

CS 638, Android Assignment

Android Programming Assignment: Designing a News Reader

Object: Designing and implementing an Android application that provides news information from an RSS feed.

Assignment details:-

1. The android application should take an RSS feed URL as input, display the headlines from the RSS as a list and display the details of the news upon clicking the news headline.
2. The main activity should allow a user to input the URL of an RSS feed (e.g., <http://rss.news.yahoo.com/rss/topstories>) and list the headlines from the RSS feed in a new activity when the user clicks the button "Get Feeds!" on the main activity.
3. When the user selects a headline from the list of headlines in the second activity (by pressing the headline), the application should start another activity that shows the description corresponding to the headline along with the images, if any, that are present in the description
4. Provide a menu to the user to exit the application gracefully.

Bonus:

1. Implement a functionality that also reads out the headline from the list that is selected by the user. (Hint: TTS)

Guidelines:-

1. The application should be implemented using 3 activities:-
 - a. Activity for taking user input.
 - b. Listing the news headlines.
 - c. Displaying the details of a new item.
2. Use any android SDK version $\geq$ Android 2.0
3. Comment your application code properly.
4. Test the application properly using an emulator or phone for handling possible user interactions.
5. Feel free to use the available online resources.
6. Use logging for debugging the application.

7. Include a README.txt file in your project containing student name/ID and brief description of the code.

Be careful about:-

1. Android Permissions
2. Monitoring error messages in logs.
3. Handling exceptions in the application code.

Resources:-

1. RSSParser.java: A class that takes an RSS URL as input, parses the contents and stores it in a data structure.

Deadline: February 20, 2012 (Monday) by 5pm. Submission instructions will be announced separately.