CS 408 Team 10

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Statfinder Instructions

About the App
Statfinder is a mobile application created for Android devices with a minimum API level of 16 and targeted for 23. The application was created with Java using Android Studio which uses IntelliJ. Our app also utilizes the Firebase API as an online server and database as well as the Facebook API to handle user login and account info.

It's primary purpose is to allow users to answer questions created by our team and a user's community to see how their answer compares with past results. Questions are sorted by their assigned type (Games, Entertainment, Sports, etc.) and can be filtered by those same categories in the user's settings. A user can also create questions of their own and share them with their local community. Questions can be flagged by users allowing for the removal of unpopular or otherwise unaccepted questions according to a community.

Activity Walkthrough

Login Activity
Upon using the application for the first time the user will see the login page and have the option to access the app by logging in with their Facebook account info. The user will not be able to access the app without a Facebook account.

Main Activity
The Main Activity serves as the menu of the application allowing for quick navigation to all other parts of the app. Two of the three buttons on the center of the page will generate previews for the most popular question and a random question. Both of them will be a question the user has not answered, skipped, or reported before. The third button on the page will be the option to create your own question if the user is inclined. On the top right of the Main Activity there will be a magnifying glass that will allow the user to search through question based on keywords. There will also be three vertically-aligned dots that will allow the user to access the Settings Activity. On the top right there will be a sandwich menu that opens up the Categories Drawer which displays a number of navigation options including all of the question categories. By selecting a question category, the popular question button, or the random question button the user will be

sent to the Question Activity. The Question Activity will then load a question corresponding to the type of question selected by the user.

Categories Drawer
The Categories Drawer allows the user to access the Add Question Activity, user's Question History, About Page, Contact Page, logout button, and the seven possible categories for questions. The drawer serves as a convenient way to organize most of our app's features in an organized manner. For testing purposes two additional buttons have been added: one to clear a user's history and another to reset the values in the database that will also clear every user's history.

Add Question Activity
The user will be able to use this page to create and share questions with other users of the app in their local area (limited by city). There is an eighty character limit for question titles and a fifty character limit for each possible answer response. The user can add up to five possible answers with an additional "Other" option allowing for a maximum of six total responses. Question titles and answers cannot allow for certain special characters/emojis or periods as storing them in the database would be troublesome. A user cannot submit a question with an empty question title and must have a minimum of two possible answers for a question. The user can then select one of the seven available question categories by which the question will be categorized as.

Question Activity
The user will be able to see and interact with question on this page in a number of ways. For every question there will be a home, skip, and flag button. The skip button will add the question to the user's skipped question history and the activity will load a new question. Once in a user's history, a question with the same id will never be seen again. A user can create an identical question but it will have a different id in our database. The home button will take the user back to the Main Activity but it will not add it to any section of the user's history. The flag button will act like the skip button but will modify a value in the question's location in the database signifying that it was flagged. If a question accumulates enough flags, it will be removed from the database. Beyond those three options the user will see the name of the question and however many answer options it came with (no more than six). Upon selecting an answer the question will be added to a user's answered history and the user will be directed to the Results Activity.

Results Activity
Similar to the Question Activity the Results Activity also has a home and next button. The home button functions the same as before and the next button works similarly to the skip button but will not modify the user's history. On this page the user can see the results of question's answers in the form of an interactable pie graph. The data available allows the user to see the local results (based on city) and results worldwide (all answers made for that question). The latter option is only available for moderator created questions.

Question History Activity

The user will be able to see all of the questions they have either answered, skipped, or created in three different categories respectively. The questions will have the most recently answered, skipped, or created question at the top of the list. Tapping on a question in the list will take you back to the question page that it came from and you can see the question's results. The history button you will return to your history and the next button will send you to the next item (going down) in your history list.

Settings Activity

Here the user can filter what categories will be generated by the popular and random buttons and can also control whether they would like to only see moderated questions.

Search Activity

The user can navigate to questions directly by typing in the name of a question. By tapping on the question you will be directed to the question page.