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Github Analytics

Description

The non-official GitHub mobile app helps you monitor starts and visitors of your public repositories more easily. With this app, you can:

1) Notification about new followers, stars, forks and pull requests
2) Notifications when your repository is in Trending
3) Reports about your repository views or downloads and other helpful information

Intended User

Developers, which use GitHub

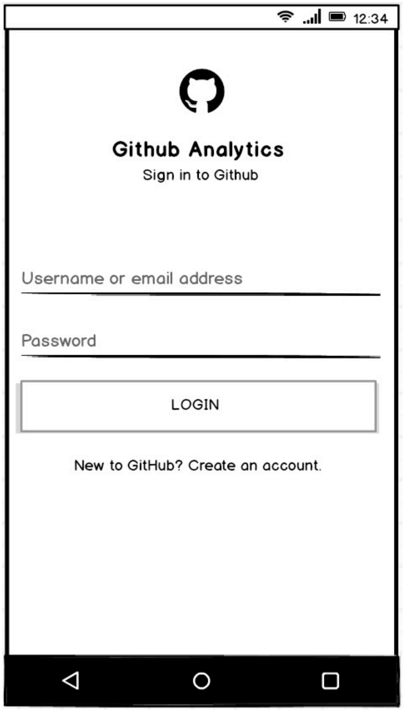
Features

List the main features of your app:

- Traffic for your public repositories
- Notifications about new followers and stars
- Notification when your repository is Trending in open source
- Explore trending repositories

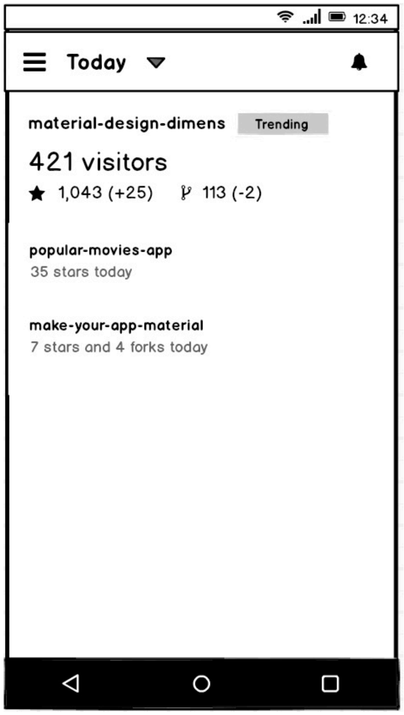
User Interface Mocks

Screen 1



Users have to pass authorization to use the app with Github credentials. In case an user is not registered yet, we will redirect it to GitHub.com.

Screen 2



12:34

Today

material-design-dimens Trending

421 visitors

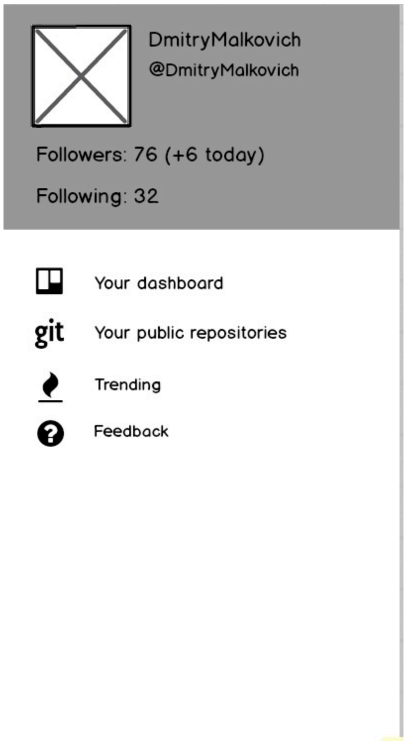
★ 1,043 (+25) 113 (-2)

popular-movies-app
35 stars today

make-your-app-material
7 stars and 4 forks today

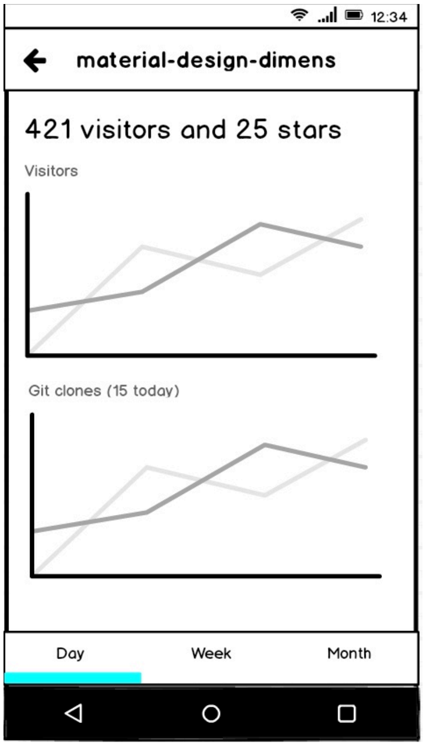
Overview (dashboard) about your most popular repositories number of visitors, stars and forks. Badge “Trending”, if your repository is trending in open source. You can change period via spinner in the toolbar (today, this week and this month).

Screen 3



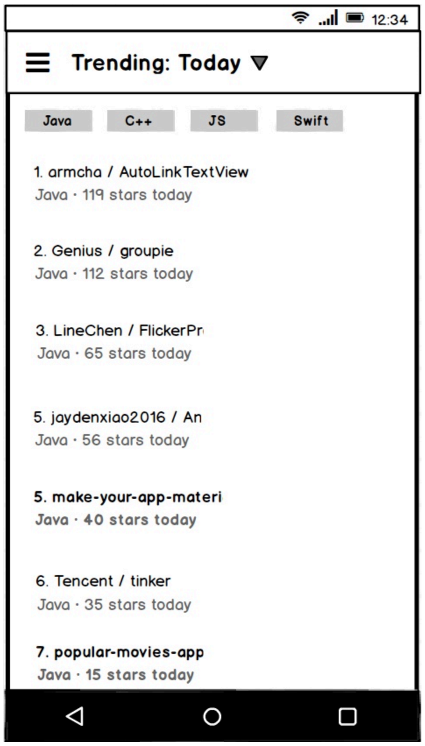
Navigation drawer for the screen 2. You can switch between basic information about your repositories, about trending repositories and go to dashboard screen. Also you can see some information about you profile like photo and followers. Additionally, we allow users to send feedback using android built-in mechanism.

Screen 4



You can see traffic for your repository here, more exactly visitors, clones, views and referring sites.

Screen 5



1. armcha / AutoLinkTextView
Java · 119 stars today

2. Genius / groupie
Java · 112 stars today

3. LineChen / FlickerPr
Java · 65 stars today

5. jaydenxiao2016 / An
Java · 56 stars today

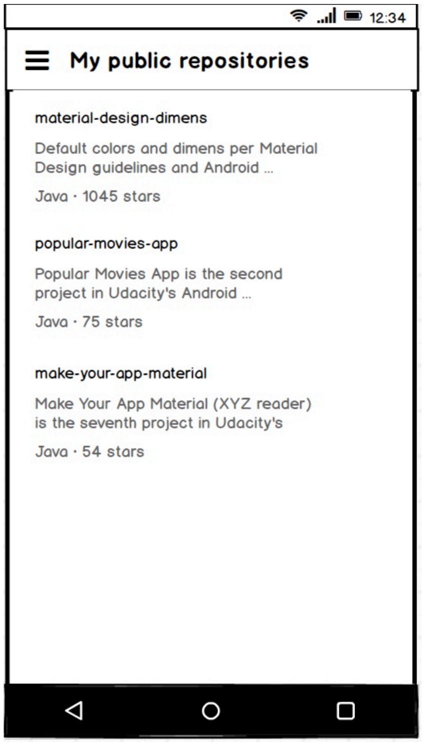
5. make-your-app-materi
Java · 40 stars today

6. Tencent / tinker
Java · 35 stars today

7. popular-movies-app
Java · 15 stars today

See what the GitHub community is most excited about. Your repositories will be highlighted. You can change language and time period.

Screen 6



material-design-dimens

Default colors and dimens per Material Design guidelines and Android ...

Java · 1045 stars

popular-movies-app

Popular Movies App is the second project in Udacity's Android ...

Java · 75 stars

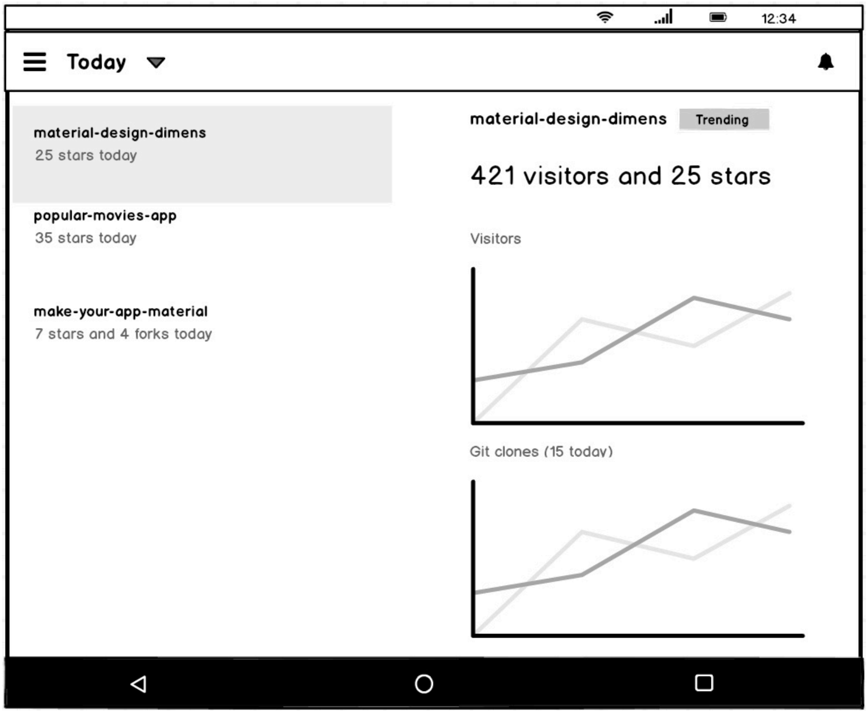
make-your-app-material

Make Your App Material (XYZ reader) is the seventh project in Udacity's

Java · 54 stars

Just list of your public repositories with description and number of stars.

Screen 7 (Screen 2 on Tablet)



material-design-dimens

25 stars today

popular-movies-app

35 stars today

make-your-app-material

7 stars and 4 forks today

material-design-dimens Trending

421 visitors and 25 stars

Key Considerations

How will your app handle data persistence?

Content provider will be created and all data from GitHub Api will be saved to db to have ability to see something in offline.

Describe any corner cases in the UX.

Navigation is straight forward we have different lists of repositories with some information and details screen. Detail are only for user's repositories.

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

Glide to handle the loading and caching of images.
MPAndroidChart to create charts.
Crashlytics for crash reporting
Retrofit for network operations.

Describe how you will implement Google Play Services.

Google Analytics API will be used to see users behaviour in the app, it will help to improve it.
Admob for ads.

Task 1: Project Setup

- Connect required libraries
- Add API key for using Google Analytics API
- Add Crashlytics

Task 2: Implement UI for Each Activity and Fragment

- Use MVP-ContentProviders pattern
- Build UI for login screen
- Build UI for dashboard
- Build UI for trending
- Build UI for my repositories
- Build UI for repository details
- Build UI for tablets
- Follow material design guideline

Task 3: Github Auth

- Implement authorization to Github
- Implement error handling

Task 4: Content Provider and Database

- Create SyncAdapter to fetch needed data via Github API
- Save data to database via content provider
- Use loaders to load data from db for showing

Task 5: Widget

- Create widget, which will show information about your the most popular repository

Task 6: Google analytics and Admob

- Use google analytics to analyze users behaviour
- Add ads to detail screen

Task 7: Tests

- Write some UI tests and unit tests
- Test the app on different devices

Task 8: Google Play

- Create app logo and screenshots for google play page
- Fill descriptions etc.
- Publish app.