STUDENT MANAGEMENT APPLICATION



**Thank for Teacher Guider Nguyen Quoc Nguyen, Center Softech-Aptech and members of group helped to complete successfully this project !**

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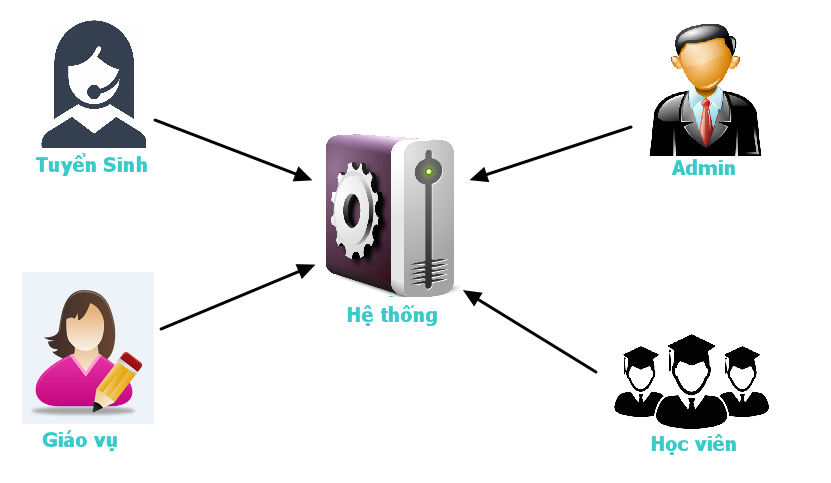
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6. Definition of the Problem :
   1. Need :

At the Softech - Aptech programmer training center, the number of students with a large volume of information is increasing and management increasingly difficult. The need for a software to manage information related to students are essential. The Application of new technologies to solve the problem brings many advantages compared to a system of the present paper, ensuring a smooth and consistent flow of information in the system .

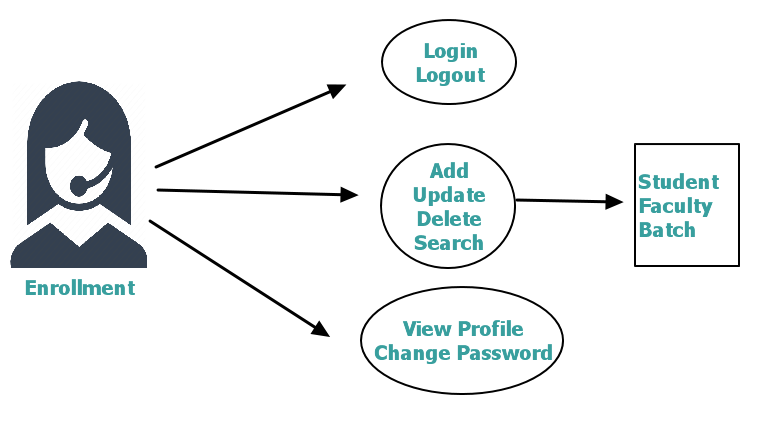
* 1. Overview of the solution :
* Modeling the objects of the issue into Database follow direction with the Real-World .
* Easily manipulate , handle, caculator, add new, edit, update, storage, ...
* Manage your data in the relational model is based on the table to bring the integrity and synchronization of data .
* Encapsulation data, and authorization access to solve issues of data security.
* Design each Modul of each object type and function offer easly maintenance and repair later.
* Interface optimized and is suitable for the use and management .
* Optimize new technology to bring a quality product with reasonable price.

1. Requirement analysis :
   1. List of inputs to the system :
   * Student information : Name, DoB, Address, Gender , Phone number, Email, Image, …
   * Account information : UserName, Password, DoB, Gender, Email, Last login,…
   * Program information : ID, Name .
   * Batch information : ID, Name, Start date, End date, Schedule …
   * Faculty information : ID, Name, DoB, Address, Gender, Phone number …
   * Score information: StudentID, CourseID, E-test, R-test,…
   * Course information : CourseID, Name, Semester, Theory hour, Lab hour, …
   * Lab Information : LabID, Name, Status .
   * Schedule information : ID, Start date, End date, Batch, Lab, Faculty, …
   * FeedBack information : ID, Student, Date, Subject, Note, …
   1. List of outputs expected from the system :
   * Tables data of process Add, Update, Delete, Search, … information .
   * Fields data of process Add, Update, Delete, Search, … information .
   1. Overview of process involved in the system :
   * Add .
   * Update .
   * Delete .
   * Search .
   * Login .
   * Logout .
   * FeedBack .
   * Change Password .
   * Permission .



* 1. Use case and Actors :

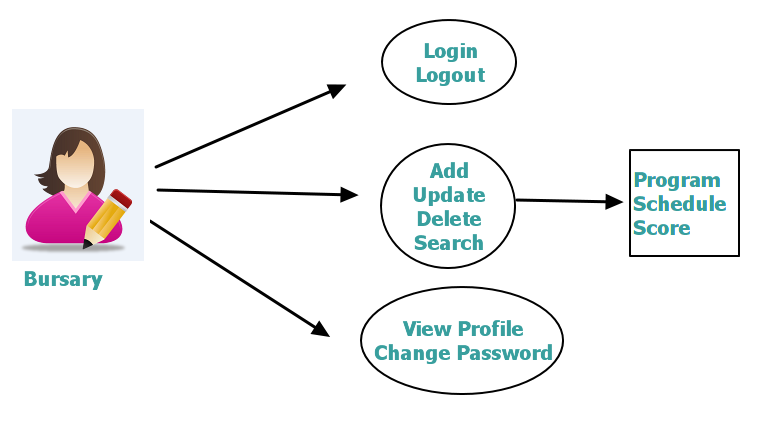
1. Entollment :



**.** **Describe process :**

* The first : Enrollment login into system with UserName and Password of oneself, what allocated by Admin and use only function of Enrollment .
* After login into system, Enrollment can only Add, Update, Delete, Search information of Student , Batch, Faculty .
* Next Enrollment allocate for Student an Account to login into system .
* Enrollment can view profile of oneself .
* The end, Enrollment can change password if essential, and logout system .

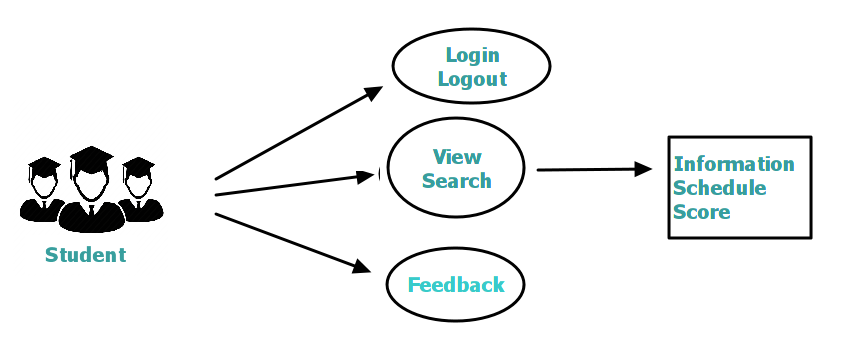
1. Bursary :



**. Describe process :**

* The first : Bursary login into system with UserName and Password of oneself, what allocated by Admin and use only function of Bursary .
* After login into system, Bursary can only Add, Update, Delete, Search information of Program , Schedule, Score .
* Bursary can view profile of oneself .
* The end, Bursary can change password if essential, and logout system .

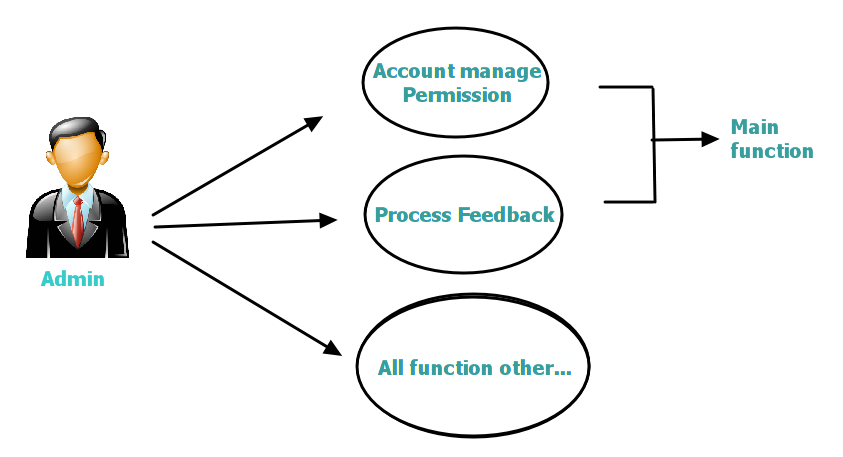
1. Student :



**. Describe Process :**

* The first : Student login into system with UserName and Password of oneself, what allocated by Enrollment and use only function of Student.
* After login into system, Student can only View, Search information, Schedule, Score of oneself .
* Student can send Feedback to Admin with permission Public, Private, Alias .
* The end, Student can change password if essential, and logout system .

1. Admin :



**. Describe Process :**

* The first : Admin login into system with UserName and Password of oneself .
* After login into system, Admin can View, Search information Account, Feedback of all actor in system . ( main function )
* Also, Admin can handle all function other in system .( sub function )
* The end, Admin can change password if essential, and logout system .
  1. Hardware and software required for implementing the project .

1. Hardware :

* Compatible with almost all computer config type present .

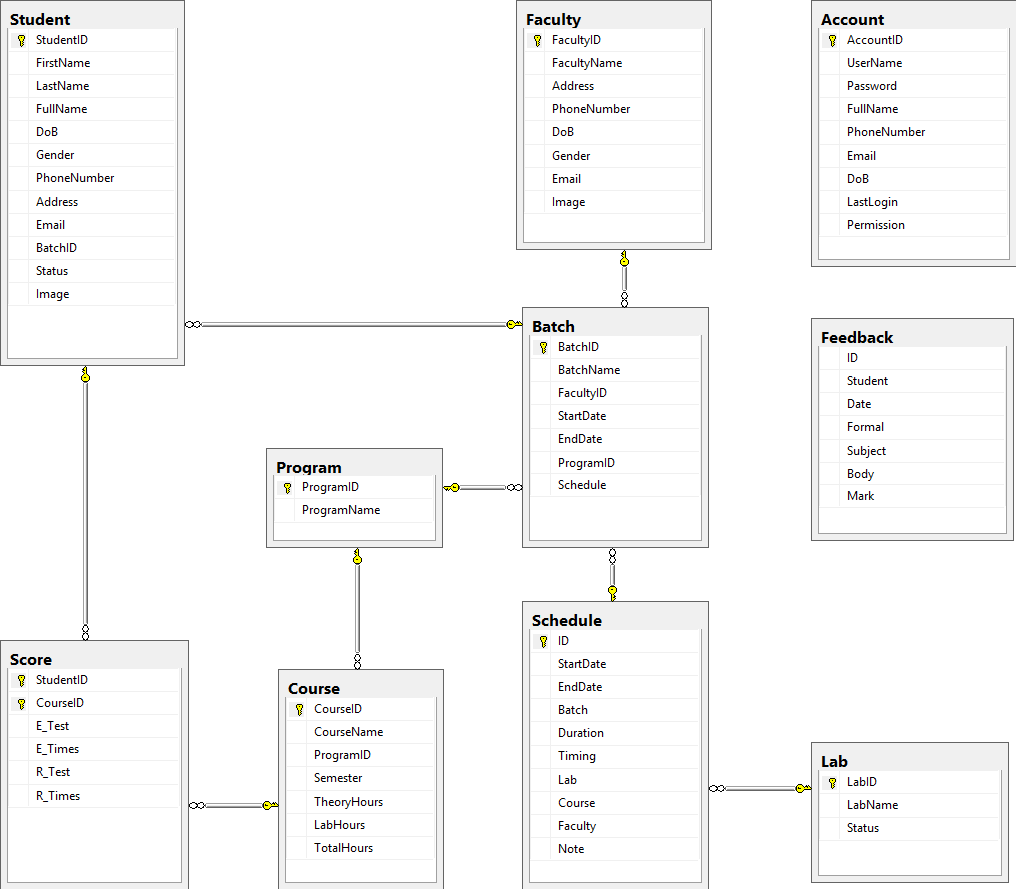
1. Sofware :

* Here is java application, therefore it can run on all platform, but it required install JVM ( Java Virtual Machine ) .
* Over SQL server 2012 .

1. Design :

3.1 Design Database :

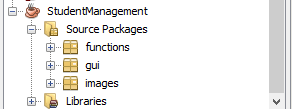
* Database comprisse 10 tables, what constrainted by Foreign-key constraints .
* Every table is a entity set of objects in system, comprise a Primary-key and properties .



3.2 Design Interface, Function modules, Code criteria :

- Inherit Interfaces of J2SE .

- Functions divided three modules : Function, Gui, Image .

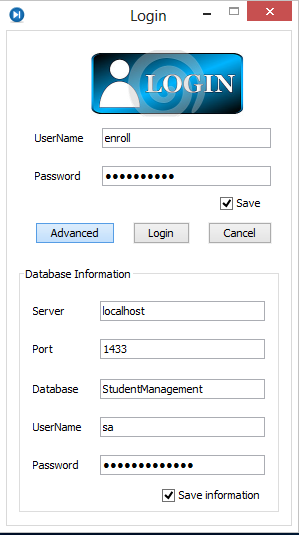


* Code criteria : . Method name and variant name follow rule unite .

. Name easy remember .

3.3 Design GUIs :

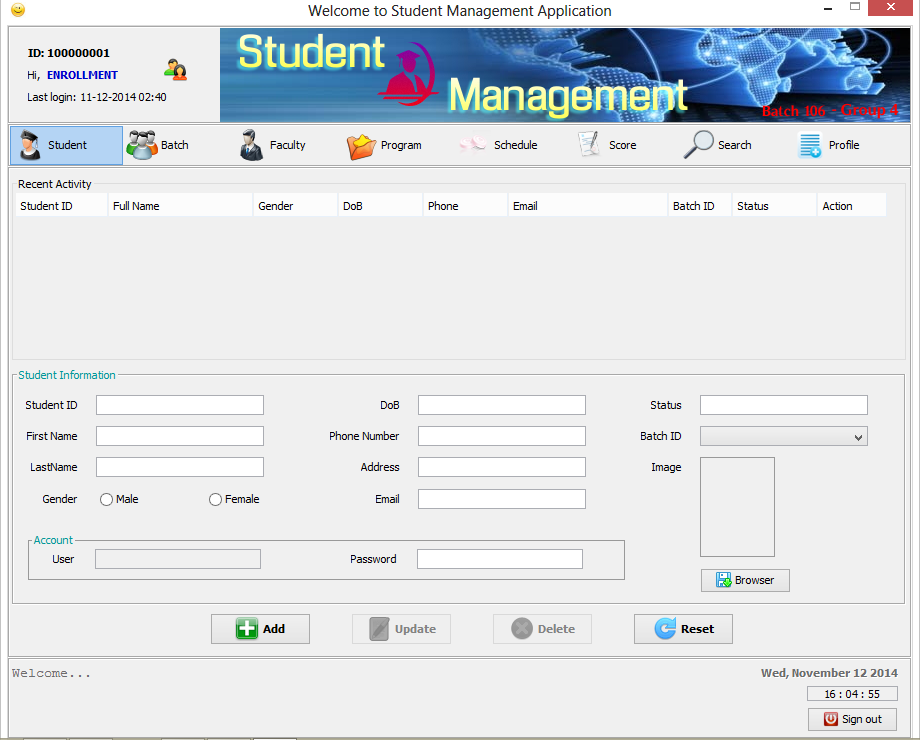
a. Form login :



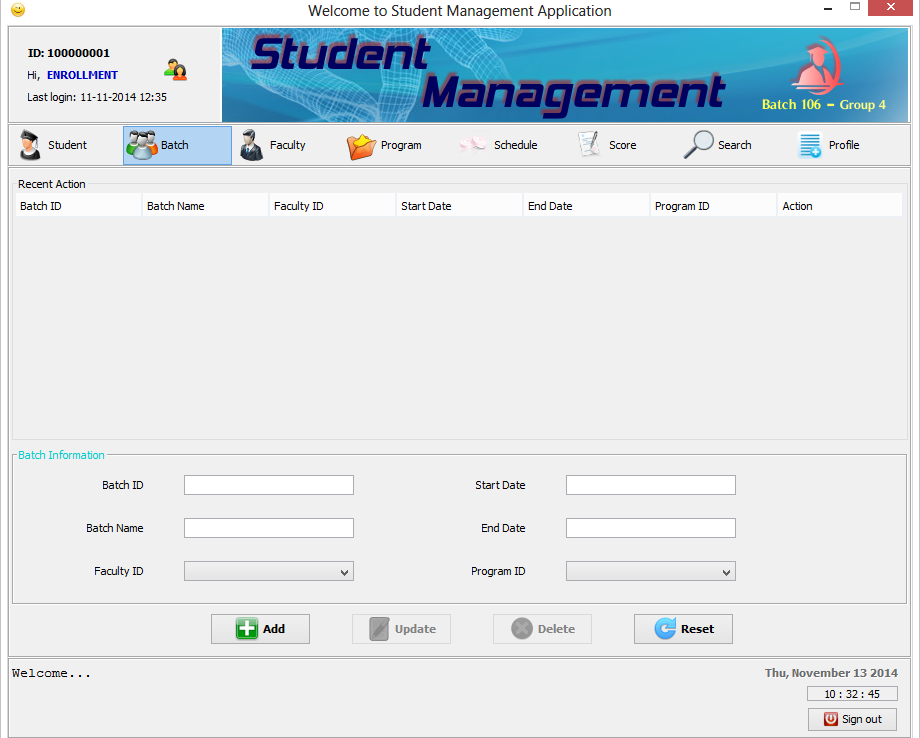
1. Form Welcome :



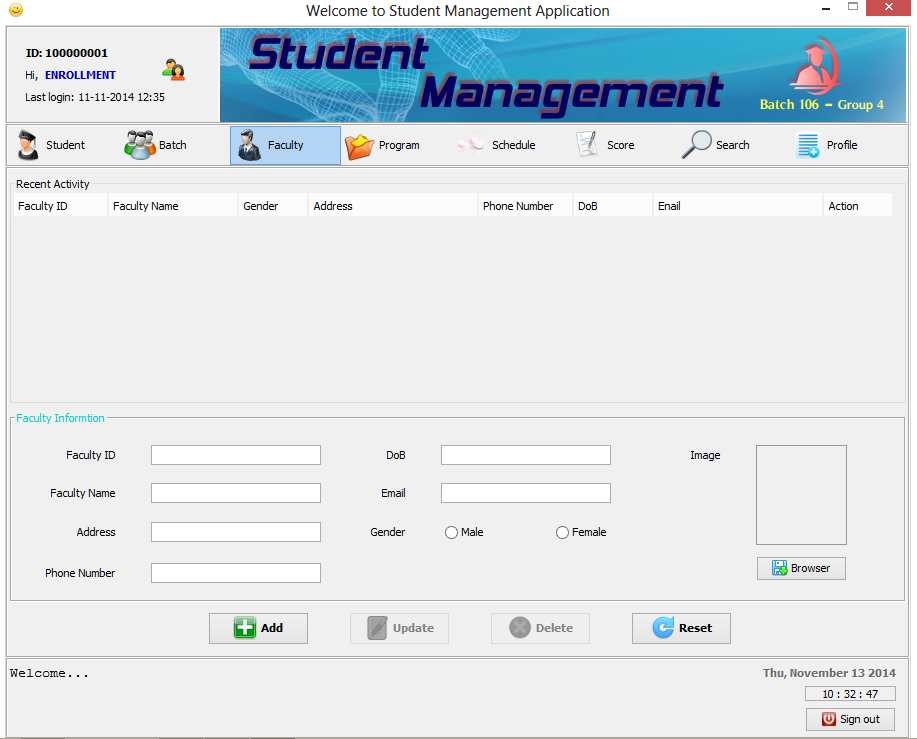
1. Form Add Student Enrollment :



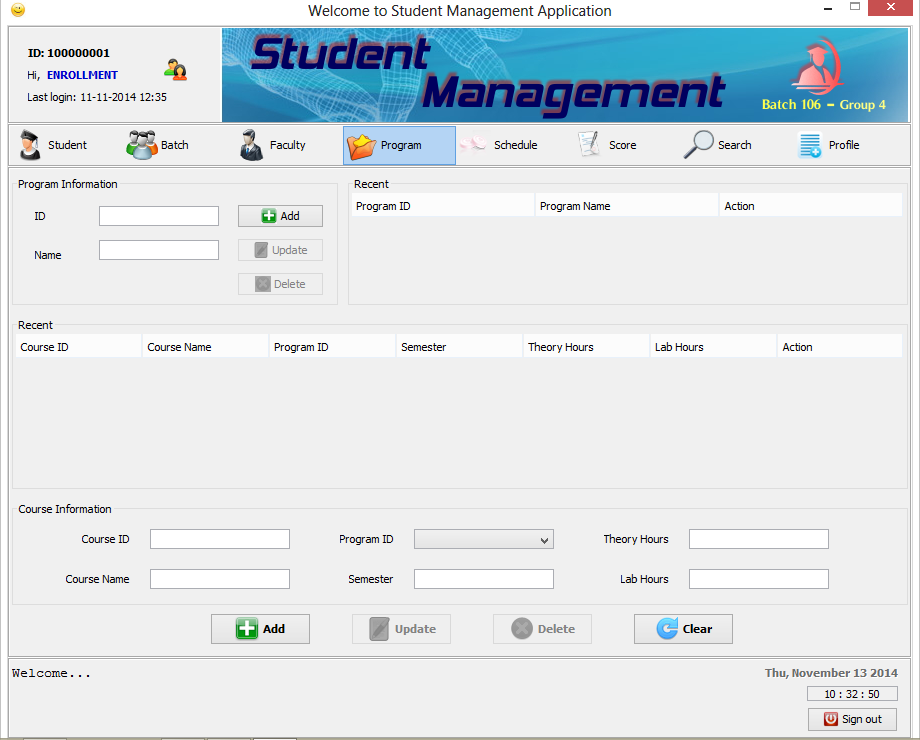
1. Form Batch Enrollment :



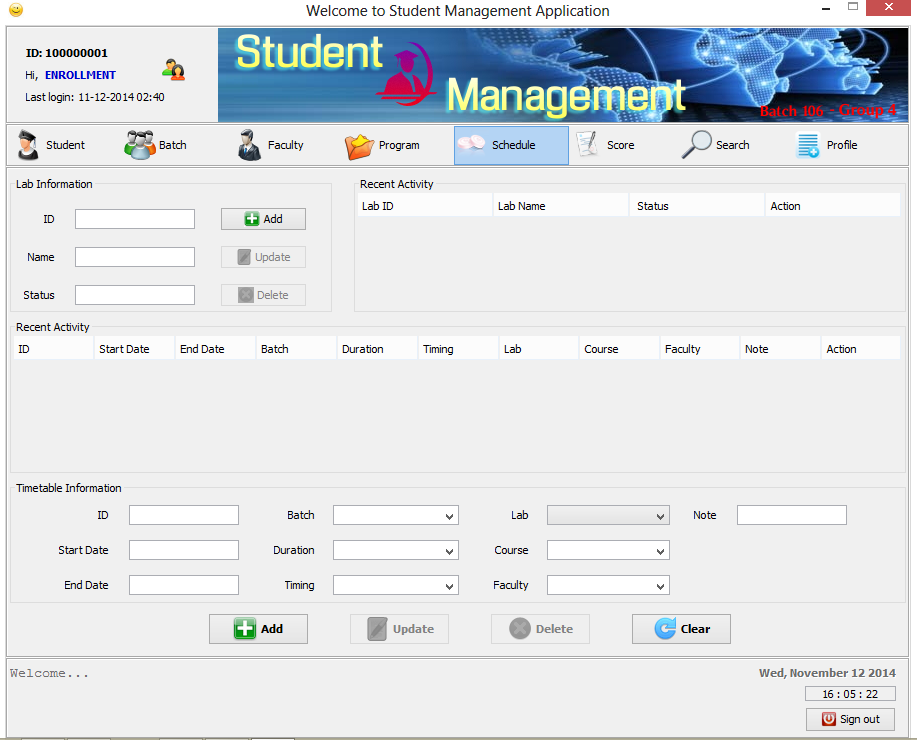
1. Form Faculty Enrollment :



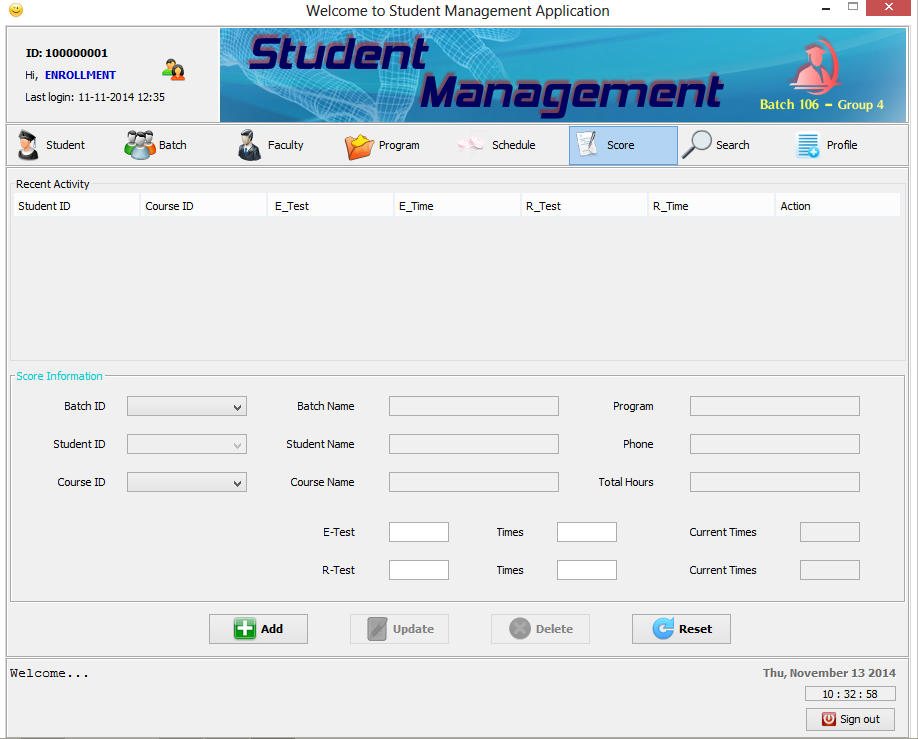
1. Form program Bursary :



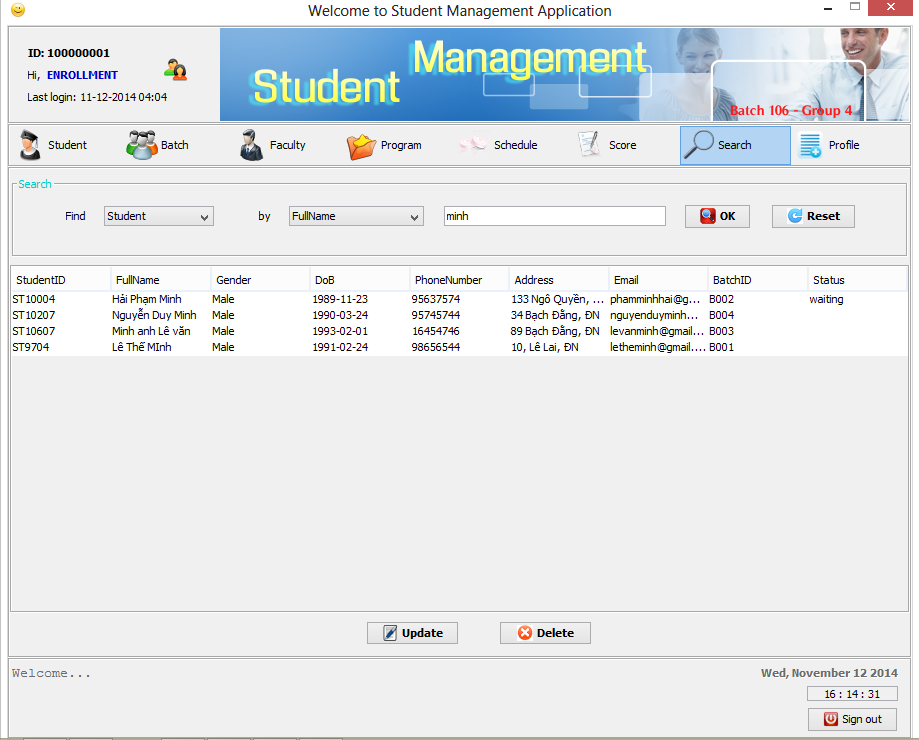
1. Form Schedule Bursary :



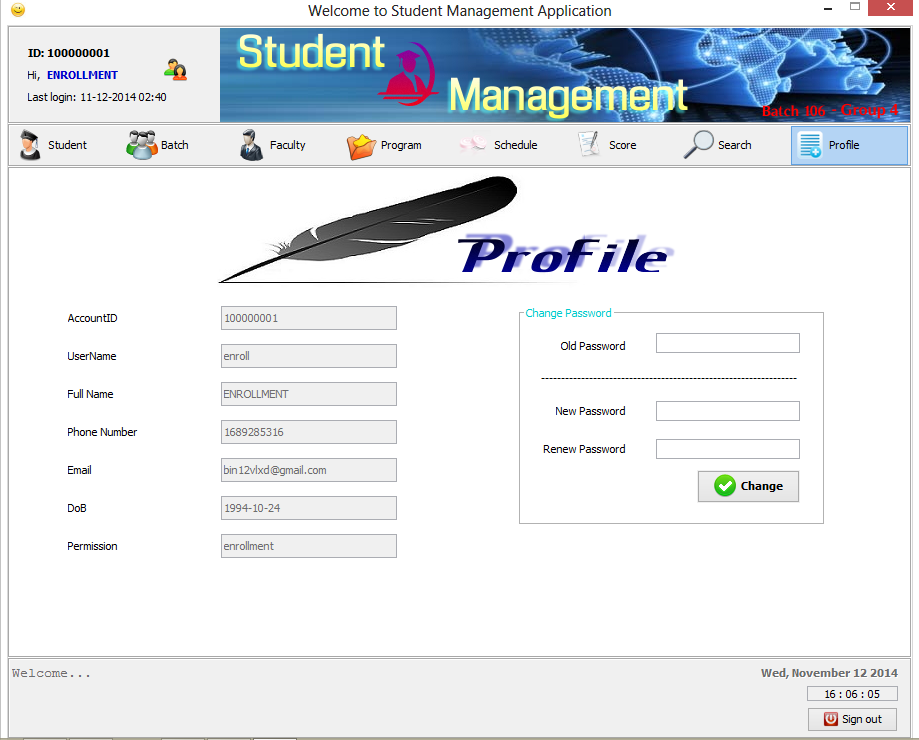
1. Form Score Bursary :



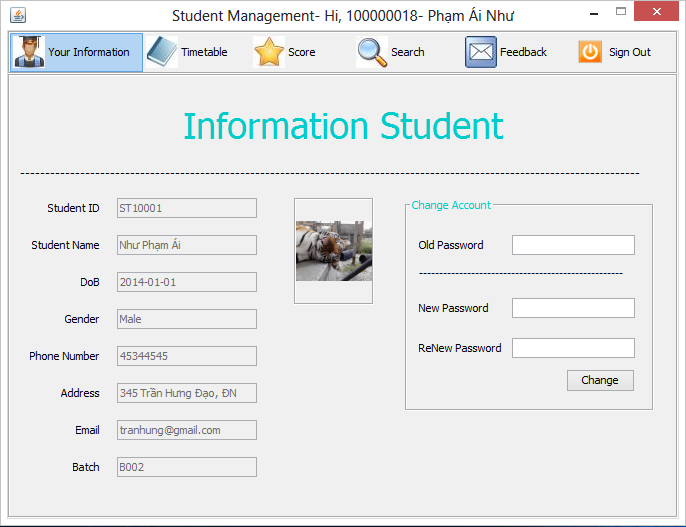
1. Form Search Enrollment, Bursary :



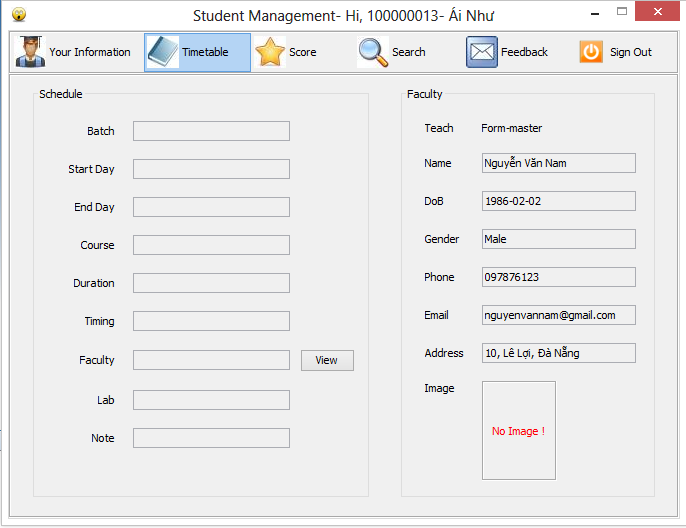
1. Form Profile Enrollment, Bursary :



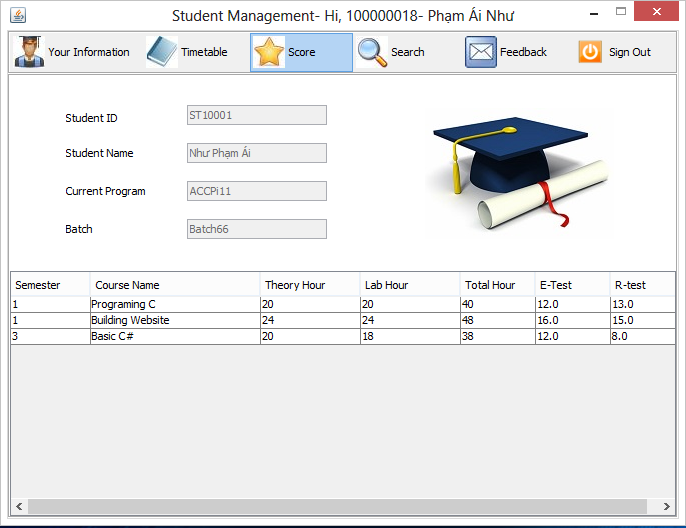
1. Form Information Student :



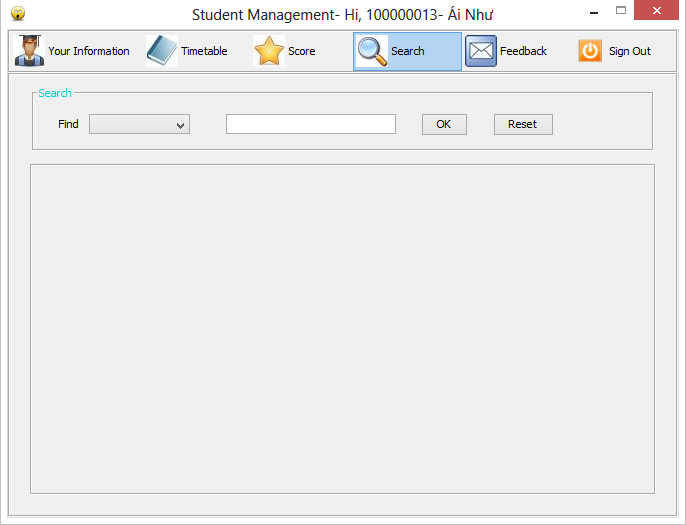
1. Form Timetable Student :



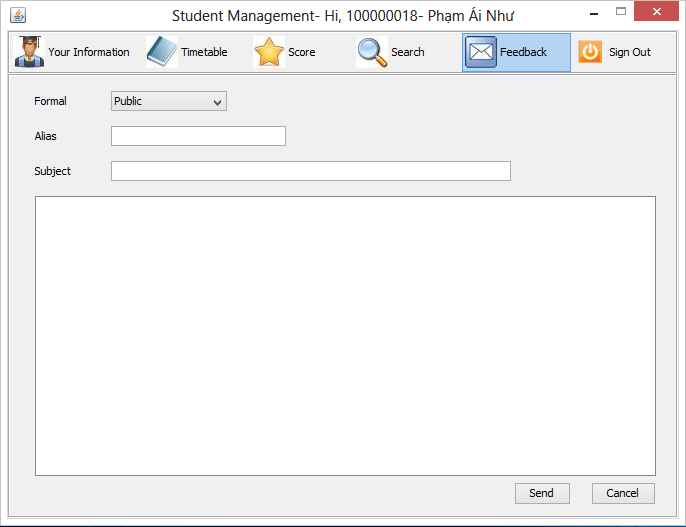
1. Form Score :



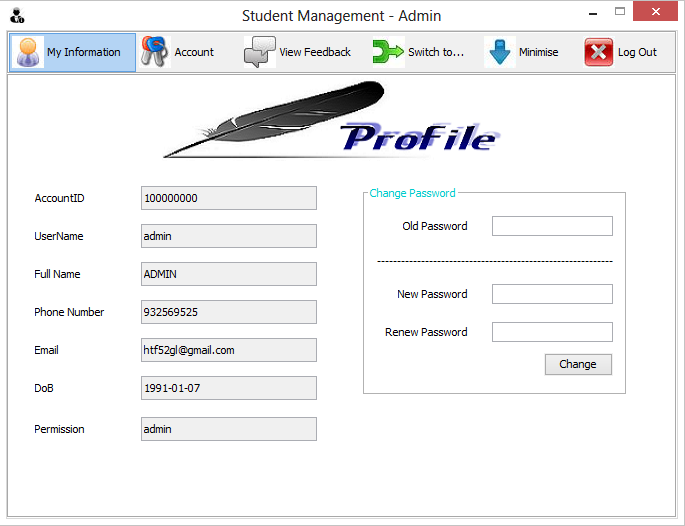
1. Form Search Student :



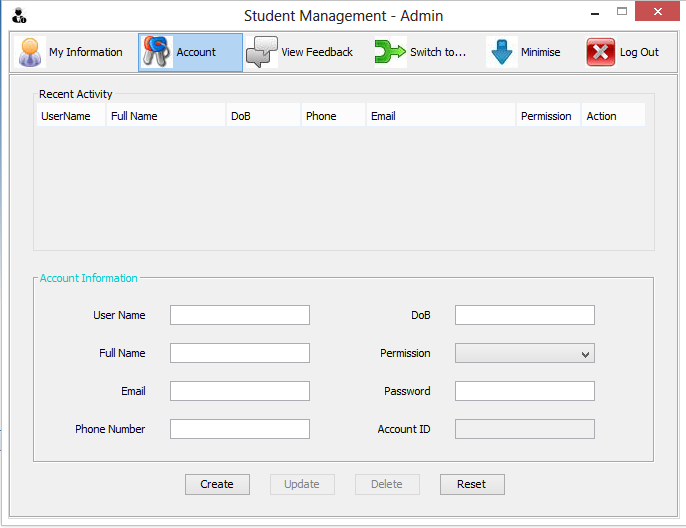
1. Form Feedback Student :



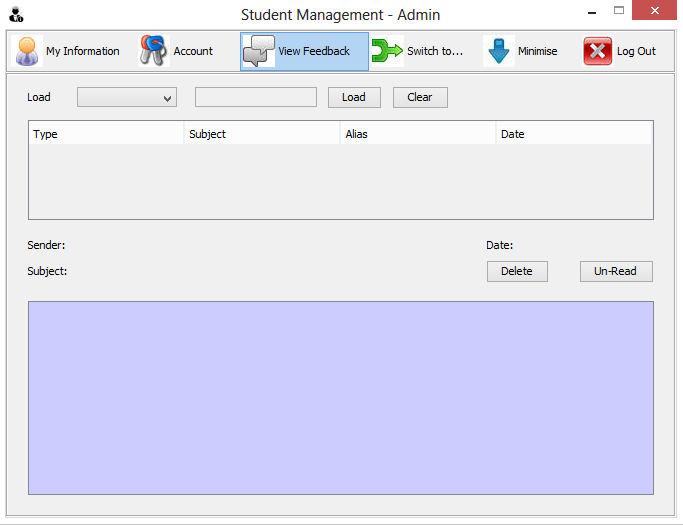
1. Form Information Admin :



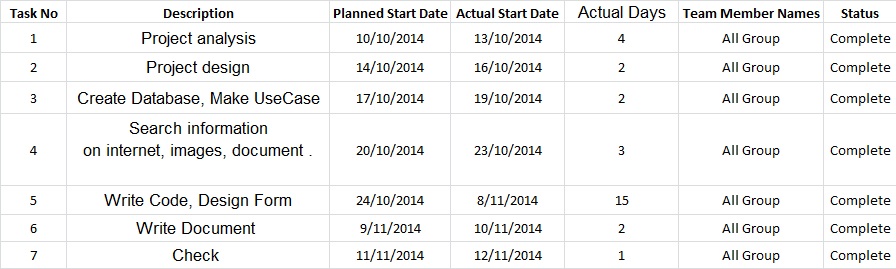
1. Form Account Admin :



1. Form Feedback Admin :



1. Task sheet :



1. Summary :

* With this application Student Management, we hope help work information student manage easier, faster, effctive .
* If have problem of this application, we available maintain and upgrade follow expected .
* This application is the result of a concentrated effort of Guider and Members, but still dificients .
* We will be glad to receive your suggestions to application better .

Thank you teacher and all everyone followed this presentation !