



Medical online

- Supervisor

Dr.Ehab Rushdy

- Team

Islam Hussien Hassan

Islam ahmed Mohamed Abu Sleem

Hala Ibrahim Mohamed

Mai Mohamed Elaweel

Mayada Attia Ibrahim

Shimaa Esam

introduction

- Our application “Medical Online” used for specifying the location and timetable of each pharmacy that has the required drugs ...

Goals of project

- Medical online helps to find medical drug easily
- Find opened pharmacies at late hours
- Save time that is wasted in going to each pharmacy

Easley way

- Anyone that has the app could find the drug they want by searching the drug name
- Choose nearest pharmacy to you to get the drug
- You can know pharmacy name , phone number and address

Nearest pharmacy

- App show you a list of pharmacies according to drug name search
- You can choose any pharmacy you want and the nearest one to you
- App shows also pharmacy phone number and address

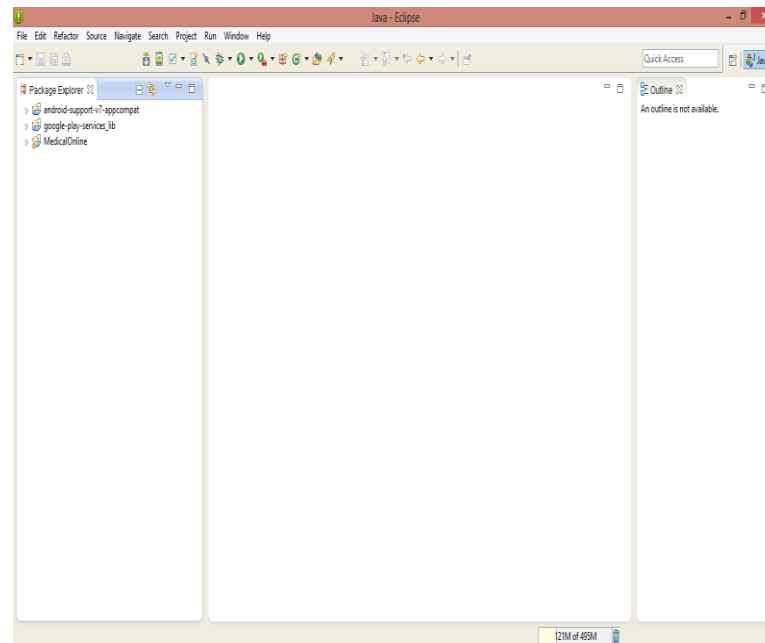
Saving time

- Instead of going to each pharmacy to check if the drug is available or not.
- You can search in all pharmacies by drug name.
- You can know where to find your drug in few seconds.

Tools and Techniques

- Eclipse
- Android
- Php
- Json
- Web server
- MySQL
- Google maps

Eclipse



Android

- It is easy way to implement Application in mobile devices
- It is an open source and free OS and offer apps for free

Php

- Light and free web language
- Most or all server support it
- Many server support it
for free

Json

- JavaScript Object Notation
- It formats data to transfer data easily.
- It has two formats
 - array of objects
 - objects

Web server

- Online server for executing
Php files and MySQL
- Make it easy for pharmacist to
enter his pharmacy information

MySQL

- To store information that app uses
- It stores information about drugs and pharmacies that application used

Implementation

- Php connection
here Php code
That take data
From android
And make
Query

```
// mysql inserting a new row
$result = mysql_query("INSERT INTO drug_pharmacy(drug_id, pharmacy_id) VALUES('$drug_id', '$pharmacy_id')");

// check if row inserted or not
if ($result) {
    // successfully inserted into database
    $response["success"] = 1;
    $response["message"] = "Drug successfully added to a pharmacy.";

    // echoing JSON response
    echo json_encode($response);
} else {
    // failed to insert row
    $response["success"] = 0;
    $response["message"] = "Oops! An error occurred.";

    // echoing JSON response
    echo json_encode($response);
}

else {
    // required field is missing
    $response["success"] = 0;
    $response["message"] = "Required field(s) is missing";

    // echoing JSON response
    echo json_encode($response);
}
```

● Php connection to MySQL

```
<strong><?php
/*
 * All database connection variables
 */
define('DB_USER', "u635709177_mysql"); // db user
define('DB_PASSWORD', "Lalola33"); // db password (mention your db password here)
define('DB_DATABASE', "u635709177_mysql"); // database name
define('DB_SERVER', "mysql.marocwebs.com"); // db server

?></strong>
```



```

class DB_CONNECT {
    // constructor
    function __construct() {
        // connecting to database
        $this->connect();
    }

    // destructor
    function __destruct() {
        // closing db connection
        $this->close();
    }

    /**
     * Function to connect with database
     */
    function connect() {
        // import database connection variables
        require_once __DIR__ . '/configuration.php';
        // Connecting to mysql database
        $con = mysql_connect(DB_SERVER, DB_USER, DB_PASSWORD) or die(mysql_error());
        mysql_set_charset('utf8');

        // Selecting database
        $db = mysql_select_db(DB_DATABASE) or die(mysql_error()) or die(mysql_error());
        // returning connection cursor
        return $con;
    }

    /**
     * Function to close db connection
     */
    function close() {
        // closing db connection
        mysql_close();
    }
}

```



MySQL

● Android

This is the client
Side of
Connecting
Android to
MySQL
database

```
// check for request method
if(method == "POST"){
    // request method is POST
    // defaultHttpClient
    DefaultHttpClient httpClient = new DefaultHttpClient();
    HttpPost httpPost = new HttpPost(url);
    httpPost.setEntity(new UrlEncodedFormEntity(params));

    HttpResponse httpResponse = httpClient.execute(httpPost);
    HttpEntity httpEntity = httpResponse.getEntity();
    is = httpEntity.getContent();

}else if(method == "GET"){
    // request method is GET
    DefaultHttpClient httpClient = new DefaultHttpClient();
    String paramString = URLEncodedUtils.format(params, "utf-8");
    url += "?" + paramString;
    HttpGet httpGet = new HttpGet(url);

    HttpResponse httpResponse = httpClient.execute(httpGet);
    HttpEntity httpEntity = httpResponse.getEntity();
    is = httpEntity.getContent();
}
```

Line

● Json data

```
try {
    success = json.getInt(TAG_SUCCESS);
    JSONArray pharmacies = json.getJSONArray("pharmacies");

    if (success == 1) {
        for (int count = 0; count < pharmacies.length(); count++) {
            JSONObject pharmacy = pharmacies.getJSONObject(0);
            pharmaciesNames.add(pharmacy.getString("name"));
            double lat = Double.parseDouble(pharmacy
                .getString("latitude"));
            double lng = Double.parseDouble(pharmacy
                .getString("longitude"));

            locationsLatLng.add(new LatLng(lat, lng));
            Log.d("pharmacy id : ", pharmacy.getString("id"));
            Log.d("pharmacy name : ", pharmacy.getString("name"));
        }
    }
}
```

- Getting data from jsonArray
- Then extract data from each object

● Google maps

```
public void addMarkersToMap() {  
    for (int i = 0; i < pharmaciesNames.size(); i++) {  
        MarkerOptions pharmacyMarker = new MarkerOptions();  
        pharmacyMarker.position(locationsLatLng.get(i));  
        pharmacyMarker.icon(BitmapDescriptorFactory  
            .defaultMarker(BitmapDescriptorFactory.HUE_MAGENTA));  
        pharmacyMarker.title(pharmaciesNames.get(i));  
        map.addMarker(pharmacyMarker);  
    }  
}
```

that is the method which add markers to
Google maps

Problems

- Connecting android to MySQL
it was the main problem that faced us
In developing our application.
- We solved this problem by using
Php and json

- Another problem is implementing Google maps because of API KEY and SHA1
- Getting data from json
as its new technology in Php and android
And need more accurate steps to get
Data from server to android