## Android Fundamentals Project Self-Evaluation

**Instructions:** Once you’ve completed your Final Project, please evaluate it against the components of the rubric below. For each criteria that you met, put an “X” in either the “Does Not Meet Specifications” or the “Meets Specifications” box. For some criteria, we ask you to provide an explanation of where and how it was implemented in your app. 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!

### Required Components

To “meet specifications”, your app must fulfill all of the criteria listed in this section of the rubric.

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| --- | --- | --- |
| **Criteria** | **Does Not Meet Specifications** | **Meets Specifications** |
| Standard Design |  |  |
| App does not redefine the expected function of a system icon (such as the Back button). |  | X |
| App does not replace a system icon with a completely different icon if it triggers the standard UI behavior. |  | X |
| App does not redefine or misuse Android UI patterns, such that icons or behaviors could be misleading or confusing to users. |  | X |
| **Navigation** |  |  |
| App supports standard system Back button navigation and does not make use of any custom, on-screen "Back button" prompts. |  | X |
| All dialogs are dismissible using the Back button. |  | X |
| Pressing the Home button at any point navigates to the Home screen of the device. |  | X |
| **Permissions** |  |  |
| App requests only the absolute minimum permissions that it needs to support core functionality. |  | X |
| App does not request permissions to access sensitive data or services that can cost the user money, unless related to a core capability of the app. |  | X |
| **Please elaborate on why you chose these permissions:**  Application uses sync adapter component which runs code that transfers data between the network and the device, therefore it need to request permission to access the Internet. Further application uses Google Map API which need to access internet to download map tiles  android.permission.INTERNET  In addition, the application needs to request permission to read and write sync adapter settings, so it can control the sync adapter programmatically from other components in the app.  android.permission.READ\_SYNC\_SETTINGS  android.permission.WRITE\_SYNC\_SETTINGS  Need to request a special permission that allows the app to use the authenticator component  android.permission.AUTHENTICATE\_ACCOUNTS  Allows the Google Map API to check the connection status in order to determine whether data can be downloaded  android.permission.ACCESS\_NETWORK\_STATE  Allows the API to cache map tile data in the device's external storage area  android.permission.WRITE\_EXTERNAL\_STORAGE  Application shows uses current location from Google Map API by accessing GPS in the map to show user how closer to displayed events in the map  com.google.android.providers.gsf.permission.READ\_GSERVICES  android.permission.ACCESS\_COARSE\_LOCATION  android.permission.ACCESS\_FINE\_LOCATION |  |  |
| **Performance and Stability** |  |  |
| App does not crash, force close, freeze, or otherwise function abnormally on any targeted device. |  | X |
| **ContentProvider** |  |  |
| App retrieves and caches data from a server using a ContentProvider. |  | X |
| If it regularly pulls or sends data to/from a web service or API, app updates data in its cache at regular intervals using a SyncAdapter. |  | X |
| **Please elaborate on how/where you implemented a ContentProvider and SyncAdapter:**  Application retrieves earth quake alerts data from USGS public server [as described in http://earthquake.usgs.gov/earthquakes/feed/v1.0/geojson.php] which will be cached using a content provider and a sync adapter. |  |  |
| **User/App State** |  |  |
| App correctly preserves and restores user or app state. |  | X |
| 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. |  | X |
| When the app is relaunched from Home or All Apps, the app restores the app state as closely as possible to the previous state. |  | X |
| **Please elaborate on how/where your app correctly preserves and restores user or app state:**   1. Users settings to access USGS URL will be preserved in the preference store and read back 2. In the list mode users current selection is preserved in the preference store and read back |  |  |

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### Optional Components

To receive “exceeds specifications”, your app must fully implement all of the criteria listed under at least two of the four categories below (e.g. Notifications, ShareActionProvider, Broadcast Events, and Custom Views).

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| --- | --- | --- |
| **Criteria** | **Does Not Exceed Specifications** | **Exceeds Specifications** |
| Notifications |  |  |
| Notifications do not contain advertising or content unrelated to the core function of the app. |  | X |
| Notifications are persistent only if related to ongoing events (such as music playback or a phone call). |  | X |
| Multiple notifications are stacked into a single notification object, where possible. |  | X |
| App uses notifications only to indicate a context change relating to the user personally (such as an incoming message). |  | X |
| App uses notifications only to expose information/controls relating to an ongoing event (such as music playback or a phone call). |  | X |
| **Please elaborate on how/where you implemented Notifications in your app:**  User will be periodically ( once a day ) notified of most significant earthquake alert using constant notification ID. |  |  |
| ShareActionProvider |  |  |
| Uses ShareActionProvider to share content with an outside application. |  | X |
| Makes use of Intent Extras to send rich content. |  | X |
| **Please elaborate on how/where you implemented ShareActionProvider:**  In the detail view user has the option to share the earth quake currently showing in the view by selecting share action provider button |  |  |
| Broadcast Events |  |  |
| App intercepts broadcast events. | X |  |
| App responds to Broadcast events in a meaningful way. | X |  |
| **Please elaborate on how/where you implemented Broadcast Events:** |  |  |
| **Custom Views** |  |  |
| App creates and uses a custom View. |  | X |
| App uses a novel View that couldn’t sufficiently be satisfied by the core Views in Android. |  | X |
| **Please elaborate on how/where you implemented Custom Views:**  To show the earth quake significance and alert level (two properties available and defined defined by USGS) app uses custom view derived from IconView class , which draws its background circle colour to be one of Black, Green, Yellow, Orange and Red depending on how significant the event is ( Red being most significant and Black means value is not defined) and which select icon resource depending on the alert level where icon is in the same colour of the alert level defined by USGS (Black means alert level is not defined for that event). |  |  |