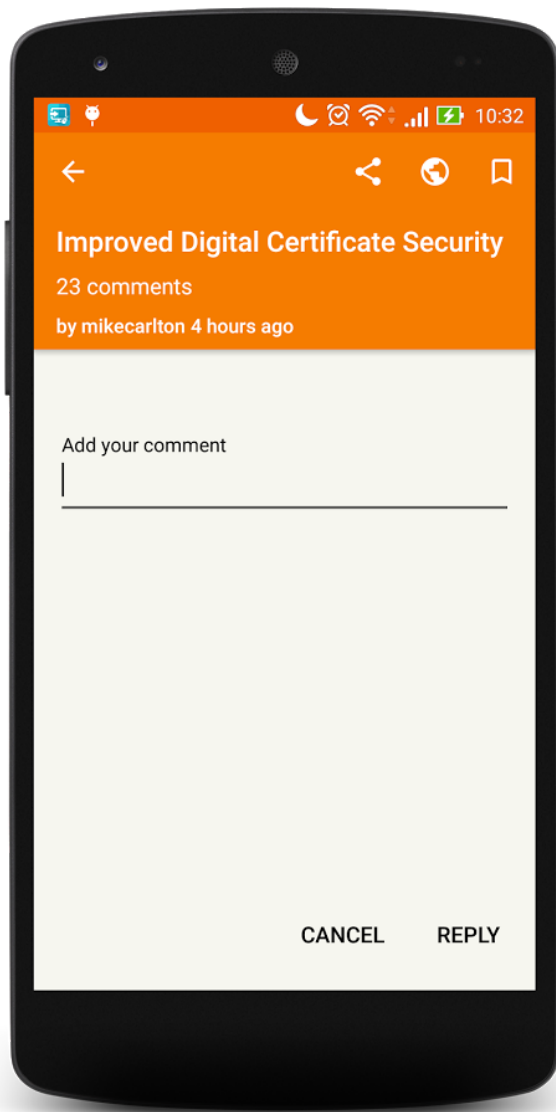
News description with share and open original article in webview action, also bookmark option

Open WebView to View Original Article



Open Article in Webview

Comments Screen



Comments screen

Key Considerations

How will your app handle data persistence?

Hacker News Android Application will be using Android Databinding thorough out. So I will using MVVM architecture to build the whole app.

Describe any corner cases in the UX.

User can swipe left or right in the home screen to check the next news category.

Describe any libraries you'll be using and share your reasoning for including them.

OkHttp: HTTP is the way modern applications network. It's how we exchange data & media. Doing HTTP efficiently makes your stuff load faster and saves bandwidth.

SimpleChromeCustomTabs: It provides easy integration of Chrome Custom Tabs into your project. Just connect it to your activity, and navigate to the external website styling your tab as you wish. Moreover with Custom Tabs the navigation can be nearly instantaneous!

Retrofit: A type-safe HTTP client for Android and Java

Describe how you will implement Google Play Services.

Hacker News will be using google play services by Firebase for Crash logging, Analytics Logging to track various events and Attributes

Next Steps: Required Tasks

Task 1: Project Setup

Creating android studio project setup boilerplate for the whole App.

- HackerNews API
- Creating a project in the Developer's Console
- Enabling the APIs for google login and any other APIs
- Writing the project ID for inclusion in the Project.

Task 2: Implement UI for Each Activity and Fragment

List of tasks.

- Building UI for MainActivity
- Building UI for LoginActivity
- Building UI for CommentsActivity
- Building UI for DetailsActivity
- Building UI for custom components

Task 3: Core Features of the App

List of tasks.

- Implement Login
- Implement HomeActivity
- Implement NewsDetailActivity
- Create Adapter for Post Item.
- Create Adapter for Comment Item.
- Implement Bookmark feature
- Use a content provider + loader to access locally stored data.

Task 4: Implement the Networking Code

List of tasks.

- Create POJOs related to response and request
- Send Request API
- Handle API Failure Cases
- Show various dialogs and progress bars.

Task 5: Refine

List of tasks.

- Write Unit tests.
- Write Integration tests.