



Report for the course Enrollment system

SCS2104 - Take home

Assignment

PREPARED FOR

NSBM Green University

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Introduction

This report is about the course enrollment system for NSBM Green University.

With this system administrator can control the student enrollments of all faculties in NSBM.

The System not only manage course enrollment of students but also keep personal details of students, teachers and Instructors, Keep track of performances of each student in their exams, Payments made by students and many more .

1. Student Registration

- Register Undergraduate Students
- Register Postgraduate Students

2. Manage Students

- Manage Undergraduate Students
- Manage Postgraduate Students

3. Add and Manage Teachers

- Add Teacher
- Edit Teacher

4. Add and manage Instructors

- Add Instructor
- Edit Instructor

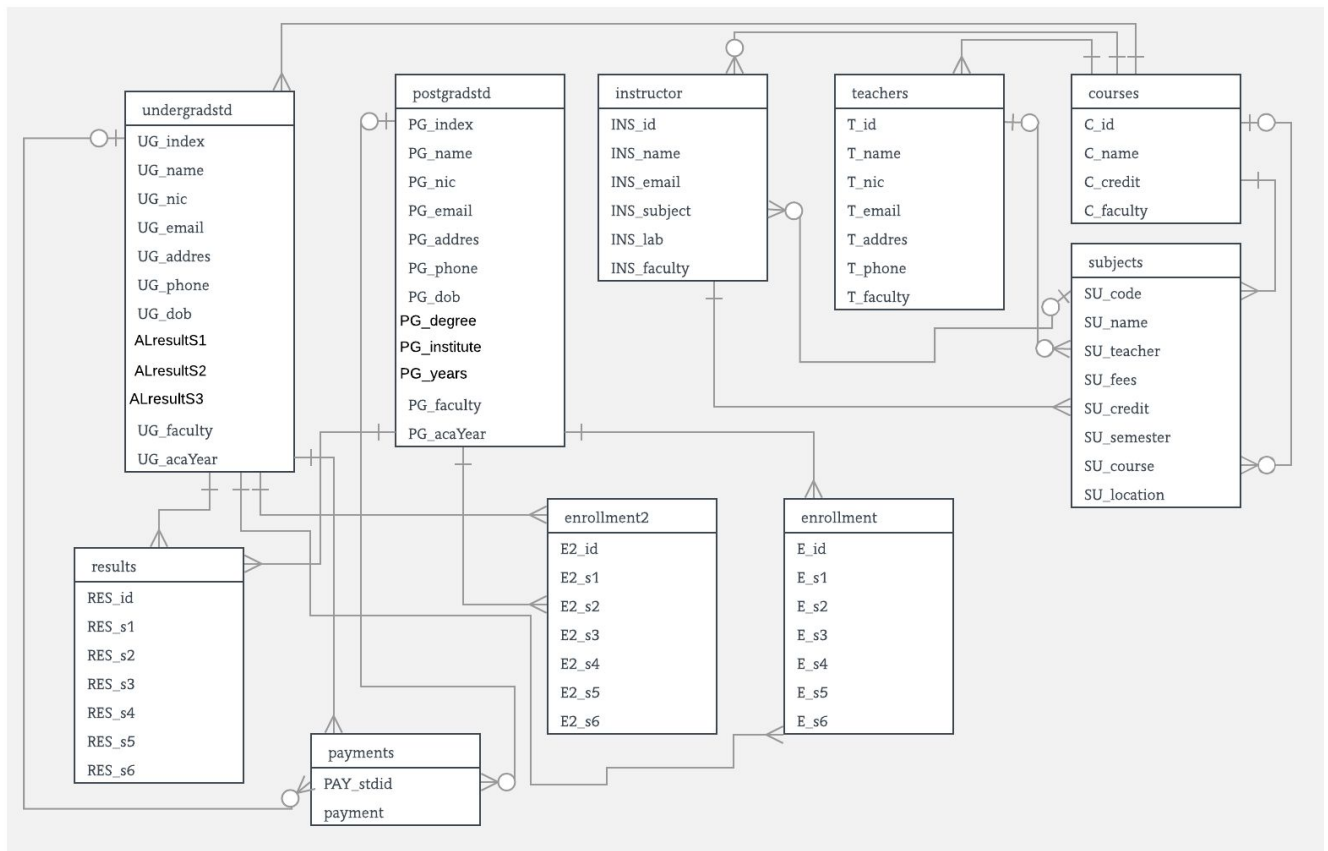
5. Manage Academics

- Add Result
- Send result as Email
- Make Payments
- Edit Payments
- Add Courses
- Add Subjects
- Assign subjects to students

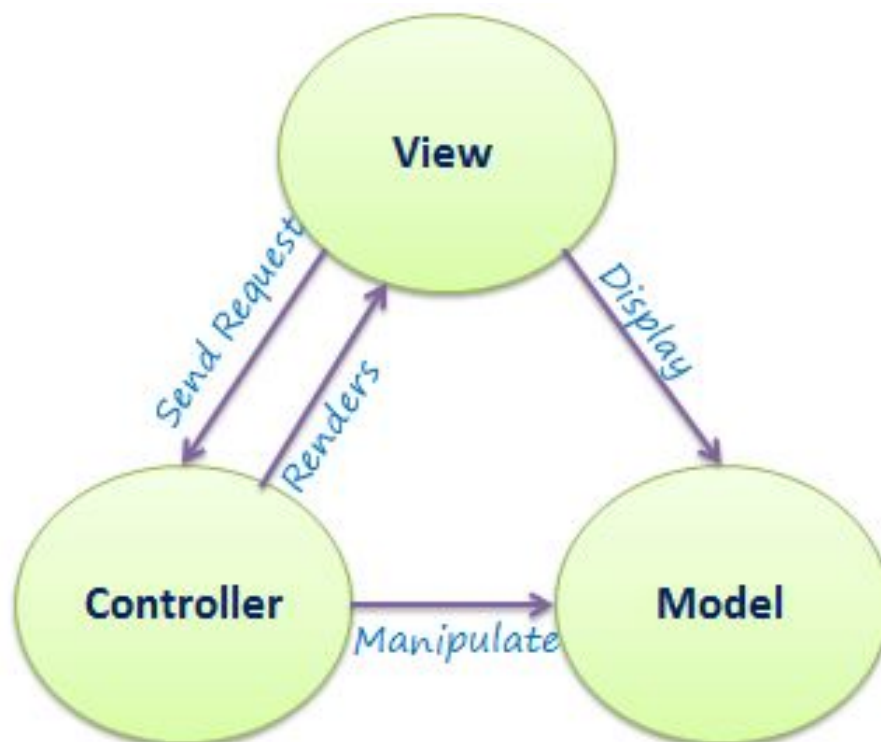
Assumptions

- One instructor can teach only one subject.
- One teacher can teach multiple subjects.
- Administrator assign teachers,instructors and venues for each subject manually.
- Payments are paid to casier in NSBM.

ER Diagram



System Architecture



MVC Architecture

Used Libraries and Drivers

- MySQL JDBC Driver
- JDK 1.8
- Swing Layout Extensions
- Mail
- httpclient-4.0.1

Home Page



Add Undergraduate students.

- Click “Add UG Student” In the dropdown menu in the taskbar.

The screenshot shows a web application window with a menu bar at the top containing 'Student', 'Teacher', 'Course', 'Subject', 'Result', and 'Payment'. A dropdown menu is open under 'Student', showing options: 'Add PG Student', 'Edit PG Student', 'Add UG Student' (highlighted), and 'Manage UG Student'. The main content area has a light blue background and displays several statistics in blue boxes:

- UG Student Count = 0
- Subject = 0
- PG Student Count = 2
- Instructors = 0
- Teachers = 0
- Courses = 0

On the right side, there are counts for different student categories:

- SOC UG Student Count = 0
- SOE UG Student Count = 0
- SOM UG Student Count = 0
- SOC PG Student Count = 2
- SOE PG Student Count = 0
- SOM PG Student Count = 0

At the bottom right, there is a watermark for 'NSBM GREEN UNIVERSITY TOWN' and a Windows activation notice.

- Fill the fields of “New Ug Student” Page.
- Then Click Submit Button.

The screenshot shows the 'New Ug Student' form with the following fields and options:

- ID :
- Full Name :
- NIC :
- Email :
- Address :
- Tel No:
- DOB :
- A/L Res 1 : ☒ A ☐ B ☐ C ☐ S
- A/L Res 2 : ☒ A ☐ B ☐ C ☐ S
- A/L Res 3 : ☒ A ☐ B ☐ C ☐ S
- A/L Rank :
- Faculty : ☒ SOC ☐ SOE ☐ SOM
- Aca Year :

At the bottom, there are 'Cancel' and 'Submit' buttons. The NSBM Green University Town logo is in the bottom right corner.

Edit Details of Undergraduate Students and Remove.

UG Student Info

ID :

Full Name : Enter Value to Search :

NIC :

Email :

Address :

Tel No:

DOB :

A/L Res 1 : ☒ A ☐ B ☐ C ☐ S

A/L Res 2 : ☐ A ☒ B ☐ C ☐ S

A/L Res 3 : ☒ A ☐ B ☐ C ☐ S

A/L Rank :

Faculty : ☒ SOC ☐ SOE ☐ SOM

Aca Year :

ID	Name	NIC	Email	Address	Phone	DOB	A/L res1	A/L res2	A/L res3	A/L rank	Faculty	Aca year
UG/CS...	Saman ...	96123...	saman....	32/Ak...	03330...	1996/...	A	B	A	123	SOC	2015/...

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- Enter Students' Name or index number in the Search field.
- Select the student from the table by clicking.
- Edit required field and submit to save.
- To remove student follow same procedure and click remove button.

Add post graduate students.

The screenshot shows a web application interface for NSBM Green University Town. At the top, there is a navigation bar with tabs: Student, Teacher, Course, Subject, Result, and Payment. Below the navigation bar, a dropdown menu is open under the 'Student' tab, listing options: Add PG Student, Edit PG Student, Add UG Student, and Manage UG Student. The main content area displays a grid of blue boxes showing current counts: UG Student Count = 0, Subject = 0, PG Student Count = 2, Instructors = 0, Teachers = 0, and Courses = 0. To the right of this grid, a list of student counts for different faculties is shown: SOC UG Student Count = 0, SOE UG Student Count = 0, SOM UG Student Count = 0, SOC PG Student Count = 2, SOE PG Student Count = 0, and SOM PG Student Count = 0. The bottom of the screen features a Windows taskbar with various application icons and a system tray showing the date and time (17:03, 21/08/2018). An 'Activate Windows' watermark is visible in the bottom right corner.

- Fill the fields and click submit to add new student.

The screenshot shows the 'New PG Student' form in the NSBM Student Enrollment System. The form is titled 'New PG Student' and contains the following fields: ID, Full Name, NIC, Email, Address, Tel No, DOB, Degree, Institute, Years, Faculty, and Aca Year. The Faculty field has three radio button options: SOC (selected), SOE, and SOM. The Aca Year field is a text input. At the bottom of the form, there are 'Cancel' and 'Submit' buttons. The NSBM Green University Town logo is visible in the bottom right corner of the form.

Edit or Remove Post graduate students

PG Student Info

ID :

Full Name : Enter Value to Search :

NIC :

Email :

Address :

Tel No:

DOB :

Pre Degree :

Institute :

Years :

Faculty : ☐ SOC ☐ SOE ☐ SOM

Aca Year :

ID	Name	NIC	Email	Address	Phone	DOB	Degree	Institute	Years	Faculty	Aca year
P6/CS/...	Lahiru ...	9614118...	lahiru.m...	232/A/...	077009...	1996/0...	Bsc-CS	UCSC	3	SOC	2016/2...
P6/CS/...	Kamal ...	9614118...	kamal.m...	232/A/...	077009...	1995/0...	Bsc-CS	UCSC	3	SOC	2016/2...

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TOWN

- Enter Index number or name in the search field.
- Select correct one from the table by clicking.
- Edit required fields.
- Click Edit to save.
- To remove student select the student and Click Remove.

Add teacher

The screenshot shows a web application window titled "Student Teacher Course Subject Result Payment". The "Teacher" tab is active. A dropdown menu is open under the "Teacher" tab, showing options: "Add Teacher", "Edit Teacher", "Add Instructor", and "Edit Instructor". The main content area has a light blue background. On the left, there are six blue boxes displaying counts: "UG Student Count = 0", "Subject = 0", "PG Student Count = 2", "Instructors = 0", "Teachers = 0", and "Courses = 0". On the right, there are seven lines of text showing student counts for different faculties: "SOC UG Student Count = 0", "SOE UG Student Count = 0", "SOM UG Student Count = 0", "SOC PG Student Count = 2", "SOE PG Student Count = 0", and "SOM PG Student Count = 0". At the bottom right, there is a watermark for "NSBM GREEN UNIVERSITY TOWN" and a Windows activation notice.

- Click "Add Teacher".
- Fill all Required field and click submit to Add new teacher.

The screenshot shows a "New Teacher" form with the following fields and options:

- ID :
- Full Name :
- NIC :
- Email :
- Addres :
- Tel No:
- Faculty : ☒ SOC ☐ SOE ☐ SOM

At the bottom of the form are two buttons: "Cancel" and "Submit". The NSBM Green University Town logo is visible in the bottom right corner.

Edit Teachers details or remove teacher.

The screenshot shows a web application window titled "Teacher Info". On the left, there is a form with the following fields: ID (text box), Full Name (text box), NIC (text box), Email (text box), Address (text box), Tel No (text box), and Faculty (radio buttons for SOC, SOE, and SOM). Below these fields are three buttons: "Cancel", "Remove", and "Edit". On the right, there is a search bar labeled "Enter Value to Search :". Below the search bar is a table with the following columns: ID, Name, NIC, Email, Address, Phone, and Faculty. The table is currently empty. In the bottom right corner of the form area, there is a logo for NSBM WILKINS UNIVERSITY with the text "Active WILKINS UNIVERSITY Go to the TOWN and World". The Windows taskbar is visible at the bottom of the screen.

Teacher Info

ID :

Full Name :

NIC :

Email :

Address :

Tel No:

Faculty : ☒ SOC ☐ SOE ☐ SOM

Enter Value to Search :

ID	Name	NIC	Email	Address	Phone	Faculty
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Cancel Remove Edit

NSBM WILKINS UNIVERSITY
Active WILKINS UNIVERSITY
Go to the TOWN and World

- Enter the index number or Name in the search field.
- Select correct one from table.
- Edit required fields and click Edit button to save changes.
- To remove a teacher Select the teacher and Click Remove.

Add, Edit, Remove Instructors.

- Select Add new Instructor from taskbar.
- Fill all required fields of the page and Click submit to save.
- Enter index or name in the search field And select correct one from the table.
- Edit Required fields and click Edit to save.
- Select the teacher that wanted to remove and click remove.

The 'New Instructor' form is a web-based interface for adding a new instructor. It features a light blue header with the title 'New Instructor'. Below the header, there are several input fields: 'ID' (a small text box), 'Full Name' (a larger text box), 'Email' (a text box), 'Subject' (a text box), and 'Lab' (a text box). Below these fields is a 'Faculty' section with three radio buttons labeled 'SOC', 'SOE', and 'SOM'. At the bottom of the form, there are two buttons: 'Cancel' and 'Submit'. The NSBM Green University Town logo is visible in the bottom right corner.

The 'Instructor Info' page is a web-based interface for managing instructors. It features a light blue header with the title 'Instructor Info'. On the left side, there are several input fields: 'ID' (a small text box), 'Full Name' (a larger text box), 'Email' (a text box), 'Subject' (a text box), and 'Lab' (a text box). Below these fields is a 'Faculty' section with three radio buttons labeled 'SOC', 'SOE', and 'SOM'. At the bottom of the form, there are three buttons: 'Cancel', 'Remove', and 'Edit'. On the right side of the page, there is a search bar labeled 'Enter Value to Search :'. Below the search bar is a table with the following columns: 'ID', 'Name', 'Email', 'Subject', 'Lab', and 'Faculty'. The table is currently empty. The NSBM Green University Town logo is visible in the bottom right corner.

ID	Name	Email	Subject	Lab	Faculty
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Add, Edit and Remove Courses

Course Info

Course ID :

Course Name :

Credit :

Enter Value to Search :

Faculty : ☒ SOC ☐ SOE ☐ SOM

ID	Name	Course	Faculty
----	------	--------	---------

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Add course

- Fill Fields in the page and click Add to add a new Course.

Edit course

- Enter Course ID or course name.
- Select the course from the table.
- Edit Required fields and click edit to save.

Remove course

- Enter Course ID or course name.
- Select the course from table.

- Click Remove to delete the course.

Add, Edit and Remove Subjects.

Subject Info

Subject Code :

Subject Name :

Teacher :

Fees :

Credit :

Semester : ☒ First ☐ Second

Course :

Location :

Enter Value to Search :

ID	Name	Teacher	Fees	Credit	Semester	Course	Location
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17:06 21/08/2018

Add course

- Fill Fields in the page and click Add to add a new Subject.

Edit course

- Enter Subject code or subject name.
- Select the subject from the table.
- Edit Required fields and click edit to save.

Remove course

- Enter Subject code or subject name.
- Select the subject from table.
- Click Remove to delete the subject.

Add, Edit and Remove Enrollments.

The screenshot shows a web application window titled "Enroll Student sem1". On the left, there are input fields for "Student ID:", "Subject 1:", "Subject 2:", "Subject 3:", "Subject 4:", "Subject 5:", and "Subject 6:". Below these fields are four buttons: "Cancel", "Remove", "Edit", and "Add". On the right, there is a search bar labeled "Enter Value to Search :". Below the search bar is a table with columns "ID", "Sub1", "Sub2", "Sub3", "Sub4", "Sub5", and "Sub6". The table is currently empty. In the bottom right corner, there is a logo for NSBM GREEN UNIVERSITY TOWN.

The screenshot shows a web application window titled "Enroll Student Sem2". It has the same layout as the first screenshot, with input fields for "Student ID:" and "Subject 1:" through "Subject 6:", "Cancel", "Remove", "Edit", and "Add" buttons, a search bar labeled "Enter Value to Search :", and an empty table with columns "ID", "Sub1", "Sub2", "Sub3", "Sub4", "Sub5", and "Sub6". The NSBM GREEN UNIVERSITY TOWN logo is also present in the bottom right corner.

Add Enrollment

- Fill Fields in the page and click Add to add a new Enrollment.

Edit Enrollment

- Enter Student ID or student name.
- Select the Enrollment from the table.
- Edit Required fields and click edit to save.

Remove Enrollment

- Enter Student ID or student name.
- Select the Enrollment from table.

- Click Remove to delete the Enrollment .

Add, Edit and Remove Results.

Add Result

- Fill Fields in the page and click Add to add a new **Result**.

Edit Result

- Enter Student ID or student name.
- Select the Result from the table.
- Edit Required fields and click edit to save.

Remove Result

- Enter Student ID or student name.
- Select the Result from table.
- Click Remove to delete the Result.

Edit Payments

Manage Payment

Student ID :

Payment :

Paid

Not Paid

Enter Value to Search :

Cancel

Edit

ID	Payment
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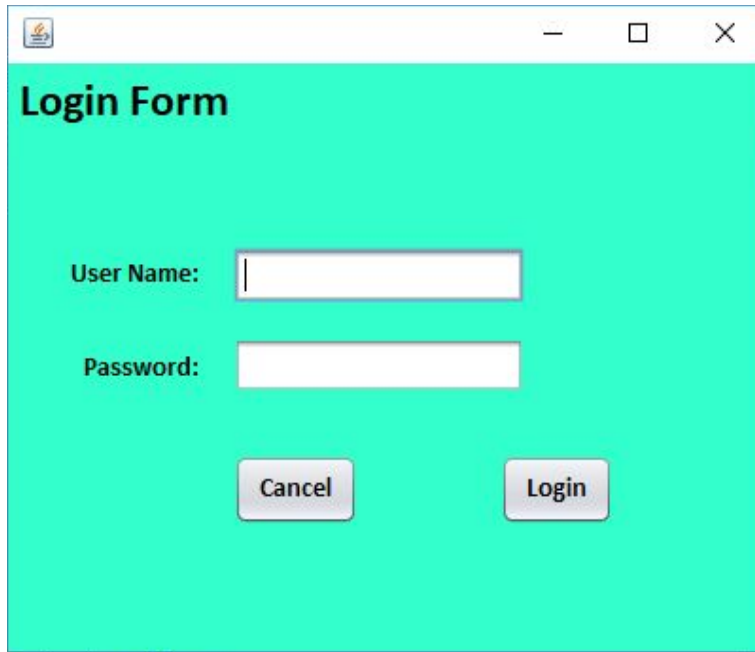
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TOWN

Edit Result

- Enter Student ID or student name.
- Select the payment from the table.
- Edit Required fields and click edit to save.

Login to the System

A screenshot of a web application window titled "Login Form". The window has a light blue header bar with a small icon on the left and standard window controls (minimize, maximize, close) on the right. The main content area is white. It contains two text input fields: "User Name:" and "Password:". Below the "Password:" field are two buttons: "Cancel" and "Login".

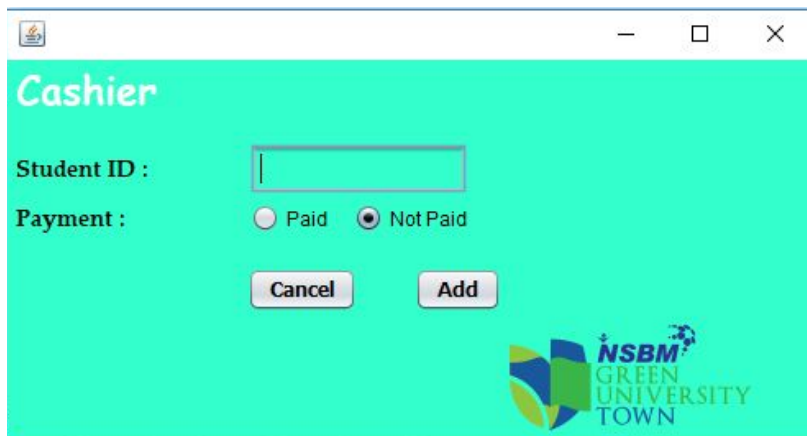
Login Form

User Name:

Password:

- To login to the system should enter matching set of Username and password.
- If matching set of Username and password for the system admin is entered it will continue to the home page.
- If matching set of Username and password for the cashier is entered it will continue to the cashiers page(window).


Cashier page

A screenshot of a web application window titled "Cashier". The window has a light blue header bar with a small icon on the left and standard window controls (minimize, maximize, close) on the right. The main content area is white. It contains a text input field for "Student ID :". Below it are two radio buttons for "Payment :": "Paid" and "Not Paid", with "Not Paid" selected. At the bottom are two buttons: "Cancel" and "Add". In the bottom right corner is the NSBM Green University Town logo.

Cashier

Student ID :

Payment : ☐ Paid ☒ Not Paid



Send result by Email

Send PG Result

Student Index :

Index	Name	Email	ID	Sub1	Result	Sub2	Result	Sub3	Result	Sub4	Result	Sub5	Result	Sub6	Result
PG/CS/0001	Lahiru Madushan	lahiru.mirihagoda@g...	PG/CS...	A	SCS1001	A	SCS10...	A	SCS10...	A	SCS10...	A	SCS10...	A	SCS10...

Index :

Name :

Email :

Subject 1 :

Subject 2 :

Subject 3 :

Subject 4 :

Subject 5 :

Subject 6 :

Result :

Result :

Result :

Result :

Result :

Result :

Cancel

Send

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- Enter the Index number of the student.
- Click on the table.
- Click Send to send email.