

Assignment 3: Android App

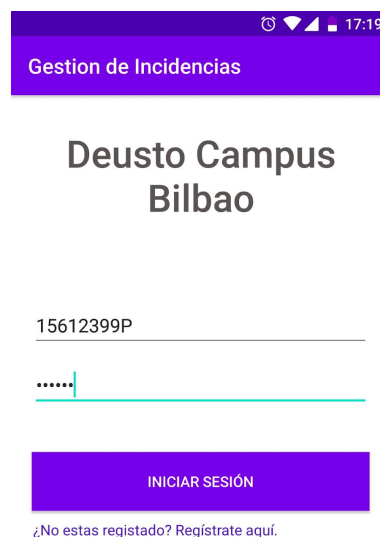
Deusto University Incidence Manager

1. Introduction

My android app is a simple but very useful incidence manager app for the University of Deusto. The app consists in six user interfaces and the idea is to allow the students, professors and any other person that belongs to the university to communicate with the beadies when something needs to be fixed in any faculty.

2. User Interfaces

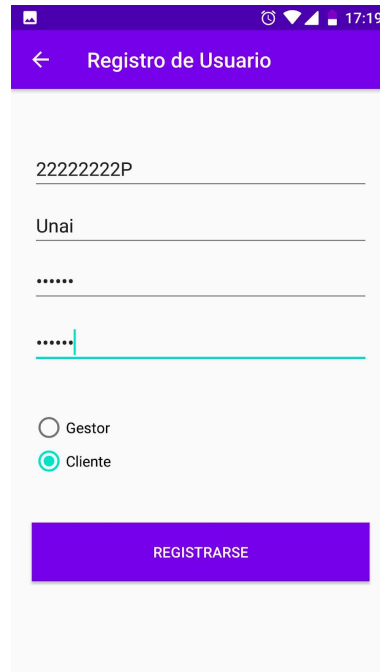
2.1. MainActivity



- Allows the user to login

- Allows the user to register if it is not registered yet by clicking the “¿No estas registrado? Registrate aqui” hyperlink.

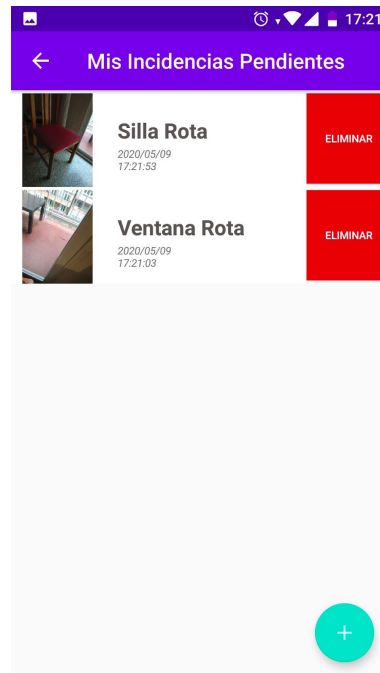
2.2. RegisterActivity



The screenshot shows a mobile application interface for user registration. At the top, there is a purple header bar with a back arrow and the text "Registro de Usuario". Below the header, the form contains four input fields: a DNI field with the text "22222222P", a username field with the text "Unai", a password field with masked characters "*****", and a second password field with masked characters "*****" and a red underline. Below the password fields, there are two radio button options: "Gestor" (unselected) and "Cliente" (selected). At the bottom of the form is a purple button labeled "REGISTRARSE". The background of the form is light gray, and the overall app theme is purple and white.

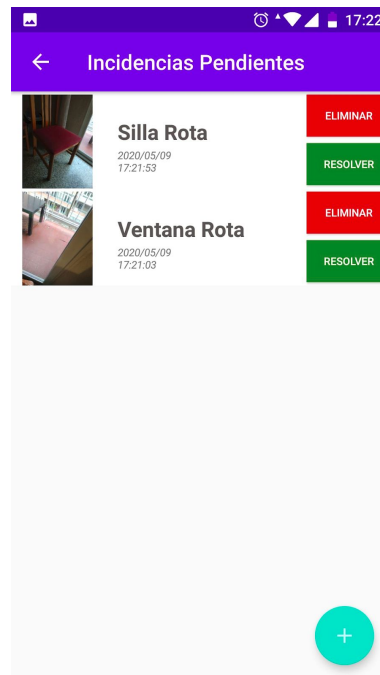
- Allows the user to register by inserting a DNI, username, password and choosing the type of user.
- The data inserted into the form is validated before registering the new user.

2.3. ClientActivity



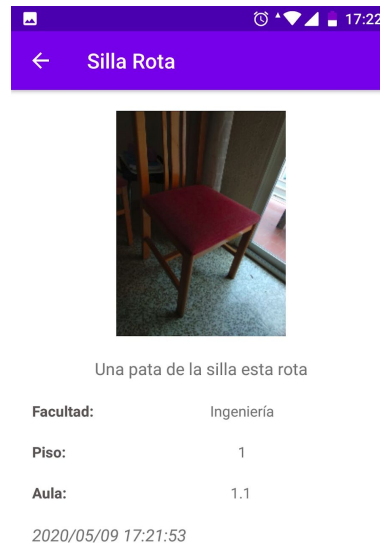
- This is the profile of a client type user. In this activity, the user can see his pending inserted incidences, delete them, see the details or insert new incidences by clicking the floating button.
- A RecyclerView is used for creating the dynamic incidence list.

2.4. GestorActivity



- This is the profile of a gestor type user. In this activity, the user can see all the pending inserted incidences of the app, delete them, solve them, see the details or insert new incidences by clicking the floating button.
- A RecyclerView is used for creating the dynamic incidence list.

2.5. IncidenceActivity



- This interface is shown when any user clicks an incidence of his dynamic incidence list.
- In this interface, the user can see all the details of the incidence such as the topic, description, faculty, floor, room and incidence creation date.

2.6. NewIncidenceActivity

The image shows two screenshots of a mobile application interface for creating a new incidence. Both screenshots have a purple header bar with a back arrow and the title 'Nueva Incidencia'.

Left Screenshot (17:20):

- Title: Ventana Rota
- Photo: A photo of a broken window.
- Button: **AÑADIR FOTO**
- Description: La ventana esta rota por la parte de la d

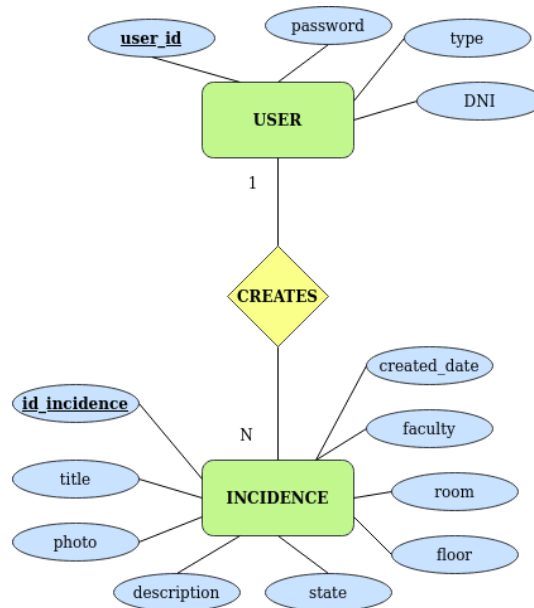
Right Screenshot (17:21):

- Button: **AÑADIR FOTO**
- Description: La ventana esta rota por la parte de la d
- Floor: 3
- Room: 3.1
- Faculty: Ingeniería
- Button: **AÑADIR INCIDENCIA**

- This interface is shown when a user clicks the floating button of his profile to create a new incidence.
- The user can create a new incidence filling this form with the title of the incidence, a photo, a description and the floor, room and faculty in which the incidence has happened.
- The data inserted into the form is validated before adding the new incidence.

3. Local SQLite Database

3.1. Entity - Relation Diagram



3.2. Tables

USER		
Attribute Name	Data Type	Special
user_id	INTEGER	AUTOINCREMENT PRIMARY KEY
password	TEXT	-----
type	INTEGER	-----
DNI	TEXT	UNIQUE

INCIDENCE		
Attribute Name	DataType	Special
id_incidence	INTEGER	AUTOINCREMENT PRIMARY KEY
title	TEXT	-----
photo	TEXT	-----
description	TEXT	-----
state	INTEGER	-----
floor	INTEGER	-----
room	TEXT	-----
faculty	TEXT	-----
created_date	TEXT	-----
dni_user_created	INTEGER	FOREIGN KEY REFERENCES USER user_id