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.

My app, named WiA? (Whats it About?), uses two permissions:
1) android.permission.ACCESS_NETWORK_STATE to monitor for changes in Internet connectivity.
2) android.permission.INTERNET for retrieving data from the Internet.

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`.)

The content provider is the class osg.susan.moviefinder.data.SearchDataProvider, and it is backed by an SQLite database with one table: search.

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

WiA? fetches data from the OMDb API (http://www.omdbapi.com). The API returns 10 search matches, a suitable number for a list view. The app displays some of the data in the main activity view, and the rest in the detailed data view.

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.)

WiA? does not make use of a SyncAdaptor, since there is no data sync happening. This app is a fetch-on-demand app.

The osg.susan.moviefinder.service.SearchDataService is an IntentService, which uses HttpURLConnection to access the network.

What loaders/adapters are used?

The MainFragment and DetailFragment classes both implement LoaderManger, using CursorLoader for data loading.

The SearchAdapter is a CursorAdapter for binding data and list views.

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)**

In standard Android fashion, a Bundle class instance (savedInstanceState), created and updated in MainActivity, is shared as a parameter by many methods, enabling the app to preserve and restore state.

DetailFragment.onActivityCreated is called: when loading detail view, on rotation, returning from a webpage link.

MainFragment.onCreateView is called: when initially coming into the app, on rotation, when returning from detail view after rotation.

MainActivity.onCreate is called: when loading tablet (twoPane view), on tablet rotation.

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:

WiA? does not have a use case for initiating notifications external to app's context.

ShareActionProvider

Please elaborate on how/where you implemented ShareActionProvider:

Within the DetailFragment, ShareActionProvider is used as a social communication. A shared string contains a TV/movie title of interest found by the app user, in the spirit of a recommendation. (See DetailFragment.onCreateOptionsMenu(), and DetailFragment.createShareWiaIntent() methods.)

Broadcast Events

Please elaborate on how/where you implemented Broadcast Events:

A BroadcastReceiver for detecting Internet connectivity is registered in the Manifest.xml. (See SearchBroadcastReceiver.)

Custom Views

Please elaborate on how/where you implemented Custom Views:

WiA? does not need any special views.