Android Fundamentals Project Self-Evaluation

Instructions: Once you've completed your Final Project, please respond to the questions below. This is a chance for you to briefly explain to the grader your thought-process during development. Once you are done, include this with the source code and accompanying files you are submitting. Then, give yourself a pat on the back for making a great app!

Questions about Required Components

Permissions
Please elaborate on why you chose the permissions in your app.

android.permission.INTERNET is required to access the Subreddit API on Internet

android.permission.AUTHENTICATE_ACCOUNTS is required to create the stub authenticator for the implementation of SyncAdapter

android.permission.READ_SYNC_SETTINGS is required to read the sync settings for the implementation of SyncAdapter

android.permission.WRITE_SYNC_SETTINGS is required to write to the sync settings for the implementation of SyncAdapter

Content Provider
What is the name of your Content Provider, and how is it backed? (For example, Sunshine's Content Provider is named `WeatherProvider` backed by an SQLite database, with two tables: `weather` and `location`.)

CompetitiveHS Subreddit Android App's Content Provider is called MyProvider backed by an SQLite database "competitivehs.db" with two tables.

Table "item" stores the CompetitiveHS Subreddit posts and table "comment" stores the first level comment of all the posts.

What backend does it talk to? (For example, Sunshine talks to the OpenWeatherMap API.)

CompetitiveHS Subreddit Android App talks to the CompetitiveHS Subreddit new posts API at http://www.reddit.com/r/CompetitiveHS/new/.json

If your app uses a SyncAdapter, what is it called? What mechanism is used to actually talk over the network? (For example, Sunshine uses `HttpURLConnection` to talk to the network, but your app may use a third-party library to do the talking.)

CompetitiveHS Subreddit Android App's SyncAdapter is called MySyncAdapter.

It uses HttpURLConnection to talk to the network and parse the JSON response using JsonReader.

What loaders/adapters are used?

MainActivityFragment uses a CursorLoader to load data from the table "item" in the SQLite database

CommentActivityFragment uses a CursorLoader to load data from the table "comment" in the SQLilte database

MainActivityFragment uses a CursorAdapter called MainAdapter to bind the cursor loaded from the CursorLoader (CompetitiveHS Subreddit posts) to the ListView

CommentActivityFragment uses a CursorAdapter called CommentAdapter to bind the cursor loaded from the CursorLoader (first level comments) to the ListView

User/App State

Please elaborate on how/where your app correctly preserves and restores user or app state. (See rubric for examples on this question)

When the app is resumed after the device wakes from sleep/locked state, the app returns the user to the exact state in which it was last used, either with MainActivity or CommentActivity.

If there is no Internet connection, when the app is re-launched from Home or All Apps, the MainActivityFragment will load the data stored in the local database and present almost the same list of CompetitiveHS Subreddit posts as in previous state.

Questions about Optional Components

Answer the questions that are applicable to your final project

Notifications

Please elaborate on how/where you implemented Notifications in your app:

Notifications are implemented in MySyncAdapter.

During onPerformSync the posts fetched from the CompetitiveHS Subreddit new posts API are check with the latest post stored locally in the ContentProvider. If there are new posts, notification will be raised to show the title of the post if there is only one new post or the number of new posts if there are more than one new post.

ShareActionProvider

Please elaborate on how/where you implemented ShareActionProvider:

ShareActionProvider is implemented in CommentActivityFragment.

It shares the permalink URL of a particular post in the CompetitiveHS Subreddit together with the title of the post.

Broadcast Events

Please elaborate on how/where you implemented Broadcast Events:

N/A

Custom Views

Please elaborate on how/where you implemented Custom Views:

N/A