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| Report |
| Project DATABANK AND WEBTECHNOLOGIE 2021-2022 |
| Baris Sahan,  Industriële wetenschappen |

# Introduction

My project is an application in the form of a website. My website has the following functionalities:

* Administrator, users and teacher can log in with given ID and password
* Administrator can create courses or delete them.
* Administrator can assign courses to teachers and users.
* Teachers can organize classes and see who is present for this class
* Users can see their classes for their assigned courses.
* Users can register their presence for classes.

# ER diagram

Diagram

Description automatically generated

# API

## Login

Every time a User, admin or teacher logs in with their details the system will check if these details match certain data in databank.

ID and password are given by user. We get data like this request.form["ID"] from our html.



In this code we are looking if the inputted data (ID and password) is in our databank(userid). If they are not in it, they will enter the if statement. Otherwise, they will enter else statement and thus be redirected to their desired page. We can also see that we are creating a session so we can pass data between pages and so that no one can access certain pages.

## User page

In our users page users can see their classes. Also from this page users can register their presence with random code. The following piece of code shows how the system handles it.



We see that if we enter a valid code they will be removed from the absence and added to presence.

## Teacher page

In our teacher page teachers can create classes for their classes. These classes have a class name, location, date, course name and random code. The following code shows how it’s done.



Every time a teacher creates a class, we want to make sure that the random code does not have duplicate one. So, we will check if the rndcode generated exist in our randomcodearray. If it does it will enter the if statement where the class is added to databank. Also every time a class is created the users of this class are put to absence so that the users have to register their presence if they don’t they stay in absence. Teachers can also see the presence table of the class. With the same method as above the system will check into the databank with the given random code and retrieve it. If it exist teachers will be redirected to the presence page where all of the users presence are tabled.

## Admin page

An admin has the power to create courses and also delete them.



When the create button is pressed in enters the if statement where the courses is committed to the databank.

Admin can also assign users and teachers to courses.



When the assign button is pressed the system will look if the ID that will be assigned to the course exists in databank(teacherid). If it exist it will assign the teacher ID to course.