2022

Application Development Practice 3

MEMBERS:

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Domain problem

ABC High School still makes use of an old bookkeeping system where the details of students, teachers, and other admin details are stored in files and then stored in a storeroom. This has resulted in some information going missing when teachers look for subject details and does not return the file or when a parent wants to have a look at their child's (student) performance, but the students file has not been updated by the teachers. This issue has caused issues for the school as proper bookkeeping is not being done and the school admin cannot keep track the of the students and teachers are the school.

To over come this problem, it has been suggested that the school move over to storing all this information in a database management system where details are created, retrieved, updated, and deleted.

System requirements

The system must be able to store student details, parent details, teacher details, subjects done at the school, extra mural activities, etc.

Entities

- **Student – Marvin**
  - studentID
  - parentID
  - adminID
  - stuName
  - stuSurname
  - grade
  - dob
  - idNumber
  - address
  - importantInfo
  - stuAverage

- **Parent – Marvin**
  - parentID
  - studentID
  - parName
  - parSurname
  - cellNumber
  - email

- **Teacher – Jayden**
  - teacherID
  - adminID

- o subDeptID
- o teachName
- o teachSurname
- o cellNum
- o qualification
- o importantInfo
- o post

- **Subject – Jayden**
  - o subjectID
  - o studentID
  - o subDeptID
  - o modules
  - o subaverage
  - o stuAverage

- **Sport – Siyabonga**
  - o sportID
  - o studentID
  - o teacherID
  - o typeofSport
  - o performance

- **Admin/ School management – Siyabonga**
  - o adminID
  - o bankingDetails

- **Culture - Kegomoditswe**
  - o cultureID
  - o studentID
  - o typeofCulture

- **Student prestige - Kegomoditswe**
  - o prestigeID
  - o academicID
  - o studentID
  - o sportID
  - o cultureID
  - o typeofCulture

- **Transport – Ra'eesah**

- o transportID
- o studentID
- o suppStaffID
- o typeofTransport

- **Subject department – Ra'eesah**
  - o SubDeptID
  - o subjectID
  - o teacherID
  - o typeofDepartment

- **Support staff – Tiffany**
  - o suppStaffID
  - o adminID
  - o typeofWork
  - o suppStaffName
  - o suppStaffSurname
  - o cellNumber
  - o importantInfo
  - o qualification

- **Fees – Tiffany**
  - o feesID
  - o studentID
  - o adminID
  - o parentID
  - o amount

UML