Attendance Checker
Project Description

Submitted to:

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Unique Reference:

The documents are stored in the GitHub Repository Link below.

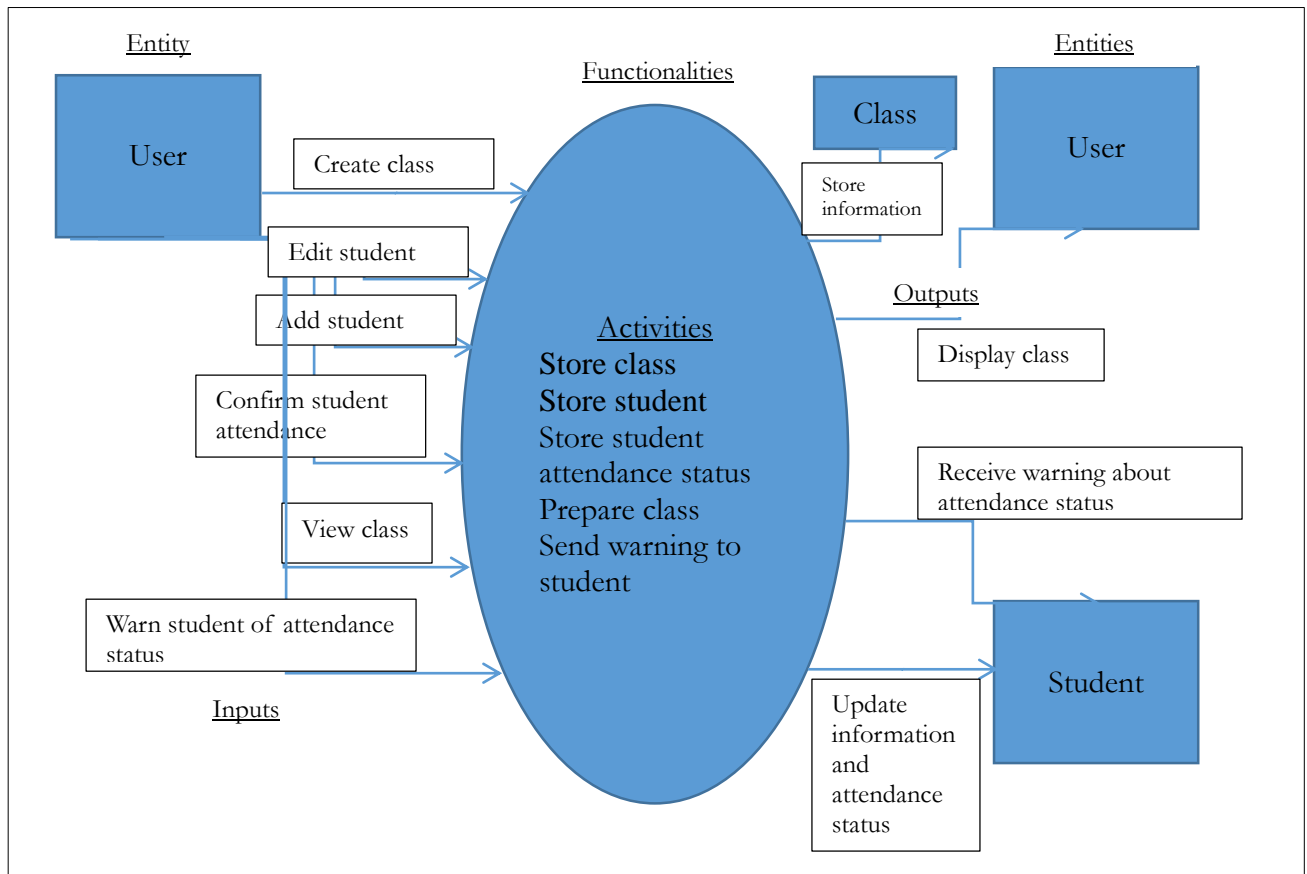https://github.com/CrowCakes/Attendance-Checker

Document Purpose:

This document describes the project and its functionalities.

Target Audience:

This document is meant to be read by the project developers and their professor.

Revision Control:

Revision Date	Person Responsible	Version Number	Modification
09/05/16	Jeremy Micah Choa	1.0	Initial Document; Version number should match the one below.
09/15/16	Jeremy Micah Choa	1.1	Filled in the context diagram and its elaborations, updated project description

Context Diagram

Entity

User

Create class

Edit student

Add student

Confirm student attendance

View class

Warn student of attendance status

Inputs

Functionalities

Activities
Store class
Store student
Store student attendance status
Prepare class
Send warning to student

Class

Store information

Entities

User

Outputs

Display class

Receive warning about attendance status

Update information and attendance status

Student

Project Title: Attendance Checker

Description: The Attendance Checker allows the user (an instructor) to create a list of their students, input student information and class attendance, and view the class attendance. Additionally, Attendance Checker provides the number of tardy attendances and absences from the attendance list; from this, the user can send warnings to the students concerned. This software's goal is to be a more convenient alternative to listing down class attendance with paper and pen.

Context Diagram: (illustrated above)

(Note: the proceeding entries use "attendance status" to mean "attendance record.")

Entities:

User: The user of the software. Necessary to the system as the only one who provides input regarding students' attendance status and information. Can also warn students regarding their attendance status.

Student: The people whose attendance needs to be checked by the user. They possess student information (name, student number, contact detail) and attendance statuses.

Class: An entity that represents the classes the user maintains. It possesses dates and students.

Major Inputs:

Create class: The user can create a class by inputting its name and sessions. Additionally, students can be added to the schedule.

Add student: The user can input a student and supply their name, student number, and contact detail, then adding them to a class.

Edit student: The user can edit the student information associated with a student.

Confirm student attendance: The user can input a student's attendance in their class on a certain session: whether they were present, absent, or tardy.

View class: The user can access the students' attendance information on the class's sessions and also their name, student number, and contact detail.

Warn student of attendance status: The user can send a message to their students regarding their attendance status.

Major Outputs:

Store information (class): The software stores class information to its associated class.

Display class: The software displays to the user a class, complete with its students and their student information and attendance status for its sessions.

Update information and attendance status: The software stores the user-inputted student information and attendance status to the associated student.

Receive warning about attendance status: The student receives a message through their contact detail regarding their attendance status.

Major Functionalities:

Store class: The software keeps the created class to the list of classes.

Store student: The software keeps the created student to a class.

Store student attendance status: The software keeps the attendance status of a student within a class.

Prepare class: The software organizes the class for viewing. Aside from organizing its students with their student information and attendance status, it also determines the number of absences and "tardies" of the students for the user.

Send warning to student: The software sends a template message warning the student of their attendance status. This is done using the contact detail associated with the students.