**Registration:**

**import** android.app.ProgressDialog;  
**import** android.content.Context;  
**import** android.content.Intent;  
**import** android.content.SharedPreferences;  
**import** android.support.design.widget.TextInputLayout;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**import** com.android.volley.AuthFailureError;  
**import** com.android.volley.Request;  
**import** com.android.volley.RequestQueue;  
**import** com.android.volley.Response;  
**import** com.android.volley.VolleyError;  
**import** com.android.volley.toolbox.StringRequest;  
**import** com.android.volley.toolbox.Volley;  
  
**import** java.util.HashMap;  
**import** java.util.Map;  
  
**public class** UserRegister **extends** AppCompatActivity {  
 TextView **slogin**;  
 TextInputLayout **sinput\_layout\_name**,**sinput\_layout\_username**,**sinput\_layout\_email**,**sinput\_layout\_pass**,**sinput\_layout\_repass**,**sinput\_layout\_location**,**sinput\_layout\_sdob**;  
 EditText **sname**,**sphone**,**spass**,**semail**,**srepass**,**saddress**,**sdob**;  
 Button **ssignup**;  
 ProgressDialog **progressDialog**;  
 **private int progressstatus**=0;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_user\_register***);  
 **sname**=findViewById(R.id.***sname1***);  
 **sphone**=findViewById(R.id.***sphone1***);  
 **semail**=findViewById(R.id.***semail1***);  
 **spass**=findViewById(R.id.***spass1***);  
 **srepass**=findViewById(R.id.***srepass1***);  
 **saddress**=findViewById(R.id.***slocation1***);  
 **sdob**=findViewById(R.id.***sdob1***);  
 **sinput\_layout\_email**=findViewById(R.id.***sinput\_layout\_email1***);  
 **sinput\_layout\_name**=findViewById(R.id.***sinput\_layout\_name1***);  
 **sinput\_layout\_username**=findViewById(R.id.***sinput\_layout\_phone1***);  
 **sinput\_layout\_pass**=findViewById(R.id.***sinput\_layout\_pass1***);  
 **sinput\_layout\_repass**=findViewById(R.id.***sinput\_layout\_repass1***);  
 **sinput\_layout\_location**=findViewById(R.id.***sinput\_layout\_location1***);  
 **sinput\_layout\_sdob**=findViewById(R.id.***sinput\_layout\_dob1***);  
 **slogin**=findViewById(R.id.***slogin1***);  
 **slogin**.setOnClickListener(  
  
 **new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 Intent in=**new** Intent(getApplicationContext(),OwnerSideLogin.**class**);  
 startActivity(in);  
 }  
 });  
 **progressDialog** = **new** ProgressDialog(UserRegister.**this**);  
 **ssignup**=findViewById(R.id.***ssign1***);  
 **final** String emailPattern = **"[a-zA-Z0-9.\_-]+@[a-z]+\\.+[a-z]+"**;  
  
 **ssignup**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
  
  
 String email = **semail**.getText().toString().  
 trim();  
  
 **final** String password=**spass**.getText().toString();  
 **final** String repassword=**srepass**.getText().toString();  
  
  
 **if** (**sname**.getText().toString().trim().isEmpty()) {  
 **sinput\_layout\_name**.setError(getString(R.string.***err\_msg\_name***));  
 }  
 **else if** (**sphone**.getText().toString().trim().isEmpty()) {  
 **sinput\_layout\_name**.setErrorEnabled(**false**);  
 **sinput\_layout\_username**.setError(getString(R.string.***err\_msg\_phoneno***));  
 }  
 **else if** (!email.matches(emailPattern))  
 {  
 **sinput\_layout\_username**.setErrorEnabled(**false**);  
 **sinput\_layout\_email**.setError(getString(R.string.***err\_msg\_email***));  
  
 }  
 **else if** (**sdob**.getText().toString().trim().isEmpty()) {  
 **sinput\_layout\_sdob**.setError(getString(R.string.***err\_msg\_dob***));  
 }  
 **else if** (**saddress**.getText().toString().trim().isEmpty()) {  
 **sinput\_layout\_location**.setError(getString(R.string.***err\_msg\_address***));  
 }  
  
 **else if** (**spass**.getText().toString().trim().isEmpty()) {  
 **sinput\_layout\_email**.setErrorEnabled(**false**);  
 **sinput\_layout\_pass**.setError(getString(R.string.***err\_msg\_password***));  
 }  
 **else if** (**srepass**.getText().toString().trim().isEmpty()) {  
 **sinput\_layout\_pass**.setErrorEnabled(**false**);  
 **sinput\_layout\_repass**.setError(getString(R.string.***err\_msg\_repass***));  
 }  
  
 **else if**(password.equals(repassword)){  
 processRequest();  
  
  
 }  
 **else** {  
 **sinput\_layout\_repass**.setError(**"Password Doesn't Match"**);  
  
 }  
  
  
 }  
  
  
  
 });  
  
  
 }  
  
 **private void** processRequest() {  
  
 **progressDialog**.setMessage(**"Please Wait, We are Inserting Your Data on Server"**);  
 **progressDialog**.show();  
  
 StringRequest sr = **new** StringRequest(Request.Method.***POST***,**"https://jashminr.000webhostapp.com/CloudSecurity/UserRegister.php"**, **new** Response.Listener<String>() {  
  
  
 @Override  
 **public void** onResponse(String response) {  
 **progressDialog**.dismiss();  
 **if**(response.equalsIgnoreCase(**"inserted"**)) {  
  
  
  
 Toast.*makeText*(getApplicationContext(), **"success"**, Toast.***LENGTH\_LONG***).show();  
 SharedPreferences pref = getSharedPreferences(**"LoginPREFs"**, Context.***MODE\_PRIVATE***);  
 SharedPreferences.Editor edt = pref.edit();  
 edt.putString(**"Name"**,**sname**.getText().toString());  
 edt.putString(**"Email"**,**semail**.getText().toString());  
 edt.commit();  
 finish();  
  
  
  
 Intent in = **new** Intent(getApplicationContext(), UserSideHome.**class**);  
 startActivity(in);  
 }  
 **else** {  
  
 *// Showing Echo Response Message Coming From Server.* Toast.*makeText*(UserRegister.**this**, response, Toast.***LENGTH\_LONG***).show();  
  
 }  
 }  
 }, **new** Response.ErrorListener() {  
 @Override  
 **public void** onErrorResponse(VolleyError error) {  
 **progressDialog**.dismiss();  
  
 Toast.*makeText*(UserRegister.**this**, **"No Internet Connection"**+error, Toast.***LENGTH\_LONG***).show();  
 }  
 }) {  
 @Override  
 **protected** Map<String, String> getParams() **throws** AuthFailureError {  
 Map<String, String> params = **new** HashMap<String, String>();  
  
 *// Adding All values to Params.* String name = **sname**.getText().toString().trim();  
 String pass = **spass**.getText().toString().trim();  
 String email=**semail**.getText().toString().trim();  
 String location=**saddress**.getText().toString().trim();  
 String dob=**sdob**.getText().toString().trim();  
 String phone = **sphone**.getText().toString().trim();  
 params.put(**"Name"**, name);  
 params.put(**"Mobile"**, phone);  
 params.put(**"Address"**,location);  
 params.put(**"DateOfBirth"**,dob);  
 params.put(**"Mail"**,email);  
 params.put(**"Password"**, pass);  
  
  
  
 **return** params;  
 }  
  
  
 };  
  
 RequestQueue requestQueue= Volley.*newRequestQueue*(UserRegister.**this**);  
 requestQueue.add(sr);  
  
 }  
}

**Login:**

**import** android.app.ProgressDialog;  
**import** android.content.Context;  
**import** android.content.Intent;  
**import** android.content.SharedPreferences;  
**import** android.os.Handler;  
**import** android.support.design.widget.TextInputLayout;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.util.Patterns;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**import** com.android.volley.AuthFailureError;  
**import** com.android.volley.Request;  
**import** com.android.volley.RequestQueue;  
**import** com.android.volley.Response;  
**import** com.android.volley.VolleyError;  
**import** com.android.volley.toolbox.StringRequest;  
**import** com.android.volley.toolbox.Volley;  
  
**import** java.util.HashMap;  
**import** java.util.Map;  
**import** java.util.Random;  
  
**public class** UserSideLogin **extends** AppCompatActivity {  
 TextView **signup**;  
 Button **login**;  
 EditText **user**,**pass**;  
 **int i2**;  
 String **I**,**n1**;  
  
 ProgressDialog **progressDialog**;  
 **public static final** String ***SHARED\_VALUE***=**"shared\_value"**;  
 **public static final** String ***NAME***=**"name"**;  
 **public static final** String ***ACCOUNT***=**"account"**;  
 **public static final** String ***EMAIL***=**"email"**;  
 **public static final** String ***MOBILE***=**"mobile"**;  
 **public static final** String ***AMOUNT***=**"amount"**;  
  
 **private** Handler **mHandler** = **new** Handler();  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_user\_side\_login***);  
 **signup**=findViewById(R.id.***lnsignup***);  
 Random rand = **new** Random();  
 **i2** = rand.nextInt(10000);  
 **I** = Integer.*toString*(**i2**);  
 **signup**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 Intent in=**new** Intent(getApplicationContext(),UserRegister.**class**);  
 startActivity(in);  
 }  
 });  
 **user** = findViewById(R.id.***lnuser***);  
 **pass** = findViewById(R.id.***lnpass***);  
 **progressDialog** = **new** ProgressDialog(UserSideLogin.**this**);  
 **final** String emailPattern = **"[a-zA-Z0-9.\_-]+@[a-z]+\\.+[a-z]+"**;  
 **login**=findViewById(R.id.***llnoginnew***);  
*// SharedPreferences pref = getSharedPreferences("ActivityPREF", Context.MODE\_PRIVATE);  
// SharedPreferences.Editor edt = pref.edit();  
// edt.putBoolean("activity\_executed", true);  
// edt.commit();* **login**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 String username = **user**.getText().toString().trim();  
 **if** (**user**.getText().toString().isEmpty() || !Patterns.***EMAIL\_ADDRESS***.matcher(**user**.getText().toString()).matches()) {  
 *// Toast.makeText(getApplicationContext(),"Enter Correct Email",Toast.LENGTH\_LONG).show();* **user**.setError(**"Enter correct email "**);  
  
 } **else if** (**pass**.getText().toString().isEmpty()) {  
 *//Toast.makeText(getApplicationContext(),"Enter Correct password",Toast.LENGTH\_LONG).show();* **pass**.setError(**"Enter correct password "**);  
 } **else** {  
  
  
 UserLogin();  
 }  
  
 }  
 });  
 }  
  
 **private void** UserLogin() {  
 **progressDialog**.setMessage(**"Please Wait"**);  
 **progressDialog**.show();  
 StringRequest sr = **new** StringRequest(Request.Method.***POST***, **"https://jashminr.000webhostapp.com/CloudSecurity/UserLogin.php"**, **new** Response.Listener<String>() {  
  
  
 @Override  
 **public void** onResponse(String response) {  
  
 **progressDialog**.dismiss();  
 **if**(response.equalsIgnoreCase(**"Data MatchedStatus Changed Successfully !!"**)) {  
  
 *// If response matched then show the toast.* Toast.*makeText*(UserSideLogin.**this**, **"Logged In Successfully"**, Toast.***LENGTH\_LONG***).show();  
  
 *// Finish the current Login activity.* Intent intent = **new** Intent(UserSideLogin.**this**, UserSideHome.**class**);  
  
  
 startActivity(intent);  
 }  
  
 **else** {  
 Toast.*makeText*(getApplicationContext(), **"Invalid Username and password"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 *// Showing Echo Response Message Coming From Server.* }  
  
 }, **new** Response.ErrorListener() {  
 @Override  
 **public void** onErrorResponse(VolleyError error) {  
  
 **progressDialog**.dismiss();  
 Toast.*makeText*(UserSideLogin.**this**, **"No Internet Connection"**, Toast.***LENGTH\_LONG***).show();  
 }  
 }) {  
 @Override  
 **protected** Map<String, String> getParams() **throws** AuthFailureError {  
 Map<String, String> params = **new** HashMap<String, String>();  
  
 *// Adding All values to Params.* String EmailHolder = **user**.getText().toString().trim();  
 String PasswordHolder = **pass**.getText().toString().trim();  
 params.put(**"Users"**, EmailHolder);  
 params.put(**"Passs"**, PasswordHolder);  
 **return** params;  
 }  
  
  
 };  
 RequestQueue requestQueue= Volley.*newRequestQueue*(UserSideLogin.**this**);  
 requestQueue.add(sr);  
  
  
  
  
 }  
}

**File Upload**

**import** android.app.Activity;  
**import** android.app.ProgressDialog;  
**import** android.content.Context;  
**import** android.content.Intent;  
**import** android.content.SharedPreferences;  
**import** android.database.Cursor;  
**import** android.graphics.Bitmap;  
**import** android.graphics.BitmapFactory;  
**import** android.net.Uri;  
**import** android.provider.MediaStore;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.util.Base64;  
**import** android.util.Log;  
**import** android.util.Patterns;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.ImageView;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**import** com.example.mobilecloudcomputing.retrofit.ApiClient;  
**import** com.example.mobilecloudcomputing.retrofit.ApiInterface;  
  
**import** java.io.File;  
**import** java.math.BigInteger;  
**import** java.security.MessageDigest;  
**import** java.security.NoSuchAlgorithmException;  
**import** java.util.Random;  
  
**import** okhttp3.MediaType;  
**import** okhttp3.MultipartBody;  
**import** okhttp3.RequestBody;  
**import** okhttp3.ResponseBody;  
**import** retrofit2.Call;  
**import** retrofit2.Callback;  
  
  
**public class** FileUpload **extends** AppCompatActivity {  
  
  
 Button **register**;  
 EditText **filename**, **filetag**;  
 TextView **name**, **email**, **key**;  
 ImageView **iv\_profile**;  
 Bitmap **profilePicture**;  
 String **profile**;  
 SharedPreferences **sharedPreferences**;  
 ImageView **goback**;  
 Uri **fileUri**;  
 ProgressDialog **progressDialog**;  
 **public static final** String ***CHARLIST*** = **"abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ1234567890"**;  
 **public static final int *CharLength*** = 8;  
 TextView **lblUploadFile**;  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_file\_upload***);  
 setTitle(**"Upload"**);  
 **filename** = findViewById(R.id.***filename***);  
 **key** = findViewById(R.id.***keys***);  
 **name** = findViewById(R.id.***ownernames***);  
 **iv\_profile** = findViewById(R.id.***buttonUpload***);  
 **email** = findViewById(R.id.***oemail***);  
 **register** = findViewById(R.id.***sub***);  
 **filetag** = findViewById(R.id.***filetag***);  
 **goback** = findViewById(R.id.***gobackBtnAdmins***);  
 **lblUploadFile** = findViewById(R.id.***lbl\_upload\_file***);  
 **progressDialog** = **new** ProgressDialog(FileUpload.**this**);  
 SharedPreferences sharedPreferences = getApplicationContext().getSharedPreferences(**"LoginPREF"**, Context.***MODE\_PRIVATE***);  
 String names = sharedPreferences.getString(**"NAME"**, **""**);  
 String oemail = sharedPreferences.getString(**"USER"**, **""**);  
 String okey = sharedPreferences.getString(**"KEY"**, **""**);  
  
 **name**.setText(names);  
 **email**.setText(oemail);  
 **key**.setText(okey);  
 **goback**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 Intent intent = **new** Intent(FileUpload.**this**, OwnerHome.**class**);  
 startActivity(intent);  
 }  
 });  
  
 **register**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 validation();  
 GenerateAssignKey();  
  
 }  
 });  
 **iv\_profile**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 Intent intent = **new** Intent(Intent.***ACTION\_GET\_CONTENT***);  
 intent.setType(**"application/pdf"**);  
 startActivityForResult(intent, 1000);  
 }  
 });  
  
  
 }  
  
 @Override  
 **protected void** onActivityResult(**int** requestCode, **int** resultCode, Intent data) {  
 **super**.onActivityResult(requestCode, resultCode, data);  
 **if** (requestCode == 1000 && resultCode == Activity.***RESULT\_OK*** && data != **null**) {  
 **fileUri** = data.getData();  
 **lblUploadFile**.setText(**fileUri** != **null** ? getRealPathFromURI(**this**, **fileUri**) : **""**);  
 }  
 }  
  
 **public** String getRealPathFromURI(Context context, Uri contentUri) {  
 Cursor cursor = **null**;  
 **try** {  
 String[] proj = { MediaStore.Images.Media.***DATA*** };  
 cursor = context.getContentResolver().query(contentUri, proj, **null**, **null**, **null**);  
 **int** column\_index = cursor.getColumnIndexOrThrow(MediaStore.Images.Media.***DATA***);  
 cursor.moveToFirst();  
 **return** cursor.getString(column\_index);  
 } **finally** {  
 **if** (cursor != **null**) {  
 cursor.close();  
 }  
 }  
 }  
  
  
 **private void** validation() {  
 **final** String oname = **filename**.getText().toString().trim();  
 **if** (validateName(oname)) {  
*// signupRequest();* uploadFile();  
 } **else** {  
 Toast.*makeText*(getApplicationContext(), **"All fields Required"**, Toast.***LENGTH\_LONG***).show();  
 }  
  
 }  
  
 **private boolean** validateName(String oname) {  
 **if** (oname.equals(**""**)) {  
 **filename**.setError(**"Enter Your filename"**);  
 **return false**;  
 }  
 **return true**;  
 }  
  
 **private void** uploadFile() {  
 **progressDialog**.setMessage(**"Loading"**);  
 **progressDialog**.show();  
  
 File file = **new** File(getRealPathFromURI(**this**, **fileUri**));  
 **if**(file.exists()) {  
 RequestBody requestBody = RequestBody.*create*(MediaType.*parse*(**"application/pdf"**), file);  
 MultipartBody.Part body = MultipartBody.Part.*createFormData*(**"file"**, file.getName(), requestBody);  
 RequestBody name = RequestBody.*create*(MediaType.*parse*(**"text/plain"**), **"jas"**);  
 RequestBody file\_name = RequestBody.*create*(MediaType.*parse*(**"text/plain"**), **filename**.getText().toString());  
 RequestBody key\_value = RequestBody.*create*(MediaType.*parse*(**"text/plain"**), **key**.getText().toString());  
 RequestBody fileTag = RequestBody.*create*(MediaType.*parse*(**"text/plain"**), **filetag**.getText().toString());  
 RequestBody eMail = RequestBody.*create*(MediaType.*parse*(**"text/plain"**), **"rasi@gmail.com"**);  
 ApiInterface apiService = ApiClient.*getClient*().create(ApiInterface.**class**);  
 */\*Call<ResponseBody> call = apiService.uploadFile(name.getText().toString(),  
 email.getText().toString(),  
 key.getText().toString(),  
 filename.getText().toString(),  
 filetag.getText().toString(),  
 body);\*/* Call<ResponseBody> call = apiService.uploadFile(name,  
 eMail, key\_value, file\_name, fileTag,  
 body);  
 call.enqueue(**new** Callback<ResponseBody>() {  
 @Override  
 **public void** onResponse(Call<ResponseBody> call, retrofit2.Response<ResponseBody> response) {  
 **progressDialog**.dismiss();  
 Toast.*makeText*(FileUpload.**this**, response.message(), Toast.***LENGTH\_SHORT***).show();  
 }  
 @Override  
 **public void** onFailure(Call<ResponseBody> call, Throwable t) {  
 Toast.*makeText*(FileUpload.**this**, t.getLocalizedMessage(), Toast.***LENGTH\_SHORT***).show();  
 **progressDialog**.dismiss();  
 }  
 });  
 }  
 }  
  
  
 */\*private void signupRequest() {  
 progressDialog.setMessage("Loading");  
 progressDialog.show();  
  
 final String otag = filetag.getText().toString();  
 final String oname = filename.getText().toString();  
 convertBitmapToString(profilePicture);  
  
  
  
 StringRequest stringRequest = new StringRequest(Request.Method.POST, "https://jashminr.000webhostapp.com/CloudSecurity/Fileupload.php", new Response.Listener<String>() {  
 @Override  
 public void onResponse(String response) {  
 progressDialog.dismiss();  
  
  
  
 Toast.makeText(getApplicationContext(), response, Toast.LENGTH\_LONG).show();  
  
 }  
  
  
 }, new Response.ErrorListener() {  
 @Override  
 public void onErrorResponse(VolleyError error) {  
  
 }  
 }) {  
 @Override  
 protected Map<String, String> getParams() throws AuthFailureError {  
 Map<String, String> params = new HashMap<String, String>();  
 params.put("ONAME", name.getText().toString());  
 params.put("OEMAIL", email.getText().toString());  
 params.put("Filename", oname);  
 params.put("FileTag", otag);  
 params.put("OKEY", key.getText().toString());  
 params.put("File",profile);  
  
 return params;  
  
 }  
 };  
  
 RequestQueue requestQueue = Volley.newRequestQueue(this);  
 requestQueue.add(stringRequest);  
 }  
 private void convertBitmapToString(Bitmap profilePicture) {  
 ByteArrayOutputStream byteArrayOutputStream = new ByteArrayOutputStream();  
 profilePicture.compress(Bitmap.CompressFormat.PNG, 100, byteArrayOutputStream);  
 byte[] array = byteArrayOutputStream.toByteArray();  
 profile = Base64.encodeToString(array, Base64.DEFAULT);  
 }\*/* **public** String GenerateAssignKey() {  
 StringBuffer sb = **new** StringBuffer();  
 **for** (**int** i = 0; i < ***CharLength***; i++) {  
 **int** no = GenerateRandomNumber();  
 **char** key = ***CHARLIST***.charAt(no);  
 sb.append(key);  
 }  
 **return** sb.toString();  
 }  
  
 **private int** GenerateRandomNumber() {  
 **int** no = 0;  
 Random r = **new** Random();  
 no = r.nextInt(***CHARLIST***.length());  
 **if** (no - 1 == -1) {  
 **return** no;  
 } **else** {  
 **return** no - 1;  
 }  
 }  
}

**User Request**

**import** android.os.Bundle;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.support.v7.widget.LinearLayoutManager;  
**import** android.support.v7.widget.RecyclerView;  
**import** android.widget.Toast;  
**import** com.android.volley.AuthFailureError;  
**import** com.android.volley.Request;  
**import** com.android.volley.Response;  
**import** com.android.volley.VolleyError;  
**import** com.android.volley.toolbox.StringRequest;  
**import** com.android.volley.toolbox.Volley;  
  
**import** org.json.JSONArray;  
**import** org.json.JSONObject;  
  
**import** java.util.ArrayList;  
**import** java.util.HashMap;  
**import** java.util.List;  
**import** java.util.Map;  
  
**public class** UserRequest **extends** AppCompatActivity {  
  
  
 List <RequestPogo> **items**;  
  
 RecyclerView **recyclerView**;  
  
 RecyclerView.Adapter **adapter**;  
  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate ( savedInstanceState );  
 setContentView ( R.layout.***activity\_user\_request*** );  
  
 **recyclerView** =findViewById(R.id.***reci***);  
  
 **recyclerView**.setLayoutManager(**new** LinearLayoutManager (getApplicationContext()));  
  
 **items** = **new** ArrayList <> ();  
  
 **adapter** = **new** RequestAdapter(**items**, getApplicationContext());  
  
 **recyclerView**.setAdapter(**adapter**);  
  
 getUsers ();  
 }  
  
  
 **public void** getUsers(){  
  
  
 StringRequest request = **new** StringRequest( Request.Method.***POST***, **"https://jashminr.000webhostapp.com/CloudSecurity/userRequestdetails.php"**, **new** Response.Listener<String>() {  
 @Override  
 **public void** onResponse(String response) {  
  
 Toast.*makeText* ( UserRequest.**this**, response, Toast.***LENGTH\_SHORT*** ).show ();  
  
  
 **try** {  
  
 JSONObject object = **new** JSONObject(response);  
  
 JSONArray array = object.getJSONArray(**"project\_details"**);  
  
 **for**(**int** i=0;i<array.length();i++){  
  
 JSONObject object1 = array.getJSONObject(i);  
  
 RequestPogo item = **new** RequestPogo();  
  
 item.setUsername (object1.getString(**"UserName"**));  
  
 item.setEmail (object1.getString(**"UserMailId"**));  
  
 item.setRequesttime (object1.getString(**"RequestedDate"**));  
 item.setFilename (object1.getString(**"FileName"**));  
  
  
 **items**.add(item);  
  
 **adapter**.notifyDataSetChanged();  
  
 }  
  
 } **catch** (Exception e) {  
  
 Toast.*makeText*(getApplicationContext (), **"Database Error"**, Toast.***LENGTH\_SHORT***).show();  
  
 e.printStackTrace();  
 }  
  
 }  
 }, **new** Response.ErrorListener() {  
 @Override  
 **public void** onErrorResponse(VolleyError error) {  
  
 Toast.*makeText*(getApplicationContext (), **"Connection Error"**, Toast.***LENGTH\_SHORT***).show();  
  
 error.printStackTrace();  
  
 }  
 }){  
  
 @Override  
 **protected** Map<String, String> getParams() **throws** AuthFailureError {  
  
 Map<String,String> map = **new** HashMap<>();  
  
 **return** map;  
 }  
 };  
  
 Volley.*newRequestQueue*(getApplicationContext ()).add(request);  
 }  
}

**Request Adapter:**

**import** android.app.ActivityOptions;  
**import** android.app.ActivityOptions;  
**import** android.content.Context;  
**import** android.content.DialogInterface;  
**import** android.content.Intent;  
**import** android.content.SharedPreferences;  
**import** android.support.annotation.NonNull;  
**import** android.support.v7.app.AlertDialog;  
**import** android.support.v7.widget.CardView;  
**import** android.support.v7.widget.RecyclerView;  
**import** android.view.LayoutInflater;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
**import** android.widget.Button;  
**import** android.widget.ImageView;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**import** com.android.volley.AuthFailureError;  
**import** com.android.volley.Request;  
**import** com.android.volley.RequestQueue;  
**import** com.android.volley.Response;  
**import** com.android.volley.VolleyError;  
**import** com.android.volley.toolbox.StringRequest;  
**import** com.android.volley.toolbox.Volley;  
**import** com.bumptech.glide.Glide;  
**import** java.util.HashMap;  
**import** java.util.List;  
**import** java.util.Map;  
  
**public class** RequestAdapter **extends** RecyclerView.Adapter<RequestAdapter.ViewHolder> {  
  
 List<RequestPogo> **items**;  
  
 Context **context**;  
  
 TextView **username**,**mailid**,**filename**,**requesttime**;  
  
 Button **sendkey**;  
  
 **public** RequestAdapter(List<RequestPogo> items, Context context) {  
  
 **this**.**items** = items;  
 **this**.**context** = context;  
 }  
  
 @NonNull  
 @Override  
 **public** ViewHolder onCreateViewHolder(@NonNull ViewGroup parent, **int** viewType) {  
  
 View view = LayoutInflater.*from*(parent.getContext()).inflate(R.layout.***requestdesign***,parent,**false**);  
  
 **return new** ViewHolder(view);  
 }  
  
 @Override  
 **public void** onBindViewHolder(@NonNull **final** ViewHolder holder, **int** position) {  
  
 **final** RequestPogo item = **items**.get(position);  
  
 holder.**username**.setText(item.getUsername());  
  
 holder.**mailid**.setText(item.getEmail());  
 holder.**filename**.setText(item.getFilename());  
 holder.**requesttime**.setText(item.getRequesttime());  
  
 holder.**accept**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 holder.**reject**.setVisibility(View.***INVISIBLE***);  
 StringRequest stringRequest = **new** StringRequest(Request.Method.***POST***, **"https://jashminr.000webhostapp.com/CloudSecurity/KeyAssign.php"**, **new** Response.Listener<String>() {  
 @Override  
 **public void** onResponse(String response) {  
  
  
 Toast.*makeText*(**context**.getApplicationContext(), **"Key send Successfully"**, Toast.***LENGTH\_LONG***).show();  
  
  
 *// Toast.makeText(User\_Feedback.this, response.toString(), Toast.LENGTH\_SHORT).show();* }  
 }, **new** Response.ErrorListener() {  
 @Override  
 **public void** onErrorResponse(VolleyError error) {  
 *// Toast.makeText(User\_Feedback.this, error.toString(), Toast.LENGTH\_SHORT).show();* }  
 }) {  
 @Override  
 **protected** Map<String, String> getParams() **throws** AuthFailureError {  
 Map<String, String> par = **new** HashMap<>();  
 par.put(**"OwnerMailId"**, item.getOwnermailid());  
 par.put(**"KeySended "**,**"1"**);  
 *// par.put("senderId", );* **return** par;  
 }  
 };  
 RequestQueue rq = Volley.*newRequestQueue*(**context**.getApplicationContext());  
 rq.add(stringRequest);  
  
  
 }  
 });  
 holder.**reject**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 holder.**accept**.setVisibility(View.***INVISIBLE***);  
 StringRequest tt = **new** StringRequest(Request.Method.***POST***, **"https://jashminr.000webhostapp.com/CloudSecurity/UserRequest.php"**, **new** Response.Listener<String>() {  
 @Override  
 **public void** onResponse(String response) {  
  
 Toast.*makeText*(**context**, **"Reject"**, Toast.***LENGTH\_SHORT***).show();  
  
 }  
 }, **new** Response.ErrorListener() {  
 @Override  
 **public void** onErrorResponse(VolleyError error) {  
  
 }  
 })  
  
 {  
 @Override  
 **protected** Map<String, String> getParams() **throws** AuthFailureError {  
 Map<String, String> par = **new** HashMap<String, String>();  
 par.put(**"UserName"**, item.getUsername());  
 par.put(**"UserMailId"**, item.getEmail());  
 par.put(**"FileName"**, item.getFilename());  
 par.put(**"NotSended"**,**"2"**);  
 **return** (par);  
 }  
 };  
 RequestQueue re = Volley.*newRequestQueue*(**context**);  
 re.add(tt);  
 }  
 });  
  
  
  
  
 }  
  
  
  
  
  
  
  
  
  
 @Override  
 **public int** getItemCount() {  
 **return items**.size();  
 }  
  
 **public class** ViewHolder **extends** RecyclerView.ViewHolder{  
  
 TextView **username**,**mailid**,**filename**,**requesttime**;  
  
 ImageView **imageView**;  
 Button **accept**,**reject**;  
  
  
 **public** ViewHolder(View itemView) {  
 **super**(itemView);  
  
 **username** = itemView.findViewById(R.id.***username***);  
  
 **mailid** = itemView.findViewById(R.id.***umail***);  
  
 **filename** = itemView.findViewById(R.id.***userfile***);  
 **requesttime** = itemView.findViewById(R.id.***rdate***);  
 **accept**=itemView.findViewById(R.id.***ba***);  
 **reject**=itemView.findViewById(R.id.***br***);  
  
  
  
 }  
 }  
}

**Service:**

**package** com.example.mobilecloudcomputing;  
  
**class** RequestPogo {  
 String **username**;  
 String **email**;  
 String **requesttime**;  
 String **sendkey**;  
  
 **public** String getOwnernames() {  
 **return ownernames**;  
 }  
  
 **public void** setOwnernames(String ownernames) {  
 **this**.**ownernames** = ownernames;  
 }  
  
 **public** String getOwnermailid() {  
 **return ownermailid**;  
 }  
  
 **public void** setOwnermailid(String ownermailid) {  
 **this**.**ownermailid** = ownermailid;  
 }  
  
 String **ownernames**;  
 String **ownermailid**;  
  
 **public** String getRequesttime() {  
 **return requesttime**;  
 }  
  
 **public void** setRequesttime(String requesttime) {  
 **this**.**requesttime** = requesttime;  
 }  
  
 **public** String getSendkey() {  
 **return sendkey**;  
 }  
  
 **public void** setSendkey(String sendkey) {  
 **this**.**sendkey** = sendkey;  
 }  
  
 **public** String getUsername() {  
 **return username**;  
 }  
  
 **public void** setUsername(String username) {  
 **this**.**username** = username;  
 }  
  
 **public** String getEmail() {  
 **return email**;  
 }  
  
 **public void** setEmail(String email) {  
 **this**.**email** = email;  
 }  
  
 **public** String getFilename() {  
 **return filename**;  
 }  
  
 **public void** setFilename(String filename) {  
 **this**.**filename** = filename;  
 }  
  
 String **filename**;  
  
}

**View Download file:**

**import** android.app.DownloadManager;  
**import** android.app.ProgressDialog;  
**import** android.content.Context;  
**import** android.content.Intent;  
**import** android.content.SharedPreferences;  
**import** android.net.Uri;  
**import** android.os.Build;  
**import** android.os.Environment;  
**import** android.os.Handler;  
**import** android.support.annotation.RequiresApi;  
**import** android.support.design.widget.TextInputLayout;  
**import** android.support.v7.app.AppCompatActivity;  
**import** android.os.Bundle;  
**import** android.util.Patterns;  
**import** android.view.View;  
**import** android.widget.Button;  
**import** android.widget.EditText;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**import** com.android.volley.AuthFailureError;  
**import** com.android.volley.Request;  
**import** com.android.volley.RequestQueue;  
**import** com.android.volley.Response;  
**import** com.android.volley.VolleyError;  
**import** com.android.volley.toolbox.StringRequest;  
**import** com.android.volley.toolbox.Volley;  
  
**import** java.io.File;  
**import** java.util.HashMap;  
**import** java.util.Map;  
**import** java.util.Random;  
  
**public class** ViewDownloadImage **extends** AppCompatActivity {  
  
 Button **login**;  
 EditText **email**, **key**;  
 **int i2**;  
 String **I**, **n1**;  
 **private** DownloadManager **downloadManager**;  
 **private long downloadReference**;  
  
 ProgressDialog **progressDialog**;  
  
 **private** Handler **mHandler** = **new** Handler();  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_view\_download\_image***);  
 **email** = findViewById(R.id.***editmail***);  
 **key** = findViewById(R.id.***editTextId1***);  
 **progressDialog** = **new** ProgressDialog(ViewDownloadImage.**this**);  
 **final** String emailPattern = **"[a-zA-Z0-9.\_-]+@[a-z]+\\.+[a-z]+"**;  
 **login** = findViewById(R.id.***buttonGetImage***);  
*// SharedPreferences pref = getSharedPreferences("ActivityPREF", Context.MODE\_PRIVATE);  
// SharedPreferences.Editor edt = pref.edit();  
// edt.putBoolean("activity\_executed", true);  
// edt.commit();* **login**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 String username = **email**.getText().toString().trim();  
 **if** (**email**.getText().toString().isEmpty() || !Patterns.***EMAIL\_ADDRESS***.matcher(**email**.getText().toString()).matches()) {  
 *// Toast.makeText(getApplicationContext(),"Enter Correct Email",Toast.LENGTH\_LONG).show();* **email**.setError(**"Enter correct email "**);  
  
 } **else if** (**key**.getText().toString().isEmpty()) {  
 *//Toast.makeText(getApplicationContext(),"Enter Correct password",Toast.LENGTH\_LONG).show();* **key**.setError(**"Enter correct key "**);  
 } **else** {  
  
  
 UserDownload();  
 }  
  
 }  
 });  
 }  
  
 **private void** UserDownload() {  
 **progressDialog**.setMessage(**"Please Wait"**);  
 **progressDialog**.show();  
 StringRequest sr = **new** StringRequest(Request.Method.***POST***, **"https://jashminr.000webhostapp.com/CloudSecurity/filedownload.php"**, **new** Response.Listener<String>() {  
 @RequiresApi(api = Build.VERSION\_CODES.***N***)  
 @Override  
 **public void** onResponse(String response) {  
 **progressDialog**.dismiss();  
 **if** (response.equalsIgnoreCase(**"error"**)) {  
 Toast.*makeText*(getApplicationContext(), **"Invalid Email and Key"**, Toast.***LENGTH\_SHORT***).show();  
 *// If response matched then show the toast.* } **else** {  
  
 Toast.*makeText*(ViewDownloadImage.**this**, response, Toast.***LENGTH\_SHORT***).show();  
  
*// File file=new File (getExternalFilesDir(null),"Dummy");  
// /\* \*/  
// DownloadManager.Request request=new DownloadManager.Request(Uri.parse("http://speedtest.ftp.otenet.gr/files/test10Mb.db"))  
// .setTitle("Dummy File")// Title of the Download Notification  
// .setDescription("Downloading")// Description of the Download Notification  
// .setNotificationVisibility(DownloadManager.Request.VISIBILITY\_VISIBLE)// Visibility of the download Notification  
// .setDestinationUri(Uri.fromFile(file))// Uri of the destination file  
// .setRequiresCharging(false)// Set if charging is required to begin the download  
// .setAllowedOverMetered(true)// Set if download is allowed on Mobile network  
// .setAllowedOverRoaming(true);// Set if download is allowed on roaming network  
 /\*Toast.makeText(ViewDownloadImage.this, response, Toast.LENGTH\_LONG).show();  
 Intent intent = new Intent(ViewDownloadImage.this, UserSideHome.class);  
 startActivity(intent);\*/* **downloadManager** = (DownloadManager) getSystemService(***DOWNLOAD\_SERVICE***);  
 Uri Download\_Uri = Uri.*parse*(response);  
 DownloadManager.Request request = **new** DownloadManager.Request(Download\_Uri);  
 request.setAllowedNetworkTypes(DownloadManager.Request.***NETWORK\_WIFI*** | DownloadManager.Request.***NETWORK\_MOBILE***);  
 request.setAllowedOverRoaming(**false**);  
 String[] filename = response.split(**"/"**);  
 request.setTitle(filename[filename.**length** - 1]);  
 request.setDescription(**"Android Data download using DownloadManager."**);  
 request.setDestinationInExternalFilesDir(getApplicationContext(), Environment.*DIRECTORY\_DOWNLOADS*, filename[filename.**length** - 1]);  
 **downloadReference** = **downloadManager**.enqueue(request);  
 }  
 }  
  
 }, **new** Response.ErrorListener() {  
 @Override  
 **public void** onErrorResponse(VolleyError error) {  
  
 **progressDialog**.dismiss();  
 Toast.*makeText*(ViewDownloadImage.**this**, **"No Internet Connection"**, Toast.***LENGTH\_LONG***).show();  
 }  
 }) {  
 @Override  
 **protected** Map<String, String> getParams() **throws** AuthFailureError {  
 Map<String, String> params = **new** HashMap<String, String>();  
  
 *// Adding All values to Params.* String EmailHolder = **email**.getText().toString().trim();  
 String keyHolder = **key**.getText().toString().trim();  
 params.put(**"owner\_mail"**, EmailHolder);  
 params.put(**"assign\_key"**, keyHolder);  
 **return** params;  
 }  
  
  
 };  
 RequestQueue requestQueue = Volley.*newRequestQueue*(ViewDownloadImage.**this**);  
 requestQueue.add(sr);  
  
  
 }