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**Date:** 9/05/2020

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 beadles when something needs to be fixed in any faculty.
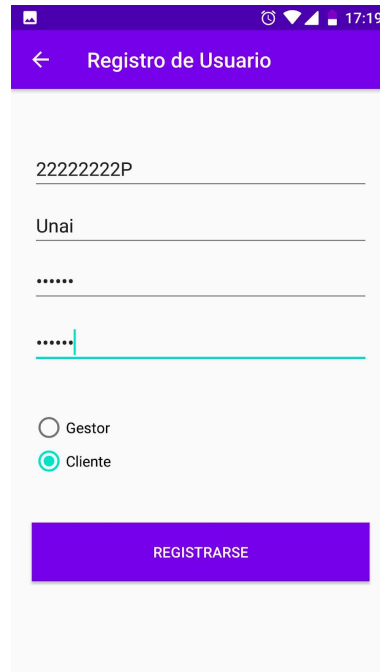
2. User Interfaces

2.1. MainActivity
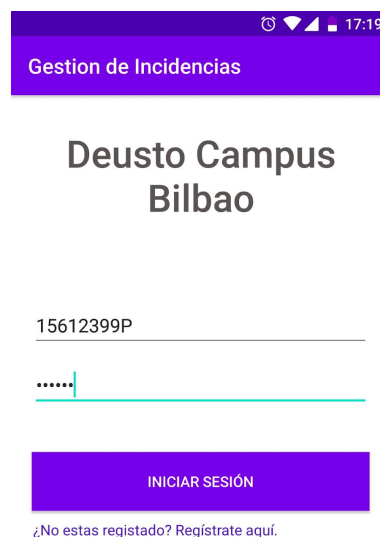
- Allows the user to login

● Allows the user to register if it is not registered yet by clicking the "¿No estas registrado? Registrate aquí" hyperlink.
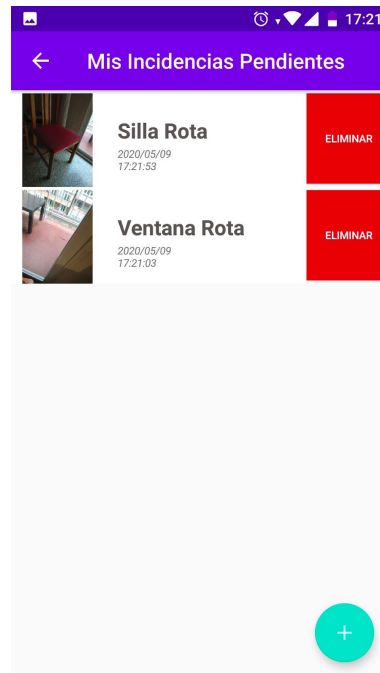
2.2. RegisterActivity

● 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.

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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.

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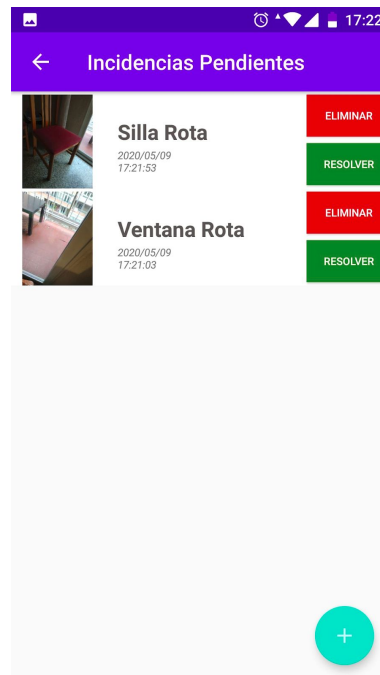
2.4. GestorActivity

- 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.

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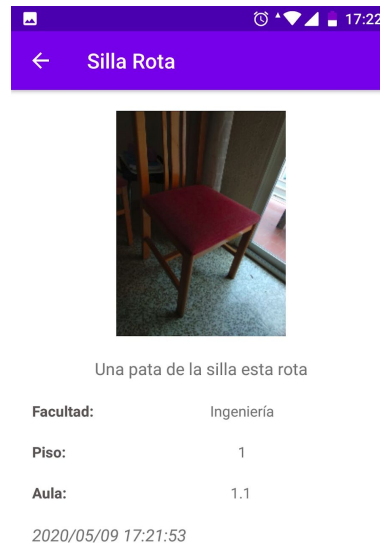
- This interface its shown when any user clicks an incidence of his dynamic incidence list.
- In this interface, the user can see all the details of the incidence such as the topic, description, faculty, floor, room and incidence creation date.

2.6. NewIncidenceActivity

- This interface its 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.

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3. Local SQLite Database

3.1. Entity - Relation Diagram
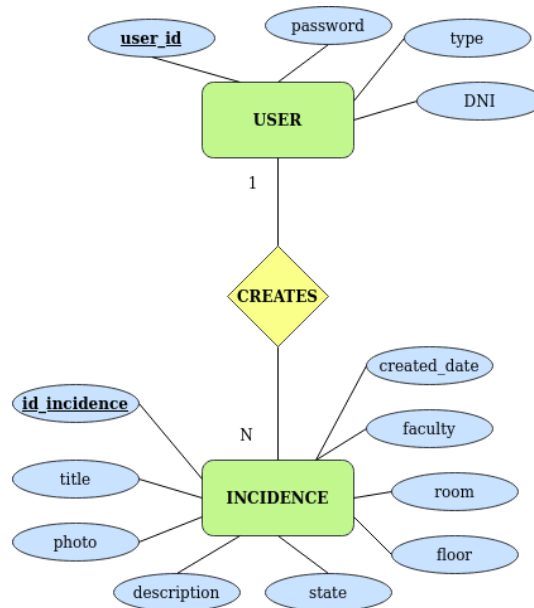
3.2. Tables

USER		
Attribute Name	**DataType**	**Special**
user_id	INTEGER	AUTOINCREMENT PRIMARY KEY
password	TEXT	-------------------------------------
type	INTEGER	-------------------------------------
DNI	TEXT	UNIQUE

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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