Mobil Programlama

Hafta 15

SQLite

- Console üzerinde sadece uygulama
  - 1. Adım SqliteDataba nesnesi oluşturmak

```java
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    try {

        SQLiteDatabase myDatabase = this.openOrCreateDatabase("Users", MODE_PRIVATE, null);
```

  - Ilk argüman , veri tabanı adı,
  - Mode_Private
  - null

Tablo eklemek Veri Eklemek

-
```
myDatabase.execSQL("CREATE TABLE IF NOT EXISTS users (name VARCHAR, age INT(3))");

myDatabase.execSQL("INSERT INTO users (name, age) VALUES ('Rob', 34)");
```

```
SQLiteDatabase eventsDB = this.openOrCreateDatabase("Events", MODE_PRIVATE, null);

eventsDB.execSQL("CREATE TABLE IF NOT EXISTS events (event VARCHAR, year INT(4))");
```

```
eventsDB.execSQL("INSERT INTO events (event, year) VALUES ('End Of WW2', 1945)");

eventsDB.execSQL("INSERT INTO events (event, year) VALUES ('Wham split up', 1986)");
```

Veri Listelemek ve Log a yazmak

```java
Cursor c = eventsDB.rawQuery("SELECT * FROM events", null);

int eventIndex = c.getColumnIndex("event");
int yearIndex = c.getColumnIndex("year");

c.moveToFirst();

while (c != null) {

    Log.i("Results - event", c.getString(eventIndex));
    Log.i("Results - year", Integer.toString(c.getInt(yearIndex)));

    c.moveToNext();
}

}
catch (Exception e) {

    e.printStackTrace();

}
```

CRUD işlemleri

*

```
eventsDB.execSQL("DELETE FROM newUsers WHERE id = 1");

Cursor c = eventsDB.rawQuery("SELECT * FROM users WHERE name LIKE '%o%'", null);

Cursor c = eventsDB.rawQuery("SELECT * FROM users WHERE name LIKE '%o%' LIMIT 1", null);

eventsDB.execSQL("DELETE FROM users WHERE name = 'Kirsten' LIMIT 1");

eventsDB.execSQL("UPDATE users SET age = 2 WHERE name = 'Ralphie' LIMIT 1");

eventsDB.execSQL("CREATE TABLE IF NOT EXISTS newUsers (name VARCHAR, age INTEGER(3), id INTEGER PRIMARY KEY)");
```
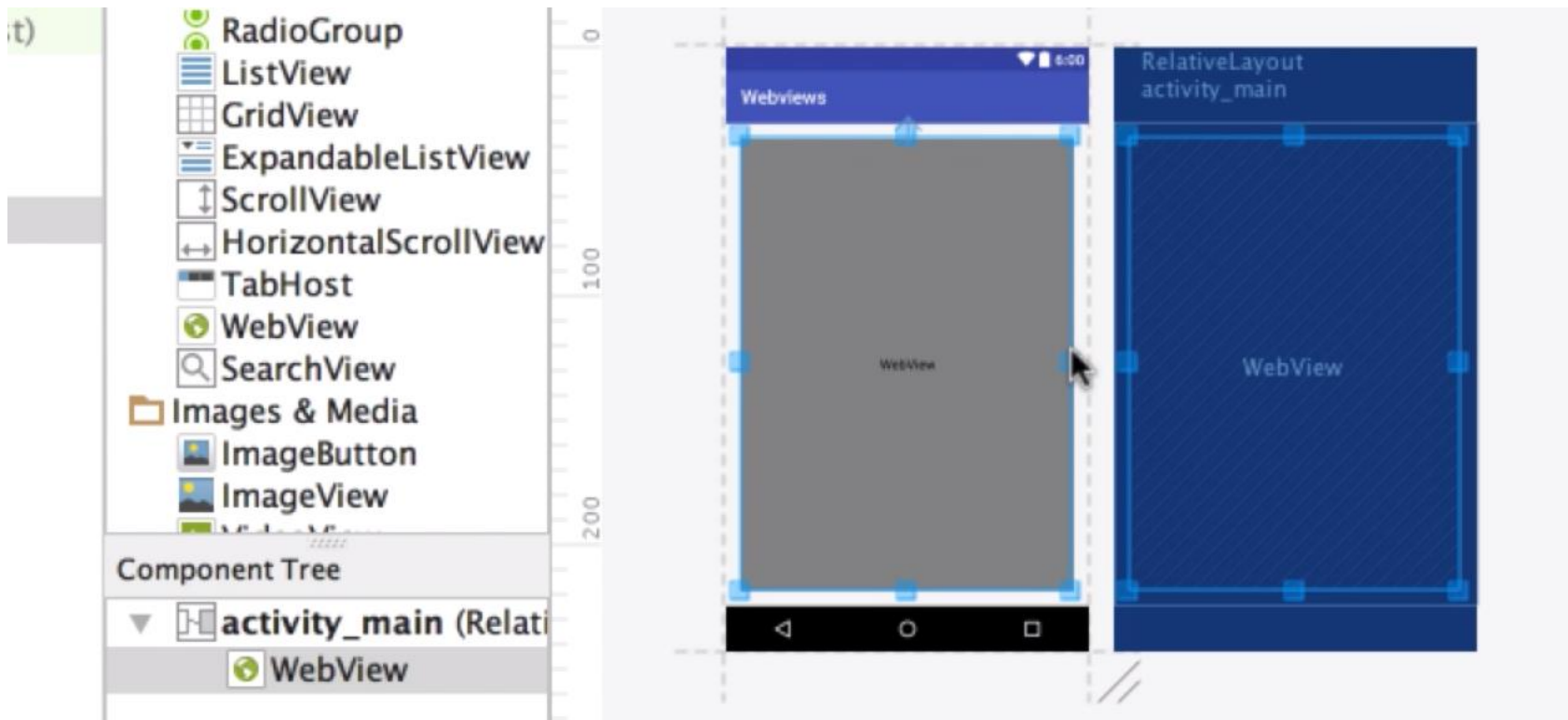
WebView

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Kod

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```java
WebView webView = (WebView) findViewById(R.id.webview);

webView.getSettings().setJavaScriptEnabled(true);

webView.setWebViewClient(new WebViewClient());

//webView.loadUrl("http://www.google.com");

webView.loadData("<html><body><h1>Hi there!</h1><p>This is my website.</p></body></html>", "text/html", "UTF-8");
```
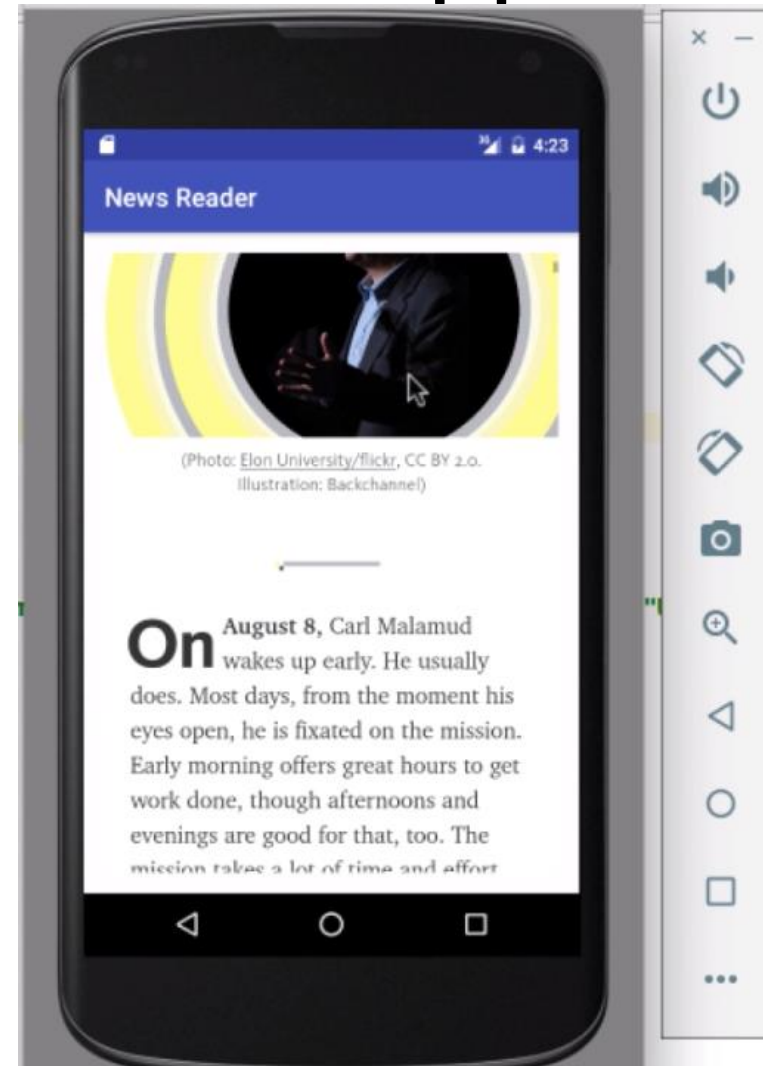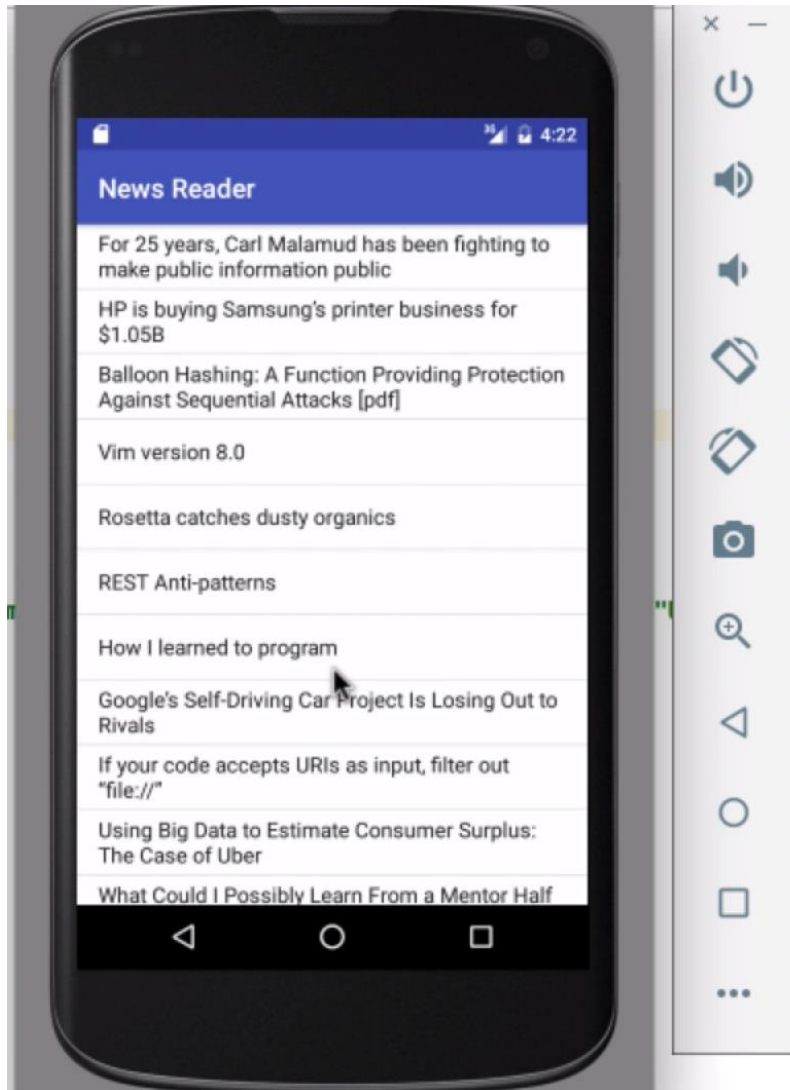
News Offline Reader App

Dr. M. C. Kasapbasi

- Hackernews

- HackerNews API

- Github

- https://github.com/HackerNews/API

Listview Setup

```java
ArrayList<String> titles = new ArrayList<>();

ArrayAdapter arrayAdapter;

@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    ListView listView = (ListView) findViewById(R.id.listView);

    arrayAdapter = new ArrayAdapter(this, android.R.layout.simple_list_item_1, titles);

    listView.setAdapter(arrayAdapter);
```

DOWNLOADİNG CONTENT

- MANİFEST Internet izni ekle

```java
@Override
protected String doInBackground(String... strings) {

    String result = "";
    URL url;
    HttpURLConnection urlConnection = null;

    try {

        url = new URL(strings[0]);

        urlConnection = (HttpURLConnection) url.openConnection();

        InputStream in = urlConnection.getInputStream();

        InputStreamReader reader = new InputStreamReader(in);

        int data = reader.read();

        while (data != -1) {

            char current = (char) data;

            result += current;

            data = reader.read();

        }

        Log.i("URLContent", result);

    } catch (MalformedURLException e) {
        e.printStackTrace();
    } catch (IOException e) {
        e.printStackTrace();
    }
}
```

```java
DownloadTask task = new DownloadTask();

try {

    task.execute("https://hacker-news.firebaseio.com/v0/topstories.json?print=pretty");

} catch (Exception e) {

    e.printStackTrace();

}
```

ID leri anlamlı şekilde okuma

```java
JSONArray jsonArray = new JSONArray(result);

int numberOfItems = 20;
if (jsonArray.length() < 20) {
    numberOfItems = jsonArray.length();
}

articlesDb.execSQL("DELETE FROM articles");

for (int i = 0; i < numberOfItems; i++) {...}
```

```java
for (int i = 0; i < numberOfItems; i++) {

    String articleId = jsonArray.getString(i);

    url = new URL( spec: "https://hacker-news.firebaseio.com/v0/item/" + articleId + ".json?print=pretty");

    urlConnection = (HttpURLConnection) url.openConnection();

    in = urlConnection.getInputStream();

    reader = new InputStreamReader(in);

    data = reader.read();

    String articleInfo = "";

    while (data != -1) {
        char current = (char) data;

        articleInfo += current;
                                    JSONObject jsonObject = new JSONObject(articleInfo);
        data = reader.read();
    }
```

```java
if (!jsonObject.isNull( name: "title") && !jsonObject.isNull( name: "url")) {

    String articleTitle = jsonObject.getString( name: "title");

    String articleURL = jsonObject.getString( name: "url");

    url = new URL(articleURL);

    urlConnection = (HttpURLConnection) url.openConnection();

    in = urlConnection.getInputStream();

    reader = new InputStreamReader(in);

    data = reader.read();

    String articleContent = "";

    while (data != -1) {
        char current = (char) data;

        articleInfo += current;

        data = reader.read();
    }

    Log.i( tag: "articleContent", articleContent);
```

SQLite yazma

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```
Log.i( tag: "articleContent", articleContent);

String sql = "INSERT INTO articles (articleId, title, content) VALUES (?, ?, ?)";

SQLiteStatement statement = articlesDb.compileStatement(sql);

statement.bindString( index: 1, articleId);
statement.bindString( index: 2, articleTitle);
statement.bindString( index: 3, articleContent);

statement.execute();
```

SQLite hazırlama Tıklandığında WebView li aktivite

```java
SQLiteDatabase articlesDb;

articlesDb = this.openOrCreateDatabase( name: "Articles", MODE_PRIVATE, factory: null);

articlesDb.execSQL("CREATE TABLE IF NOT EXISTS articles (id INTEGER PRIMARY KEY, articleId INTEGER, title VARCHAR, content VARCHAR)");
```

WebView webView = (WebView) findViewById(R.id.**webview**);

webView.getSettings().setJavaScriptEnabled(**true**);

webView.setWebViewClient(**new** WebViewClient());

Intent intent = getIntent();

webView.loadData(intent.getStringExtra(**"content"**), **"text/html"**, **"UTF-8"**);

```java
lv.setOnItemClickListener(new AdapterView.OnItemClickListener() {
    @Override
    public void onItemClick(AdapterView<?> adapterView, View view, int i, long l) {

        Intent intent = new Intent(getApplicationContext(), WebviewAc.class);
        intent.putExtra( name: "content", content.get(i));

        startActivity(intent);
    }
});
```