



## PROJECT SPECIFICATION

**News App****Layout**

CRITERIA	MEETS SPECIFICATIONS
Main Screen	App contains a main screen which displays multiple news stories
List Item Contents	<p>Each list item on the main screen displays relevant text and information about the story.</p> <p>The title of the article and the name of the section that it belongs to are required field.</p> <p>If available, author name and date published should be included. Please note not all responses will contain these pieces of data, but it is required to include them if they are present.</p> <p>Images are not required.</p>

CRITERIA	MEETS SPECIFICATIONS
Layout Best Practices	<p>The code adheres to all of the following best practices:</p> <ul style="list-style-type: none"><li>• Text sizes are defined in sp</li><li>• Lengths are defined in dp</li><li>• Padding and margin is used appropriately, such that the views are not crammed up against each other.</li></ul>

### Functionality

CRITERIA	MEETS SPECIFICATIONS
Main Screen Updates	Stories shown on the main screen update properly whenever new news data is fetched from the API.
Errors	The code runs without errors.
Story Intents	Clicking on a story uses an intent to open the story in the user's browser.
API Query	App queries the content.guardianapis.com api to fetch news stories related to the topic chosen by the student, using either the 'test' api key or the student's key.
JSON Parsing	The JSON response is parsed correctly, and relevant information is stored in the app.

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No Data Message	When there is no data to display, the app shows a default TextView that informs the user.
Response Validation	The app checks whether the device is connected to the internet and responds appropriately. The result of the request is validated to account for a bad server response or lack of server response.
Use of Loaders	Networking operations are done using a Loader rather than an AsyncTask.
External Libraries and Packages	The intent of this project is to give you practice writing raw Java code using the necessary classes provided by the Android framework; therefore, the use of external libraries for the core functionality will not be permitted to complete this project.
Use of Uri Builder	The student must use a Uri builder to construct the URL string to pass into the Loader constructor.

### Code Readability

CRITERIA	MEETS SPECIFICATIONS
Readability	Code is easily readable such that a fellow programmer can understand the purpose of the app.

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Naming Conventions	All variables, methods, and resource IDs are descriptively named such that another developer reading the code can easily understand their function.
Formatting	The code is properly formatted i.e. there are no unnecessary blank lines; there are no unused variables or methods; there is no commented out code.