Assignment Chapter 3

A screenshot of a cell phone

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Main Objective:

Record the absences for the classroom teacher, for school reports, and for statistics given to the Department of Education

User Tasks:

Record Absence into database. Report absence to classroom teacher. Send Statistics to Department of Education. Report Absence to Sports Teacher

Data Association for Each Job:

Recording Absences – Student I.D., Number of Absences, Student Name, Phone Number of Parent, Current Term

Reporting Absence to Teacher – Student Name, Classroom Teacher, Email of Teacher, Student I.D., Current Term

Sending Statistics to Department of Education- Number of Absences, Student I.D., Current Term

Input Use Cases Sketch:

A picture containing text, athletic game

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* Use case 1: Record Absence. Report Information to Absence Database ( Student I.D., Current Term, Number of Absences)
* Use Case 2: Send Request to Automated Email System to Notify Teachers. Enter Student Information (Student I.D.) and then the automated email system will see what the students information(Club Affiliation, Course I.D.) and then will search for the Classroom Teacher in courses(Course I.D., Teacher Name) and will then email the Classroom Teacher
* Use Case 3: Request Teacher Information. The automated email system will take the Student I.D. and use that to search the students information(Club Affiliation, Course I.D.) and then will search for the Classroom Teacher in courses(Course I.D., Teacher Name) and will then email the Classroom Teacher. If the student has a club affiliation, then it will also notify the Sports Teacher

First Data Model:

Diagram

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Output Use Cases Sketch:

A picture containing text, athletic game, sport

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Use Case 1: Absence Report to the Department of Education

For All Absences in one term:

* Search the Absence Database for all absences during the current term
* If required, calculate the total number of absences by adding up all values in the column
* If required, separate by Student I.D.

Use Case 2: Absence Report for Report Cards

For all Absences in one term:

* Using a Students I.D. search for the amount of absences they have during the current term
* If required, Calculate the total number of absences for that student in the school year

Use Case 3: Send Email to Classroom Teacher

For Each Absence recorded:

* Use Student I.D. to search for Course I.D.
* Use Course I.D. to search for what Classroom Teacher is assignment to that I.D.
* Use the Classroom Teacher information to search for their email.
* Send Automated Email Notifying Classroom Teacher of Absence

Use Case 4: Send Email to Sports Teacher

For Each Absence Recorded:

* Use Student I.D. to search for Club Affiliation
* If student is in a Club, then search Teacher Database for the Sports Department
* Find email of Sports teacher
* Send Automated Email notifying Sports Teacher of Absence