**MIDTERM**

**MOBILE PROGRAMMING**

**REPORT**

**Project Name:** WHERE AM I

**Authors:**

**Name:** Tamer

**Surname:** KARALÜRT

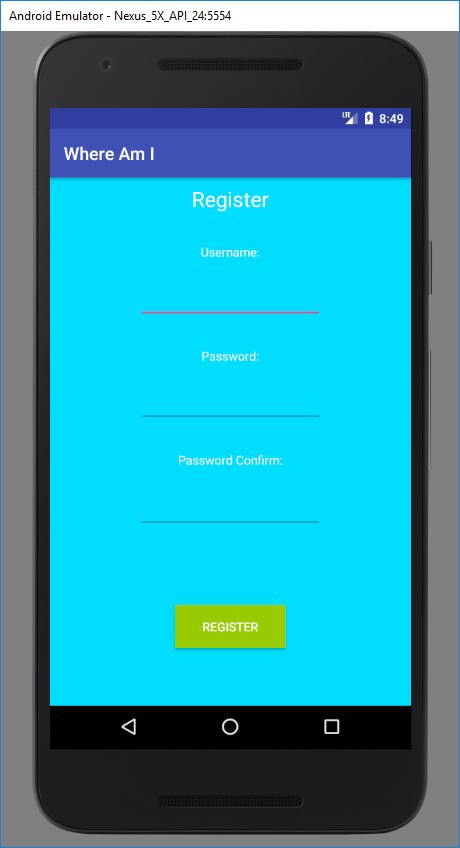
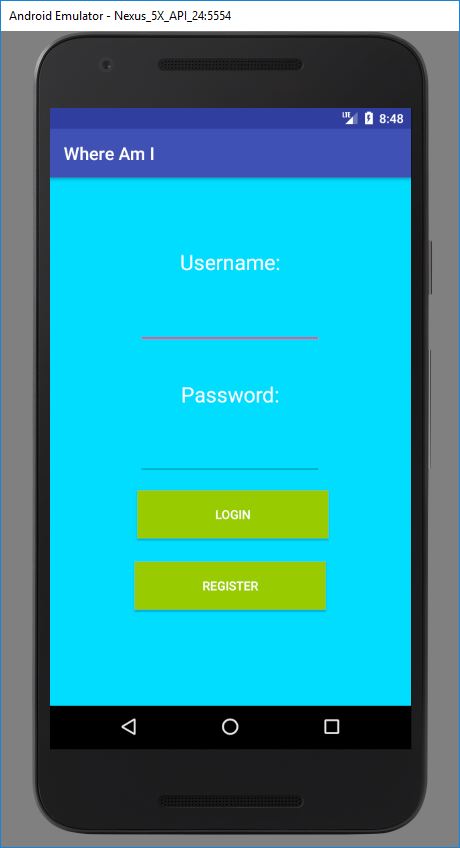
**Student Number:** 155050010

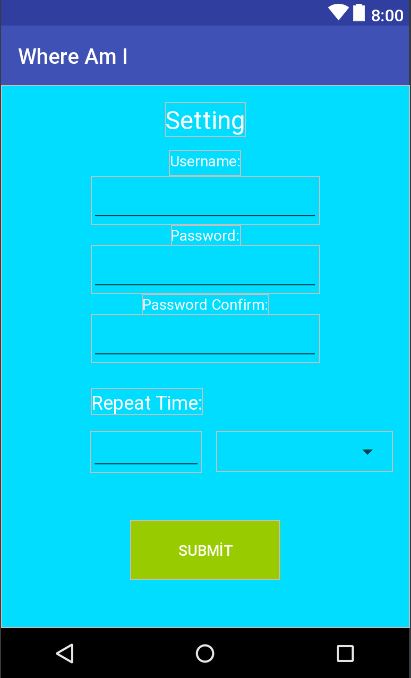
**Name:** Atacan

**Surname:** GÜLER

**Student Number:** 155050041

Login Page: Register Page:



Settings Page:

# Reporting

A part of the design is finished. Coding is done according to prepared designs. The app gets location information from phone’s gps and this app save this logs in a text file. We are going to prepare a homepage respect to a database, this way our app can show the location on google maps and it can do even more.

This is an example code block of location that phone get:

**try**{  
 Calendar calender = Calendar.*getInstance*();  
 SimpleDateFormat df = **new** SimpleDateFormat(**"yyyy-MM-dd HH:mm:ss"**);  
 String formattedDate = df.format(calender.getTime());  
 **result** += intent.getExtras().get(**"coordinates"**) + **" "** + formattedDate.toString()+ **"\n"**;  
 File myFile = **new** File(**"/storage/emulated/0/locations.txt"**);  
  
 **if**(!myFile.exists())  
 {  
 myFile.createNewFile();  
 }  
  
 FileOutputStream fOut = **new** FileOutputStream(myFile);  
 OutputStreamWriter myOutWriter = **new** OutputStreamWriter(fOut);  
 myOutWriter.append(**result**);  
 myOutWriter.close();  
 Log.*e*(**"Basarili"**, **"Location Oluşturuldu."**);  
 fOut.close();  
}  
**catch** (Exception e)  
{  
 Log.*e*(**"error"**, e.getMessage());  
}

**public class** GPS\_Service **extends** Service {  
  
 **private** LocationListener **listener**;  
 **private** LocationManager **locationManager**;  
  
 @Nullable  
 @Override  
 **public** IBinder onBind(Intent intent) {  
 **return null**;  
 }  
  
 @SuppressLint(**"MissingPermission"**)  
 @Override  
 **public void** onCreate() {  
 **super**.onCreate();  
 **listener** = **new** LocationListener() {  
 @Override  
 **public void** onLocationChanged(Location location) {  
 Intent i = **new** Intent(**"location\_update"**);  
 i.putExtra(**"coordinates"**,location.getLongitude()+ **" "** + location.getLatitude()); *//Location enlem ve boylam alınıyor.* sendBroadcast(i);  
 }  
  
 @Override  
 **public void** onStatusChanged(String s, **int** i, Bundle bundle) {  
  
 }  
  
 @Override  
 **public void** onProviderEnabled(String s) {  
  
 }  
  
 @Override  
 **public void** onProviderDisabled(String s) {  
 Intent i = **new** Intent(Settings.***ACTION\_LOCATION\_SOURCE\_SETTINGS***);  
 i.setFlags(Intent.***FLAG\_ACTIVITY\_NEW\_TASK***);  
 startActivity(i);  
 }  
 };  
 **locationManager** = (LocationManager)getApplicationContext().getSystemService(Context.***LOCATION\_SERVICE***);  
 **locationManager**.requestLocationUpdates(**locationManager**.***GPS\_PROVIDER***,3000,0,**listener**); *//Her 3 saniyede bir* }

@Override  
 **public void** onDestroy() {  
 **super**.onDestroy();  
 **if** (**locationManager** != **null**){  
 **locationManager**.removeUpdates(**listener**);  
 }  
 }  
}