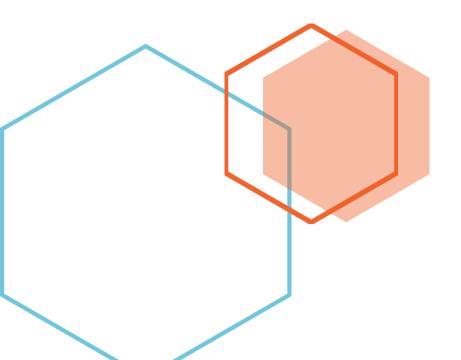


[Compte Rendu]

TP 3: Android

Développement Mobile et Systèmes Muli-Agents

L'Ecole Normale Supérieure de l'Enseignement Technique de Mohammedia (ENSET)





Classe News.java:

```
package ma.enset.tp3.model;

import java.io.Serializable;

public class News implements Serializable {

private String title;

private String publishedAt;

public String getTitle() { return title; }

public void setTitle(String title) { this.title = title; }

public String getUrlToImage() { return urlToImage; }

public void setUrlToImage(String urlToImage) { this.urlToImage = urlToImage; }

public String getPublishedAt() { return publishedAt; }

public void setPublishedAt(String publishedAt) { this.publishedAt = publishedAt; }

public void setPublishedAt(String publishedAt) { this.publishedAt = publishedAt; }

public void setPublishedAt(String publishedAt) { this.publishedAt = publishedAt; }
```

Classe des articles :

```
package ma.enset.tp3.model;

import ...

public class ListNewsResponse {
    private int totalResults;

    @SerializedName("articles")
    private List<News> newsList;

public int getTotalResults() { return totalResults; }

public void setTotalResults(int totalResults) { this.totalResults = totalResults; }

public List<News> getNewsList() { return newsList; }

public void setNewsList(List<News> newsList) { this.newsList = newsList; }
}
```

MainActivity

```
package ma.enset.tp3;
public class MainActivity extends AppCompatActivity {
   @Override
    protected void onCreate(Bundle savedInstanceState) {
        setContentView(R.layout.activity_main);
        ListView listViewNews=findViewById(R.id.listViewNews);
        EditText editTextSearch=findViewById(R.id.editTextSearch);
        EditText editTextSearchDate=findViewById(R.id.editTextSearchDate);
        Button buttonSearch=findViewById(R.id.buttonSearch);
        String api = "cc5c8fd08e4c4c289700eae3f90d84e3";
        List<News> data=new ArrayList<>();
        ListNewsAdapter adapter=new ListNewsAdapter( context: this, R.layout.list_news_item, data);
        listViewNews.setAdapter(adapter);
        Retrofit retrofit=new Retrofit.Builder().baseUrl("https://newsapi.org/v2/")
                .addConverterFactory(GsonConverterFactory.create()).build();
        RestServiceAPI serviceAPI=retrofit.create(RestServiceAPI.class);
```

La recherche par key et date :

Affichage des articles:

```
Runnable thread= new Runnable(){

@Override

public void run() {

    try {

        Log.i(lag: "info",getItem(position).getUrlToImage());

        URL url=new URL(getItem(position).getUrlToImage());

        Bitmap bitmap= BitmapFactory.decodeStream(url.openStream());

        imageView.setImageBitmap(bitmap);

} catch (Exception e) {

        e.printStackTrace();

    }

};

Thread t=new Thread(thread);

t.start();

return listItemView;

}

}
```

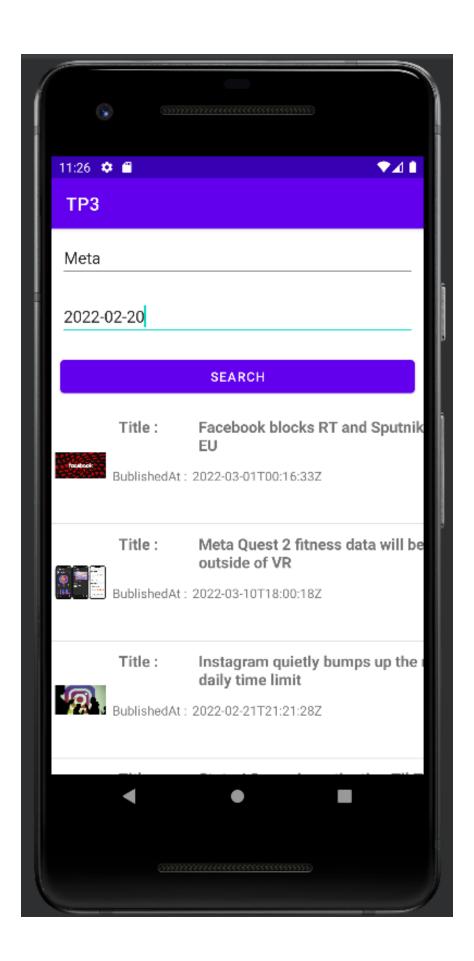
Le format d'URL dans RestServiceAPI:

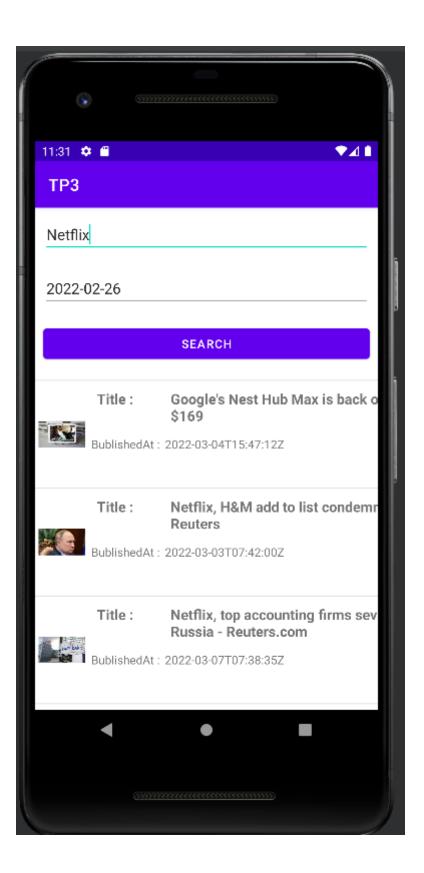
Récupérer afficher les détails de news stockées dans les paramètres de l'Intent. :

NewActivity:

```
Runnable thread= new Runnable(){
    @Override
    public void run() {
        try {
            Log.i( tag: "info", news.getUrlToImage());
            URL url=new URL(news.getUrlToImage());
            Bitmap bitmap= BitmapFactory.decodeStream(url.openStream());
            imageView.setImageBitmap(bitmap);

        } catch (Exception e) {
            e.printStackTrace();
        }
    };
    Thread t=new Thread(thread);
    t.start();
}
```





```
listViewNews.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {
        //Toast.makeText(getApplicationContext(), data.get(i).getLogin(), Toast.LENGTH_SHORT).show();
        Intent intent=new Intent(getApplicationContext(), NewActivity.class);
        intent.putExtra( name: "News", data.get(i));
        startActivity(intent);
}
```



