Qingdao University want to create a student management system to be used by the student managers. As developer, you need to create a student management system using that should have the following features.

1. Student Database (To store student details) such as:

Table: Student

* 1. Enrollment Number (Must be Unique)
  2. First Name
  3. Last Name
  4. Gender (Can either be male or female)
  5. Course\_major
  6. Date of Birth (Date of birth must be after 1990)
  7. E-mail (Must be unique) and not null
  8. Mobile Number (Must be unique and not null)
  9. Address
  10. Province
  11. City
  12. Pin
  13. QQ ID (can be null)
  14. National\_ID (Not null and must be 10 digits)
  15. Father Name
  16. Father Mobile Number (must be 11 digits)
  17. Father Occupation

Requirements for Table Student:

* The user should be able to select List of cities , province from the drop down list
* The user should be able to select list of occupations from the drop down list
* The user should be able to select list of course major from the drop down list
* User Radio button to select gender
* Query:
  + Search First Name, Last Name, Major, QQ, Phone, Email based on the Enrollment number
  + Search First Name, Last Name, Major, QQ, Phone, Email based on the Mobile Number
  + Search First Name, Last Name, Major, QQ, Phone, Email based on the National ID
  + Search First Name, Last Name, Major, QQ, Phone, Email based on email account

1. Table : Semester\_Result
   1. Enrollment\_Number
   2. Semester\_Number
   3. Subject\_Number
   4. Score\_Obtained

Requirement:

* Roll number should automatically be suggested by the application as the user start typing in the combo box
* User should be able to select Semester number from the drop down list
* User should be able to select Semester Course Number from the drop down list
* Score obtained must be >=0 and <=100

1. Table Subject
   1. Subject\_Number
   2. Subject\_Name
   3. Semester\_Number

Requirement:

* Semester must be between 1 to 8 only
* Search Subject name, semester number based on the Subject number

1. Table Users
   1. User\_Id
      1. For Student, the user id must be Enrollment Number
      2. For Teacher, the user id must be Teacher ID
   2. User\_Password
      1. For student, the password Must be student FirstName
      2. For teacher, the password must be teacher firstname
   3. User type
      1. Can only be 3 types they are student, teacher, administrator
      2. A student can only see his details and the results and can only modify the following from the personal details
         1. Update his Mobile number
         2. Update his Email
         3. Update Father Number
      3. The student can not update anything from the semester result
2. Table Teacher
   1. Teacher\_Id
   2. Teacher\_Name
   3. Qualification

Requirements:

* User Id must be unique
* Type of users can only be Student and the Teacher

Other Requirements:

1. User or student can register and login to the system from the Home Page
2. A user student can only used
3. Create a Master-Detail form to be able to show the Student Data and their Semester Results
4. User should be able to ADD DATA, UPDATE DATA, DELETE DATA, READ DATA from different tables based on the requirements
5. Use Logo on the Home Page

Student can think of any other feature to make the project more interactive and functional.

Need to create:

1. Oracle Database
2. ADF Application
3. Apex Application