

NSBM Course Enrolment System

TAKE HOME ASSIGNMENT

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Introduction

The NSBM course enrollment system allows students to register for degree programs within the registration period. This is a stand-alone application which built using java programming language.

Objective

The objective of this application is to eliminate hassles that the students overcomes while registering them. This will reduce the paper work and reduce the time delay.

Users of the System

- Student
- Administrator

Administrator login:
Username – admin
Password – pass

Libraries, Plugins and Tools used

- JDK 1.8
- MySQL JDBC Drive 5.1.23
- JavaFX
- Fontawesomefx 8.9
- NetBeans IDE 8.2
- Gluon SceneBuilder 8.5
- XAMPP 3.2.2

System Functionalities and User Interfaces

When the application runs it will direct to a user login interface.

Login

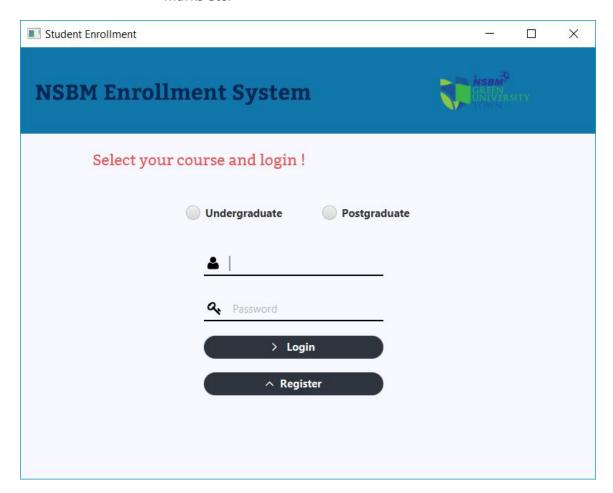
System has two way of user logins

Registered Student

Registered student can only use system to select subjects or/and remove selected subject within a two week of period.

Administrator

Administrator take care of other process like subject or course allocation, lecture location allocation, enter assignment and exam marks etc.

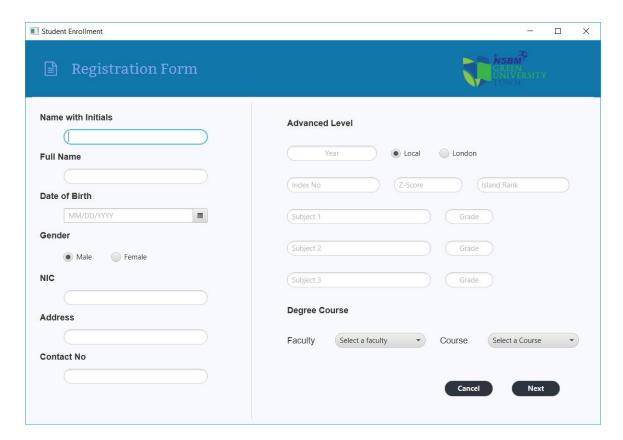


System has two main student classes undergraduate and postgraduate. If you are willing to a do degree or a master need to register with the system.

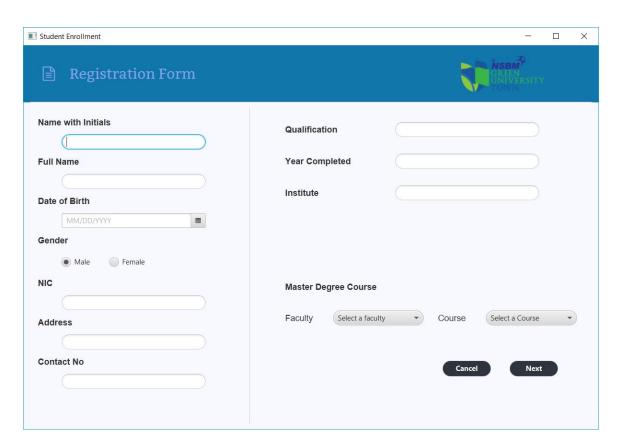
Registration

Student must select their graduation type in-order to process ahead.

Then click one the registration button on the login page you will direct to registration page according to your selection.



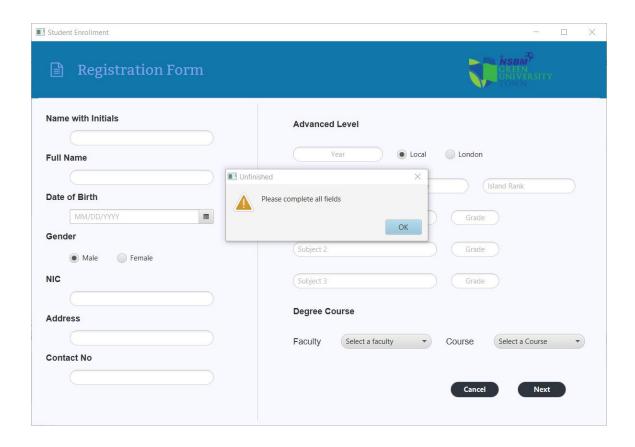
Undergraduate form.



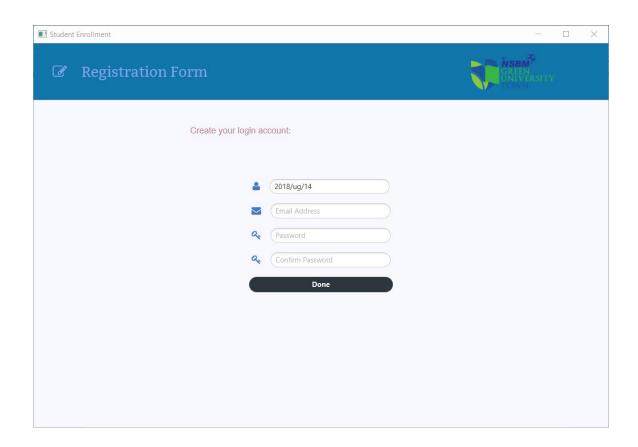
Postgraduate form

When you select a faculty course list will generate automatically.

You can't go further without filling any of these. System can handle such exceptions.



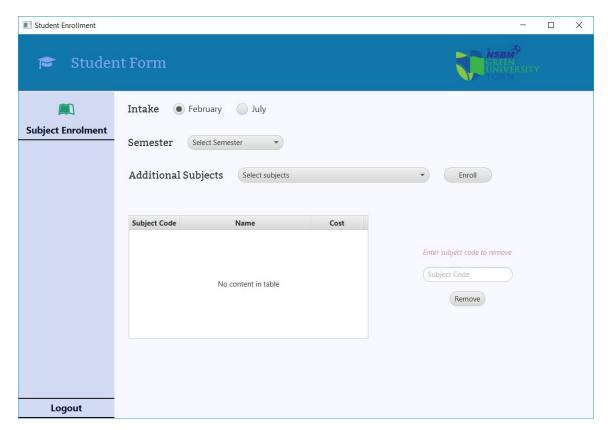
After filling all required details you will directed to account creating page by clicking next. In here system will give you a system generated username and you have to enter your email and password only.



After filling email and password clicking done user will directed to login page.

Then student have to login to your account in order to enroll subjects.

Enroll to Subjects



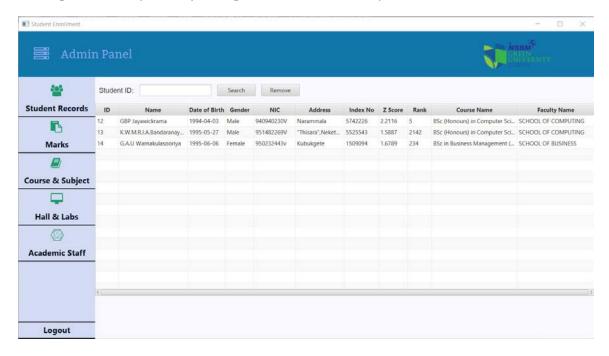
You have to select intake month firstly, according to month can select semesters then you can select you additional subject/s to enroll. System assumed that student have per-knowledge on number of additional subjects that have to select.

All subject that you have selected will view in the table and you can dis-enroll using entering the subject code.

The student enrollment form only available in a certain period, in that period student can update their subject selections.

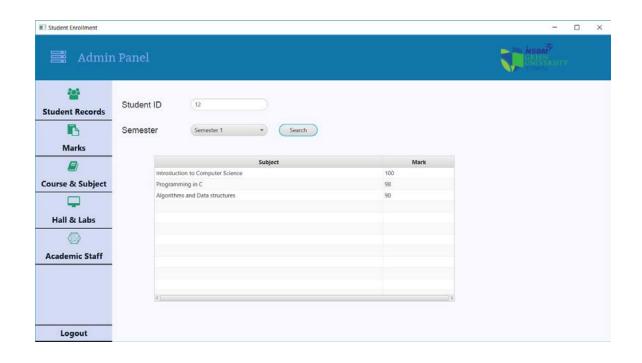
Admin Panel

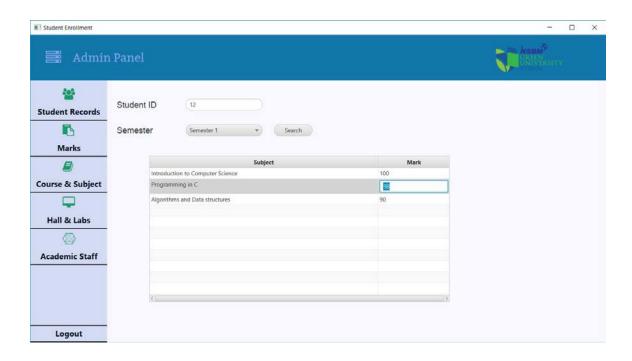
In main dashboard admin can retrieve student data using student id. Normally when loading the admin panel, system get retrieve some sample data from the database.



Admin - Marks

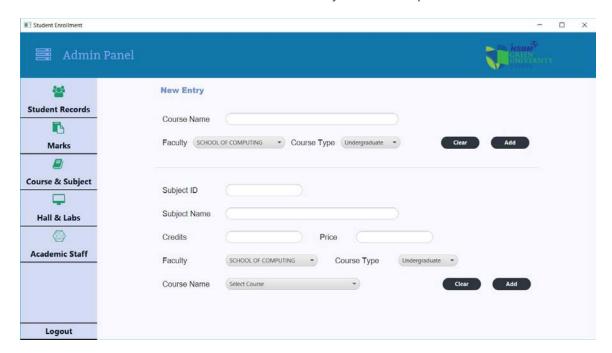
Using mark tab admin can get and add student marks to student table using student id.





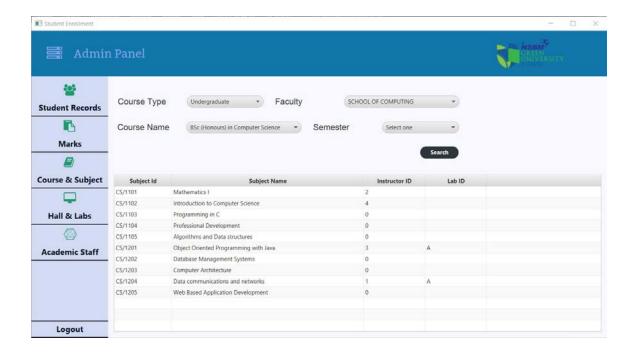
Admin – Course and Subjects

In this admin can add new courses and their subjects to the system.



Admin – Hall and Labs

Admin can assign subject instructors and labs. In here head instructors id will only marked. Instructor ID column refers to the ID number of the relevant instructor for each course and the ID number reads 0 it means there is no instructor currently assigned for that specific subject. Same as the lab ID column both can be updated by double clicking and entering on the relevant cell.



Stability of the system

- In most of cases the system have ability handle exceptions
- System used CachedRowSetImpl to hold some date without live database connection
- Login panel improve the security problems