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Knowledge Quizzes

Description

Daily quizzes on different topics to increase the overall general knowledge.

Intended User

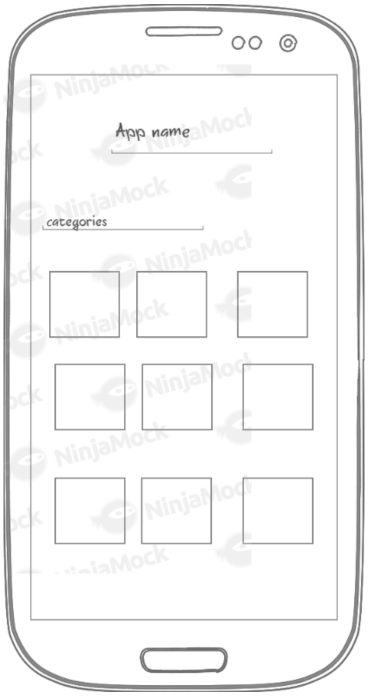
All users.

Features

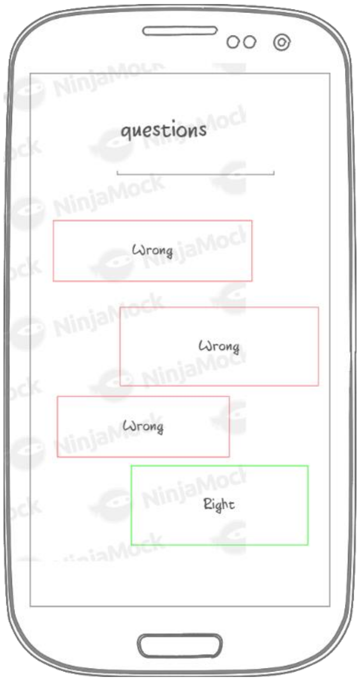
- ✓ Many quizzes on each subject.
- ✓ Facts displayed each day on the app widgets.
- ✓ Share those facts on Facebook.
- ✓ Display quizzes score.
- ✓ New levels.

User Interface Mocks

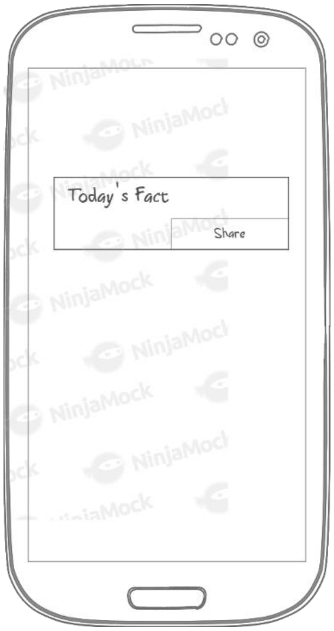
Screen 1



Screen 2



Screen 3 (widget)



Key Considerations

1. App is written solely in the Java Programming Language
2. App keeps all strings in a strings.xml file and enables RTL layout switching on all layouts.
3. App utilizes stable release versions of all libraries, Gradle, and Android Studio. (butterknife:10.1.0 & facebook-share:4.42.0 & firebase-jobdispatcher:0.8.6' & firebase:16.0.8)
4. App provides a widget to provide daily facts at home screen.
5. App uses AsynkTask to get data from opentdb API.
6. App includes support for accessibility: All images have content description and sounds have visual effect.

How will your app handle data persistence?

Using Firebase realtime database to save facts data.

Describe any edge or corner cases in the UX.

1. If user click back button=>cancel asynctask or any background requests.
2. If there is no internet connection display message.

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

- butterKnife: to boost the process of fetching layout elements instead of calling findViewById every time

- facebook-share: using share feature to share data on facebook
- firebase-jobdispatcher: To schedule updating data every day
- firebase: uses for adds, database.

Describe how you will implement Google Play Services or other external services.

Firebase admob.
Firebase cloud storage to store the daily facts.
FireBase appIndexing.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and break them down into tangible technical tasks that you can complete one at a time until you have a finished app.

Task 1: Project Setup

- Configure libraries
- Setup the firebase account.
- Link the the app with firebase.
- Get the google play service json and add it to app directory.
- Insert data to firebase realtime database .

Task 2: Implement UI for Each Activity and Fragment

List the subtasks. For example:

- Build UI for MainActivity
- Build UI for detail activity/fragment

Task 3: Get data Api data

- Get data from opentdb API.
- Attach data to UI.

Task 4: Handling widget

- Create widget UI.
- Create suitable service to get data from firebase every day.
- Create a firebase jobDispatcher to get date from firebase database every day and display it on widget.

Task 5: Get data from firebase

- Getfacts data from firebase.
- Attach data to widget.

Task 6: Facebook sdk

- Create a app on facebook developer site.
- Get app id and connect it with app.
- Add sharing functionality to widget.