|  |  |  |
| --- | --- | --- |
| American University of SharjahCollege of Engineering Dept of Computer Science & Engg  P. O. Box 26666  Sharjah, UAE |  | Instructors: Dr. Tamer [Shanableh](javascript:detailw('detail.asp?ID=@00010457')) **Lab Instructor:** Ms. Praveena Kolli  **Office** EB2-126  **Phone**: 971-6-5152352  **e-mail**: [pkolli@aus.edu](mailto:pkolli@aus.edu)  **Semester**: Spring 2023 |

**CMP354L -** [**Mobile Application Development**](https://banner.aus.edu/axp3b21h/owa/bwckschd.p_disp_detail_sched?term_in=201410&crn_in=11136)

**Lab6**

**Exercise 1:**

Design an app for Airbus <https://www.airbus.com/en/rss-feeds> to display the following RSS feeds.

Commercial Aircraft

<https://www.airbus.com/en/rss-all-feeds/15571?fid=29711>

Helicopters

<https://www.airbus.com/en/rss-all-feeds/15581?fid=29716>

Space

<https://www.airbus.com/en/rss-all-feeds/15601?fid=29726>

Home page displays options to choose the RSS feed and respective action listener takes the user to the page where pubDate and title of recent feeds are displayed. Clicking a feed takes the user to other activity that displays title, image, description, and link of the feed.

1. Display pubDate and title of the feed in ItemsActivity.
2. Display Title, image, description and link in ItemActivity.
3. pubDate of the item needs dateIn and dateOut format.
4. Code to download the image in Async task is provided.

Sample screenshots of the app are provided for your reference.

Graphical user interface, application

Description automatically generated

**Text

Description automatically generatedGraphical user interface, text, application, Word

Description automatically generated**

**Note:** Submit Design xml, java codes, screenshots of running app and **APK**.

Code to Download the image

private class DownloadImageTask extends AsyncTask<String, Void, Bitmap> {  
   
 protected Bitmap doInBackground(String... urls)  
 {  
 Bitmap bmp =null;  
 try{  
  
 URL newurl = new URL(urls[0]);  
 bmp = BitmapFactory.*decodeStream*(newurl.openConnection().getInputStream());  
 }catch(Exception e){  
  
 e.printStackTrace();  
 }  
 return bmp;  
 }  
 protected void onPostExecute(Bitmap result) {  
 imageView.setImageBitmap(result);  
 }  
}