Entidad(Usuario):

|  |
| --- |
| package com.cibertec.examen.entidad; |
|  |  |
|  | public class Usuario { |
|  |  |
|  | private int idusuario; |
|  | private String nombre; |
|  | private String apellido; |
|  | private String dni; |
|  | private String login; |
|  | private String password; |
|  |  |
|  | public int getIdusuario() { |
|  | return idusuario; |
|  | } |
|  |  |
|  | public void setIdusuario(int idusuario) { |
|  | this.idusuario = idusuario; |
|  | } |
|  |  |
|  | public String getNombre() { |
|  | return nombre; |
|  | } |
|  |  |
|  | public void setNombre(String nombre) { |
|  | this.nombre = nombre; |
|  | } |
|  |  |
|  | public String getApellido() { |
|  | return apellido; |
|  | } |
|  |  |
|  | public void setApellido(String apellido) { |
|  | this.apellido = apellido; |
|  | } |
|  |  |
|  | public String getDni() { |
|  | return dni; |
|  | } |
|  |  |
|  | public void setDni(String dni) { |
|  | this.dni = dni; |
|  | } |
|  |  |
|  | public String getLogin() { |
|  | return login; |
|  | } |
|  |  |
|  | public void setLogin(String login) { |
|  | this.login = login; |
|  | } |
|  |  |
|  | public String getPassword() { |
|  | return password; |
|  | } |
|  |  |
|  | public void setPassword(String password) { |
|  | this.password = password; |
|  | } |
|  | } |

Adaptador:

|  |
| --- |
| package com.cibertec.examen.adaptador; |
|  |  |
|  | import android.content.Context; |
|  | import android.content.Intent; |
|  | import android.view.LayoutInflater; |
|  | import android.view.View; |
|  | import android.view.ViewGroup; |
|  | import android.widget.ArrayAdapter; |
|  | import android.widget.TextView; |
|  |  |
|  | import androidx.annotation.NonNull; |
|  | import androidx.annotation.Nullable; |
|  |  |
|  | import com.cibertec.examen.UsuarioActivity; |
|  | import com.cibertec.examen.R; |
|  | import com.cibertec.examen.entidad.Usuario; |
|  |  |
|  | import java.util.List; |
|  |  |
|  | public class UsuarioAdapter extends ArrayAdapter<Usuario> { |
|  |  |
|  | private Context context; |
|  | private List<Usuario> users; |
|  |  |
|  | public UsuarioAdapter(Context context, int resource, List<Usuario> users) { |
|  | super(context, resource, users); |
|  | this.context = context; |
|  | this.users = users; |
|  | } |
|  |  |
|  | @Override |
|  | public View getView(final int pos, @Nullable View convertView, @NonNull ViewGroup parent) { |
|  | LayoutInflater inflater = (LayoutInflater) context.getSystemService(Context.LAYOUT\_INFLATER\_SERVICE); |
|  | View rowView = inflater.inflate(R.layout.activity\_list, parent, false); |
|  |  |
|  |  |
|  | TextView txtId = (TextView) rowView.findViewById(R.id.txtListViewID); |
|  | TextView txtNombre = (TextView) rowView.findViewById(R.id.txtListViewName); |
|  |  |
|  | txtId.setText(String.format("#ID: %d", users.get(pos).getIdusuario())); |
|  | txtNombre.setText(String.format("NOMBRE: %s", users.get(pos).getNombre())); |
|  |  |
|  | rowView.setOnClickListener(new View.OnClickListener() { |
|  | @Override |
|  | public void onClick(View v) { |
|  | Intent intent = new Intent(context, UsuarioActivity.class); |
|  | intent.putExtra("var\_id", String.valueOf(users.get(pos).getIdusuario())); |
|  | intent.putExtra("var\_nombre", users.get(pos).getNombre()); |
|  | intent.putExtra("var\_apellido", users.get(pos).getApellido()); |
|  | intent.putExtra("var\_dni", users.get(pos).getDni()); |
|  | intent.putExtra("var\_login", users.get(pos).getLogin()); |
|  | intent.putExtra("var\_password", users.get(pos).getPassword()); |
|  | intent.putExtra("var\_metodo", "VER"); |
|  | context.startActivity(intent); |
|  | } |
|  | }); |
|  |  |
|  | return rowView; |
|  | } |
|  | } |

Servicio:

|  |
| --- |
| package com.cibertec.examen.servicio; |
|  |  |
|  | import com.cibertec.examen.entidad.Usuario; |
|  |  |
|  | import java.util.List; |
|  |  |
|  | import retrofit2.Call; |
|  | import retrofit2.http.Body; |
|  | import retrofit2.http.DELETE; |
|  | import retrofit2.http.GET; |
|  | import retrofit2.http.POST; |
|  | import retrofit2.http.PUT; |
|  | import retrofit2.http.Path; |
|  |  |
|  | public interface ServicioRest { |
|  |  |
|  | //Crud de Rol |
|  | @GET("usuario") |
|  | public abstract Call<List<Usuario>> listaUsuario(); |
|  |  |
|  | @POST("usuario") |
|  | public abstract Call<Usuario> agregaUsuario(@Body Usuario user); |
|  |  |
|  | @PUT("usuario") |
|  | public abstract Call<Usuario> actualizaUsuario(@Body Usuario user); |
|  |  |
|  | @DELETE("usuario/{idusuario}") |
|  | public abstract Call<Usuario> eliminaUsuario(@Path("idusuario") int id); |
|  |  |
|  | } |

ListActivity:

|  |
| --- |
| package com.cibertec.examen; |
|  |  |
|  | import androidx.appcompat.app.AppCompatActivity; |
|  |  |
|  | import android.os.Bundle; |
|  |  |
|  | public class ListActivity extends AppCompatActivity { |
|  |  |
|  | @Override |
|  | protected void onCreate(Bundle savedInstanceState) { |
|  | super.onCreate(savedInstanceState); |
|  | setContentView(R.layout.activity\_list); |
|  | } |
|  | } |

MainActivity:

|  |
| --- |
| package com.cibertec.examen; |
|  |  |
|  | import androidx.appcompat.app.AppCompatActivity; |
|  |  |
|  | import android.content.Intent; |
|  | import android.os.Bundle; |
|  | import android.util.Log; |
|  | import android.view.View; |
|  | import android.widget.Button; |
|  | import android.widget.ListView; |
|  | import android.widget.Toast; |
|  | import com.cibertec.examen.entidad.Usuario; |
|  | import com.cibertec.examen.adaptador.UsuarioAdapter; |
|  | import com.cibertec.examen.servicio.ServicioRest; |
|  | import com.cibertec.examen.util.ConnectionRest; |
|  |  |
|  | import java.util.ArrayList; |
|  | import java.util.List; |
|  |  |
|  | import retrofit2.Call; |
|  | import retrofit2.Callback; |
|  | import retrofit2.Response; |
|  |  |
|  | public class MainActivity extends AppCompatActivity { |
|  |  |
|  | Button btnAdd; |
|  | Button btnLista; |
|  | ListView listView; |
|  | UsuarioAdapter adaptadorListView; |
|  | ServicioRest servicio; |
|  | List<Usuario> list = new ArrayList<Usuario>(); |
|  |  |
|  | @Override |
|  | protected void onCreate(Bundle savedInstanceState) { |
|  | super.onCreate(savedInstanceState); |
|  | setContentView(R.layout.activity\_main); |
|  |  |
|  | setTitle("Retrofit 2 CRUD Demo"); |
|  |  |
|  | btnAdd = (Button) findViewById(R.id.btnAdd); |
|  | btnLista = (Button) findViewById(R.id.btnLista); |
|  |  |
|  | // Al adaptador se le pasa la data y el diseño |
|  | listView = (ListView) findViewById(R.id.listView); |
|  |  |
|  | // Se crea la conexion al servicio |
|  | servicio = ConnectionRest.getConnection().create(ServicioRest.class); |
|  |  |
|  | btnLista.setOnClickListener(new View.OnClickListener() { |
|  | @Override |
|  | public void onClick(View v) { |
|  | mensaje("Se pulsó el listado"); |
|  | listData(); |
|  | } |
|  | }); |
|  |  |
|  | btnAdd.setOnClickListener(new View.OnClickListener() { |
|  | @Override |
|  | public void onClick(View v) { |
|  | mensaje("Se pulsó el agregar"); |
|  | Intent intent = new Intent(MainActivity.this, UsuarioActivity.class); |
|  | intent.putExtra("var\_metodo", "REGISTRAR"); |
|  | startActivity(intent); |
|  | } |
|  | }); |
|  |  |
|  | //Para cargar los datos al inicio |
|  | listData(); |
|  | } |
|  |  |
|  |  |
|  | public void listData(){ |
|  | Call<List<Usuario>> call = servicio.listaUsuario(); |
|  | call.enqueue(new Callback<List<Usuario>>() { |
|  | @Override |
|  | public void onResponse(Call<List<Usuario>> call, Response<List<Usuario>> response) { |
|  | if(response.isSuccessful()){ |
|  | //Aqui es donde obtiene la data y se coloca en el list |
|  | mensaje("Listado exitoso"); |
|  | list = response.body(); |
|  | adaptadorListView = new UsuarioAdapter(MainActivity.this, R.layout.activity\_list, list); |
|  | listView.setAdapter(adaptadorListView); |
|  | } |
|  | } |
|  |  |
|  | @Override |
|  | public void onFailure(Call<List<Usuario>> call, Throwable t) { |
|  | Log.e("ERROR: ", t.getMessage()); |
|  | } |
|  | }); |
|  | } |
|  |  |
|  | void mensaje(String msg){ |
|  | Toast toast1 = Toast.makeText(getApplicationContext(),msg, Toast.LENGTH\_LONG); |
|  | toast1.show(); |
|  | } |
|  | } |

UsuarioActivity

|  |
| --- |
| package com.cibertec.examen; |
|  |  |
|  | import android.content.Intent; |
|  | import android.os.Bundle; |
|  | import android.util.Log; |
|  | import android.view.MenuItem; |
|  | import android.view.View; |
|  | import android.widget.Button; |
|  | import android.widget.EditText; |
|  | import android.widget.TextView; |
|  | import android.widget.Toast; |
|  |  |
|  | import androidx.appcompat.app.AppCompatActivity; |
|  | import com.cibertec.examen.entidad.Usuario; |
|  | import com.cibertec.examen.servicio.ServicioRest; |
|  | import com.cibertec.examen.util.ConnectionRest; |
|  |  |
|  | import retrofit2.Call; |
|  | import retrofit2.Callback; |
|  | import retrofit2.Response; |
|  |  |
|  | public class UsuarioActivity extends AppCompatActivity { |
|  |  |
|  | ServicioRest servicio; |
|  | EditText edtUId, edtNombre,edtApellido,edtDni,edtLogin,edtPassword; |
|  | Button btnSave; |
|  | Button btnDel; |
|  | TextView txtUId; |
|  | final String metodo = ""; |
|  |  |
|  | @Override |
|  | protected void onCreate(Bundle savedInstanceState) { |
|  | super.onCreate(savedInstanceState); |
|  | setContentView(R.layout.activity\_usuario); |
|  |  |
|  | setTitle("CRUD de Rol"); |
|  | getSupportActionBar().setDisplayHomeAsUpEnabled(true); |
|  |  |
|  | txtUId = (TextView) findViewById(R.id.txtIdUsuario); |
|  | edtUId = (EditText) findViewById(R.id.edtIdUsuario); |
|  | edtNombre = (EditText) findViewById(R.id.edtUsuarioNombre); |
|  | edtApellido = (EditText) findViewById(R.id.edtUsuarioApellido); |
|  | edtDni = (EditText) findViewById(R.id.edtUsuarioDni); |
|  | edtLogin = (EditText) findViewById(R.id.edtUsuarioLogin); |
|  | edtPassword = (EditText) findViewById(R.id.edtUsuarioPassword); |
|  | btnSave = (Button) findViewById(R.id.btnPaisSave); |
|  | btnDel = (Button) findViewById(R.id.btnPaisDel); |
|  |  |
|  | servicio = ConnectionRest.getConnection().create(ServicioRest.class); |
|  | Bundle extras = getIntent().getExtras(); |
|  | final String metodo = extras.getString("var\_metodo"); |
|  | final String var\_id = extras.getString("var\_id"); |
|  |  |
|  | if (metodo.equals("VER")) { |
|  | String var\_nombre = extras.getString("var\_nombre"); |
|  | String var\_apellido = extras.getString("var\_apellido"); |
|  | String var\_dni = extras.getString("var\_dni"); |
|  | String var\_login = extras.getString("var\_login"); |
|  | String var\_password = extras.getString("var\_password"); |
|  |  |
|  | edtUId.setText(var\_id); |
|  | edtNombre.setText(var\_nombre); |
|  | edtApellido.setText(var\_apellido); |
|  | edtDni.setText(var\_dni); |
|  | edtLogin.setText(var\_login); |
|  | edtPassword.setText(var\_password); |
|  | edtUId.setFocusable(false); |
|  | }else if (metodo.equals("REGISTRAR")) { |
|  | txtUId.setVisibility(View.INVISIBLE); |
|  | edtUId.setVisibility(View.INVISIBLE); |
|  | btnDel.setVisibility(View.INVISIBLE); |
|  | } |
|  |  |
|  | btnSave.setOnClickListener(new View.OnClickListener() { |
|  | @Override |
|  | public void onClick(View v) { |
|  |  |
|  | Usuario u = new Usuario(); |
|  | u.setNombre(edtNombre.getText().toString()); |
|  | u.setApellido(edtApellido.getText().toString()); |
|  | u.setDni(edtDni.getText().toString()); |
|  | u.setLogin(edtLogin.getText().toString()); |
|  | u.setPassword(edtPassword.getText().toString()); |
|  | if (metodo.equals("VER")) { |
|  | u.setIdusuario(Integer.parseInt(var\_id)); |
|  | mensaje("Se pulsó actualizar"); |
|  | update(u); |
|  | } else if (metodo.equals("REGISTRAR")) { |
|  | mensaje("Se pulsó agregar"); |
|  | add(u); |
|  | } |
|  |  |
|  | Intent intent = new Intent(UsuarioActivity.this, MainActivity.class); |
|  | startActivity(intent); |
|  | } |
|  | }); |
|  |  |
|  | btnDel.setOnClickListener(new View.OnClickListener() { |
|  | @Override |
|  | public void onClick(View v) { |
|  | mensaje("Se pulsó eliminar"); |
|  | delete(Integer.parseInt(var\_id)); |
|  | Intent intent = new Intent(UsuarioActivity.this, MainActivity.class); |
|  | startActivity(intent); |
|  | } |
|  | }); |
|  | } |
|  |  |
|  | public void add(Usuario u) { |
|  | Call<Usuario> call = servicio.agregaUsuario(u); |
|  | call.enqueue(new Callback<Usuario>() { |
|  | @Override |
|  | public void onResponse(Call<Usuario> call, Response<Usuario> response) { |
|  | if (response.isSuccessful()) { |
|  | mensaje("Registro exitoso"); |
|  | } |
|  | } |
|  | @Override |
|  | public void onFailure(Call<Usuario> call, Throwable t) { |
|  | Log.e("ERROR: ", t.getMessage()); |
|  | } |
|  | }); |
|  | } |
|  |  |
|  | public void update(Usuario u) { |
|  | Call<Usuario> call = servicio.actualizaUsuario(u); |
|  | call.enqueue(new Callback<Usuario>() { |
|  | @Override |
|  | public void onResponse(Call<Usuario> call, Response<Usuario> response) { |
|  | if (response.isSuccessful()) { |
|  | mensaje("Actualización exitosa"); |
|  | } |
|  | } |
|  | @Override |
|  | public void onFailure(Call<Usuario> call, Throwable t) { |
|  | Log.e("ERROR: ", t.getMessage()); |
|  | } |
|  | }); |
|  | } |
|  |  |
|  | public void delete(int id) { |
|  | Call<Usuario> call = servicio.eliminaUsuario(id); |
|  | call.enqueue(new Callback<Usuario>() { |
|  | @Override |
|  | public void onResponse(Call<Usuario> call, Response<Usuario> response) { |
|  | if (response.isSuccessful()) { |
|  | mensaje("Eliminación exitosa"); |
|  | } |
|  | } |
|  | @Override |
|  | public void onFailure(Call<Usuario> call, Throwable t) { |
|  | Log.e("ERROR: ", t.getMessage()); |
|  | } |
|  | }); |
|  | } |
|  |  |
|  | @Override |
|  | public boolean onOptionsItemSelected(MenuItem item) { |
|  | switch (item.getItemId()) { |
|  | case android.R.id.home: |
|  | finish(); |
|  | return true; |
|  | } |
|  |  |
|  | return super.onOptionsItemSelected(item); |
|  | } |
|  |  |
|  | void mensaje(String msg) { |
|  | Toast toast1 = Toast.makeText(getApplicationContext(), msg, Toast.LENGTH\_LONG); |
|  | toast1.show(); |
|  | } |
|  |  |
|  | } |