BBC News Reader

Project Overview

The user can download the latest news headlines from:

http://feeds.bbci.co.uk/news/world/us and canada/rss.xml

Your application should show the titles in a listview. When the user selects an item, it shows the details about the news article. You should show the title, description, and date of the article, as well as a link to the website for the article. Clicking on the link should load the Android web browser to that page.

The user can save articles to a favourites list for later viewing. The user can also delete articles from the favourites list.

Important Links

Project Video:

 $\frac{https://github.com/daoudab/Androidbbc/blob/master/WhatsApp\%20Video\%202025-01-24\%20at\%20}{10.08.34\%20AM.mp4}$

Project Repository: https://github.com/daoudab/Androidbbc.git

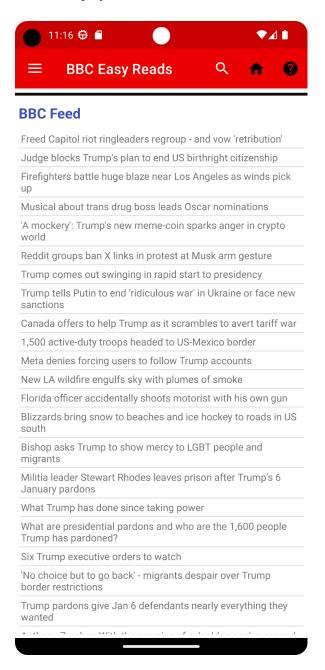




Application Basics

1. Use of ListView

o Display a list of news article titles from the RSS feed.



Selecting an item shows detailed information (title, description, date, and link).



Title:

Bishop asks Trump to show mercy to LGBT people and migrants

Description:

Right Rev. Mariann Edgar Budde made a plea to the president in a sermon that Trump later criticised.

Link

https://www.bbc.com/news/videos/cn4mwe3lk9wo

PubDate:

Tue, 21 Jan 2025 19:47:14 GMT



2. Progress Bar

o Include a progress bar (e.g., during RSS feed download or data parsing).



BBC Feed

3. Button

• Two buttons (Add to Favourites & Remove from Favourites).



Title:

Bishop asks Trump to show mercy to LGBT people and migrants

Description:

Right Rev. Mariann Edgar Budde made a plea to the president in a sermon that Trump later criticised.

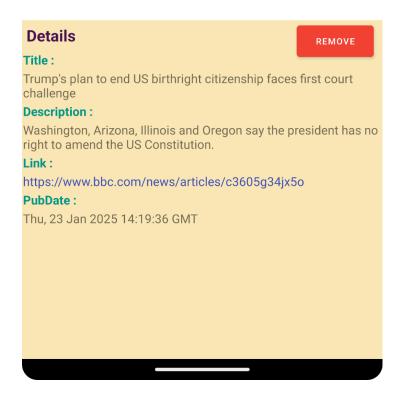
Link

https://www.bbc.com/news/videos/cn4mwe3lk9wo

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Tue, 21 Jan 2025 19:47:14 GMT





4. Edit Text

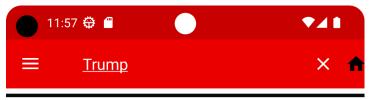
 Include an editable text field with an appropriate input method (Search edit and input).



3T people and migrants

plea to the president in a

nwe3lk9wo



BBC Feed

US government workers told to report DEI efforts or face 'consequences'

Trump urges oil-exporting countries to slash prices

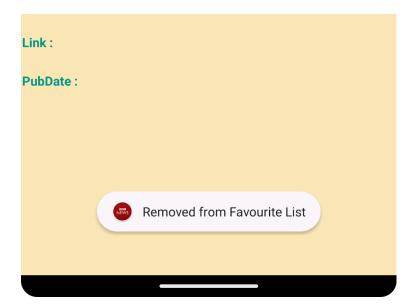
Judge blocks Trump's plan to end US birthright citizenship

Watch Air National Guard tackle Hughes wildfire in LA

Firefighters battle huge blaze near Los Angeles as winds pick

5. Toast Notification

• Implement at least one Toast (e.g., on saving an article to favourites).

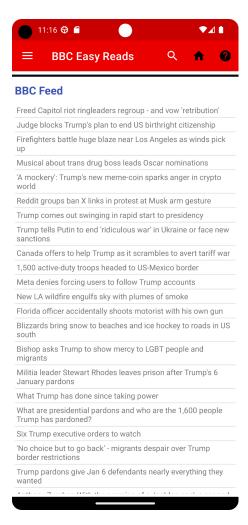


6. Snackbar Notification

• Implement at least one Snackbar (e.g., after deleting an article from favourites).

Activities and Navigation

- 7. Multiple Activities
 - Create at least four activities:
 - Main Activity: Displays the list of articles.



■ Detail Activity: Shows detailed information about a selected article.



Right Rev. Mariann Edgar Budde made a plea to the president in a sermon that Trump later criticised.

Link:

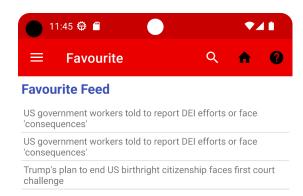
https://www.bbc.com/news/videos/cn4mwe3lk9wo

PubDate

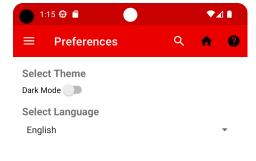
Tue, 21 Jan 2025 19:47:14 GMT

FAVOURITE

■ Favourites Activity: Displays saved articles.

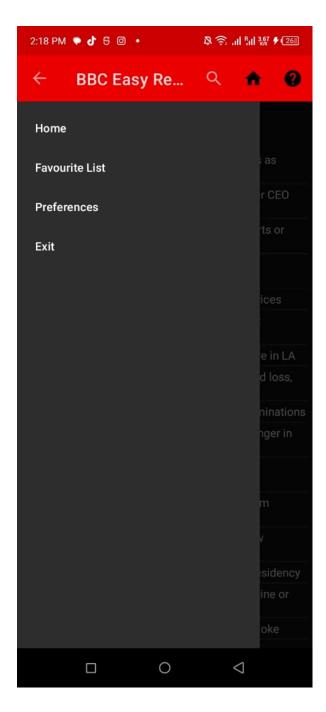


■ Preference Activity.



■ Exit Activity.

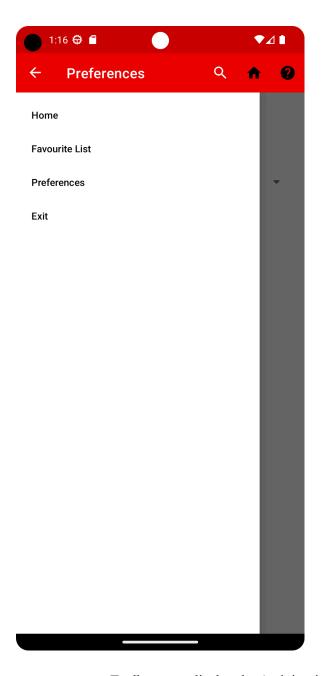
Once clicked closes the app while retaining all data using SQLite and SharedPreferences



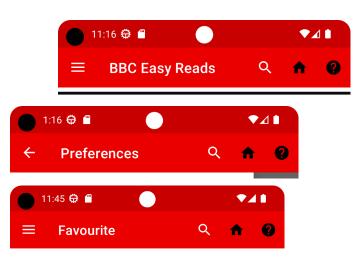
8. Toolbar and NavigationDrawer

o Include a graphical Toolbar and NavigationDrawer for switching between activities.



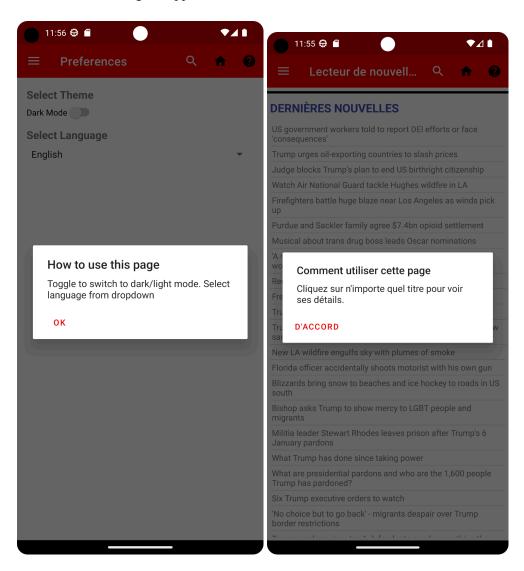


o Toolbar must display the Activity title and version number.



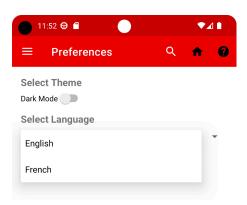
9. Help Menu with AlertDialog

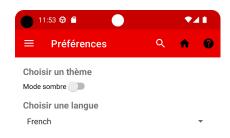
 Add a Help menu in each activity that shows an AlertDialog with instructions for using the app.

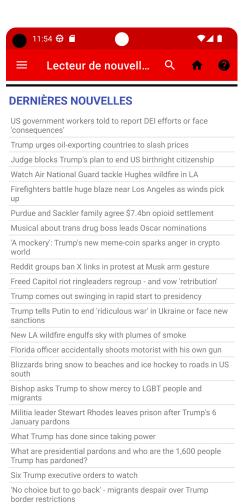


10. Multilingual Support

• Provide support for Canadian French (switching between English and French).



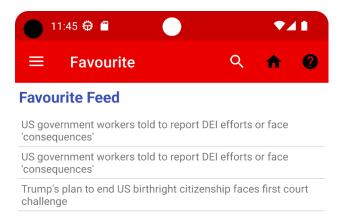




Data Storage

- 11. Persistent Storage with ListView
 - Save articles to a database.

• Ensure saved articles reappear in the ListView upon app relaunch.



12. Add/Delete Functionality

• Enable users to add articles to favourites and delete them from the database.



Title:

US government workers told to report DEI efforts or face 'consequences'

Description:

Government employees received emails threatening "consequences" if they did not report DEI work to the White House.

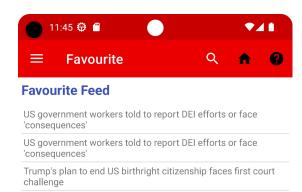
Link:

https://www.bbc.com/news/articles/c78wn5qg3nyo

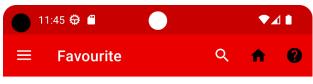
PubDate:

Thu, 23 Jan 2025 19:56:52 GMT

FAVOURITE



Added to Favourite List GO BACK

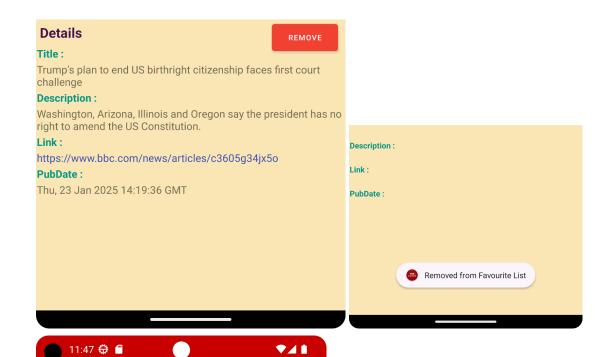


Favourite Feed

US government workers told to report DEI efforts or face 'consequences'

US government workers told to report DEI efforts or face 'consequences'

Trump's plan to end US birthright citizenship faces first court challenge



Favourite Feed

Favourite

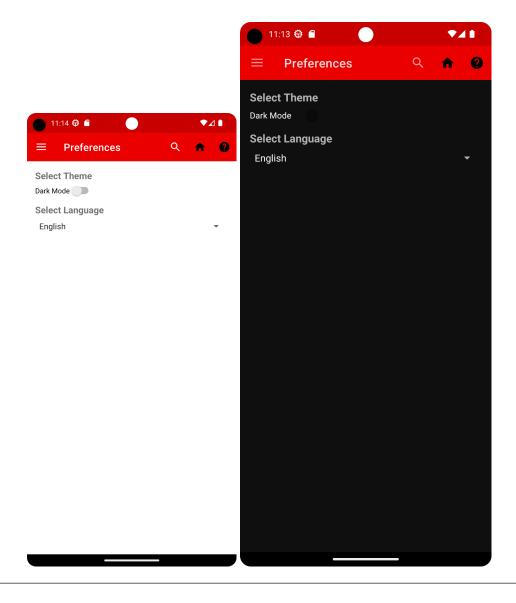
Trump comes out swinging in rapid start to presidency

Q

US government workers told to report DEI efforts or face 'consequences'

13. SharedPreferences

• Use SharedPreferences to save at least one application setting (e.g., theme preference, default language).



Networking

14. AsyncTask for HTTP Requests

 Use AsyncTask to fetch data from the RSS feed (http://feeds.bbci.co.uk/news/world/us and canada/rss.xml).

```
// Start background task to fetch news
  getNews getNews = new getNews();
  getNews.execute( ...params: "https://feeds.bbci.co.uk/news/world/us_and_canada/rss.xml");
}

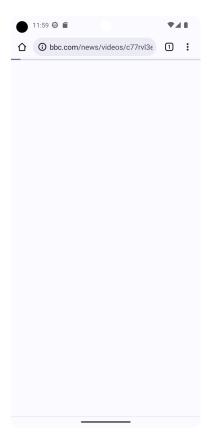
// Assnc task to fetch news data

2 usages
private class getNews extends AsyncTask<String, Integer, ArrayList<newsList>> {
    2 usages
    ArrayList<newsList> newsList = new ArrayList<>();
    1 usage
    ProgressBar progressBar = findViewById(R.id.progressBar);

@Override
protected ArrayList<newsList> doInBackground(String... args) {
    try {
        URL url = new URL(args[0]);
        publishProgress( ...values: 0);
        Thread.sleep( millis: 100);
        publishProgress( ...values: 25);
}
```

15. Open Links in Android Web Browser

o Load the article link in the device's built-in web browser when clicked.



Fragments

16. Fragment Integration

• Use a fragment in at least one activity (display article details in a fragment - used by favourites and newslist to show a news item).



Favourite Feed

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