



Mobil Programlama

Hafta 15

SQLite

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

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main);  
  
    try {  
        SQLiteDatabase myDatabase = this.openOrCreateDatabase("Users", MODE_PRIVATE, null);
```

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



Tablo eklemek Veri Ekleme

```
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

```
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);
```

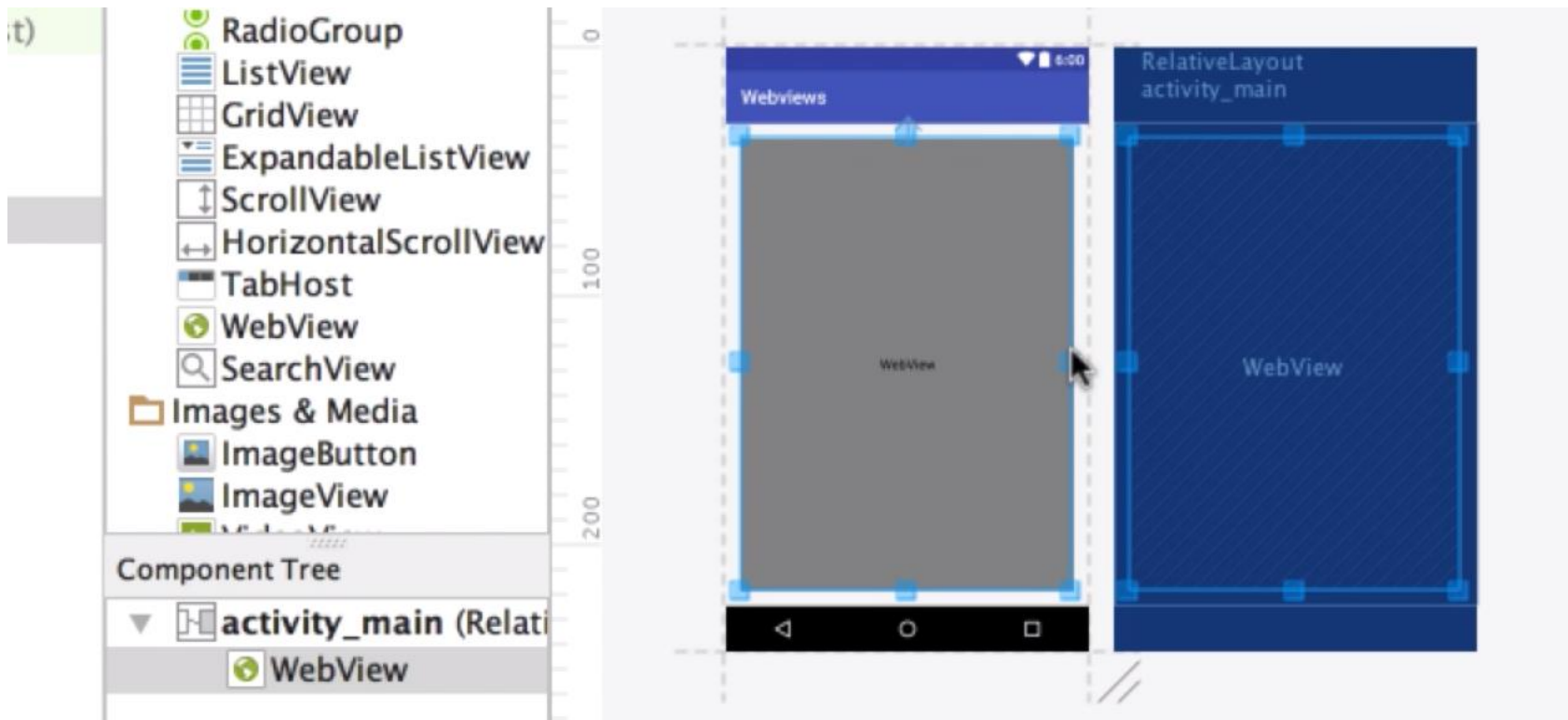
```
Cursor c = eventsDB.rawQuery("SELECT * FROM users WHERE name LIKE '%o%' LIMIT 1", null);
```

```
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





Kod

•

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

webView.getSettings().setJavaScriptEnabled(true);

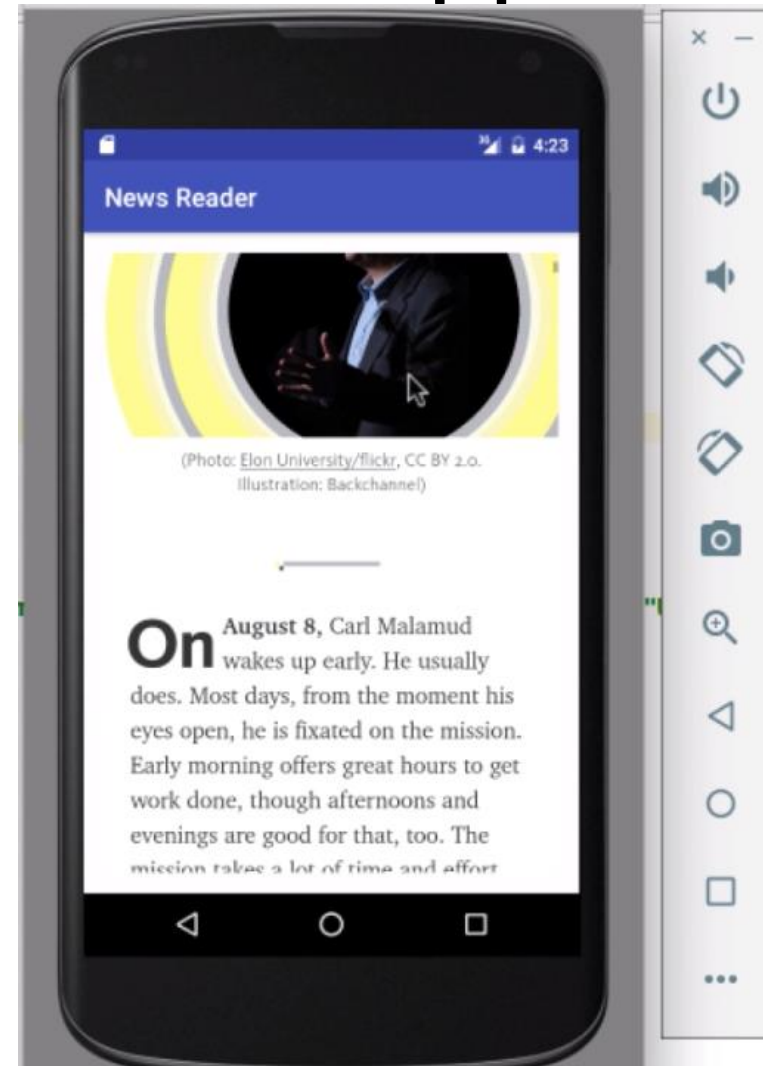
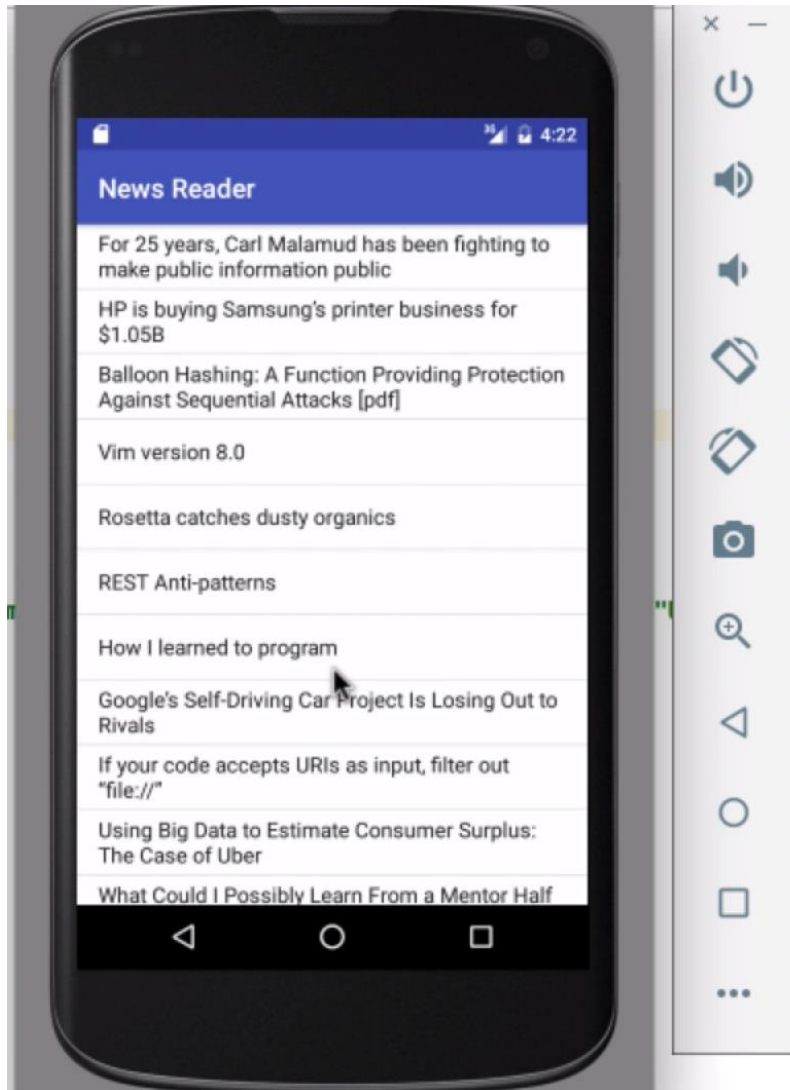
webView.setWebViewClient(new WebViewClient());

//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





- Hackernews
- HackerNews API
- Github
- <https://github.com/HackerNews/API>

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hacker news api

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Listview Setup

```
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);
```



DOWNLOADING CONTENT

- MANIFEST Internet izni ekle

```
@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();
    }
}
```

```
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

```
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++) {...}
```



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



```
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



```
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

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");

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);
    }
});
```