**The Attendance Register:**

A simple and easy to use app the register attendance of students

Members of Team 2 :

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Description of the project:

**The team 2 is building an open-source app that allows teachers of a specific school to register the attendance of the students in an easy and simple way.**

**This is a school app used to store all information’s of the classes and students, and that allow teachers to manage online register.**

**The end user are the teachers and the client of the product is a school interested in using the app.**

**Purpose of the App:**

**Most of the apps that schools have right now have lots of options and look complicated for teachers as well. The app that we provide is simple, fast and have just view options but important for the teacher to be able to report attendance of students on an everyday basic allowing teacher to focus on the lessons instead of wasting time on the app itself.**

**Key features of the system?**

1. **End User can login true a registration process.**
2. **End User can view all the classes that he/she teaches on the main area**
3. **End User can open a class and:**
   1. **Complete attendance register of the day**
   2. **Add notes about a student**
   3. **Add stars on a student**
   4. **End of the month the register can be downloaded as document**
   5. **Check history of register ( present Academic year history only, no previous years)**
4. **Raise alert if at noon no registration have been filled for that class.**
5. **Download of monthly attendance per class or per student**

**Flow Diagram to describe the system architecture:**

**Diagram

Description automatically generated**

Team Approach for the project realization:

* **All the files and code is going to be posted on a repository on GitHub**.
* We are going to use Agile methodology
* The workload is going to be selected by each person discussing it in the meeting ( on zoom). Knowing the tasks that we have each person can decide what they can help with knowing their strengths.
* Managing your code
  + Version control for all the code : on GitHub will have repository
  + Backend on python ( Object Oriented Programming)
  + Database : MySQL
  + API to check for the project
    - For academic calendar: The Cronofy Calendar API or UH Calendar API or using Date and Time Data Types or Google Calendar
    - CLASSROOM Google API
    - Gov.uk API provided for attendance : Attendance API to allow schools to submit attendance data
* For testing who write a class and functions in it is expected to conduct unit testing on it as well.
  + Exception Handling and assertions
  + Unit testing
  + Debugging
  + Manual testing before releasing the product