

COMPUTER UNIVERSITY (MANDALAY)



FINAL YEAR PROJECT REPORT
ON

CHAPTER 1: INTRODUCTION
ONLINE ENROLLMENT SYSTEM FOR
MATRICULATED STUDENTS

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Bachelor of Computer Science

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(B.C.Sc)

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We are deeply thankful our supervisor Daw Khin Myat Nwe Win, Assistant Lecturer, Software Technology Department for her invaluable and patient supervision, detailed guidance and constant support throughout the period of study.

We would like to express our special thanks to Daw Yi Mon Thwe, Tutor of English Department Computer University(Mandalay) , for editing this project from the English language point of view.

Finally, we heartfelt thanks are due to all our teachers who taught me at Computer University (Mandalay) for offering storage moral and physical support, care and kindness during the years of our studies and all friends for their support.

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We would like to express our application and thank to the following person whose guidance aided or directly towards the success of this project.

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Group Member Lists

Project Proposal for March 2015

Sr.No	Name	Roll No.
1	Ma Moe Thandar Hlaing	4CS-36
2	Ma Thet Htar Swe	4CS-95
3	Mg Soe Myint Aung	4CS-128
4	Ma Seint Thiri Mon	4CS-154

Supervisor

28.9.2015

Name: : Daw Khin Myat Nwe Win

Rank: : Assistant Lecture

Department: : Software Technology

Computer University(Mandalay)

Project Schedule

Project Proposal : : March,2015

First Seminar : : 10.6.2015

Second Semiar : : 15.6.2015

Third Seminar : : 20.8.2015

Book Submission : : 20.8.2015

Time Schedule	March 2015	May 2015	June 2015	July 2015	August 2015
Project Proposal					
First Seminar					
Second Seminar					
Third Seminar					
Book Submission					

Abstract

This project is online enrollment system for matriculated students. If the user is a matriculated student, he/she chooses the majors as he/she likes. After choosing process, the student would be accepted for the respective major. The project would be arranged students' marks by using Bubble sort method. Finally, it would be issue the students to register in the desired university /collage /major. It would be implemented by using PHP.

Several different types of Computer uses. Web creation is very popular in these days and people use web sites to advertise their business and to expand marketing. Computer and Web application bring a significant revolution in the social life especially to the traditional mechanism education. In this project, the web based on enrollment system for matriculated students is the main target. This project granted to enroll the students in everywhere if they can access the Internet. This project helped students to enroll more easier and faster than the manual enrol system.

1.2 Objectives of the Project

CHAPTER 1

INTRODUCTION

1.1 Introduction

Nowadays, the internet has been the hot topic and it doesn't seem likely that topic will cool down in the near future. The internet is a world wide web collection of interconnected computer system and series of several different types of Computer series. Web creation is very popular in these days and people use web sites to advertise their business and to expand marketing. Computer and Web application bring a significant revolution in the social life, especially to the traditional mechanism education. In this project, the web based on enrollment system for matriculated students is the main target. This project granted to enroll the students in everywhere if they can access the internet. This project helped students to enroll more easier and faster than the manual enrol system.

1.2 Objectives of the Project

- To enroll in everywhere if they can access the internet.
- To save the extra bit of time for enrollment and to minimize unnecessary paper work.
- No need to go to the post office and to be more convince.
- To understand database and web-based client server system by using internet.
- To understand administrators how to maintain and manage their role and the users.

NewSphere PHP

Database System

MySQL server 5.1

Programming Language

PHP

1.3 Project Requirements

1.3.1 Hardware Requirements

Processor – Pentium P4 1.8 GHz

Memory -4GB DDR3

H D D -500 GB

2.1 Data structures are a way of managing data in a computer's memory (or sometimes on a disk). Data structures include array, linked lists, stacks, queues, trees, graphs, tables, among others. Algorithm

1.3.2 Software Requirements

2.2 Software is a set of instructions that tell a computer what to do. Such as searching for a particular

data item. Application Software - NewSphere PHP

2.2 Software - MySQL server5.1

Programming Language - PHP

Sorting is arranging an element in some type of order. It is also arranging numerical data in decreasing or increasing order and arranging non-numerical data in alphabetical order. Sorting is very important and time consuming, potentially it has been the subject of extensive research in computer science. Sorting may seem to be a trivial task, sorting efficiently may be quite complicated. In fact, there are many many different sorting algorithms; some of these algorithms – they are Bubble sort, Selection sort, Insertion sort, Merge sort, etc and so on. This project is applied by using Bubble Sort method from Sorting theory.

CHAPTER 2

BUBBLE SORT

2.1 Data Structure

A data structure is an arrangement of data in a computer's memory (or sometimes on a disk). Data structures include array, linked list, stacks, binary trees, and hash tables, among others. Algorithm manipulates the data in various ways. Such as searching for a particular data item and sorting the data.

2.2 Sorting

Sorting is arranging an element in some type of order. It is also arranging numerical data in decreasing or increasing order and arranging non-numerical data in alphabetical order. *Sorting is very important and time consuming, potentially it has been the subject of extensive research in computer science.* Sorting may seem to be a trivial task, sorting efficiently may be quite complicated. In fact, there are many many different sorting algorithms; some of these algorithms – they are Bubble sort, Selection sort, Insertion sort, Merge sort, etc and so on. This project is applied by using Bubble Sort method from Sorting theory.

2.3 Bubble sort

A bubble sort, a sorting algorithm that continuously steps through a list, **swapping** items until they appear in the correct order. **Bubble Sort** is the simplest sorting algorithm that works by repeatedly swapping the adjacent elements if they are in wrong order. Although bubble sort is one of the simplest sorting algorithms to understand and implement, its $O(n^2)$ complexity means that its efficiency decreases dramatically on lists of more than a small number of elements.

Bubble sort, sometimes referred to as **sinking sort**, is a simple sorting algorithm that repeatedly steps through the list to be sorted, compares each pair of adjacent items and swaps them if they are in the wrong order. The pass through the list is repeated until no swaps are needed, which indicates that the list is sorted. The algorithm, which is a comparison sort, is named for the way smaller elements "bubble" to the top of the list.

It can be practical if the input is usually in sort order but may occasionally have some out-of-order elements nearly in position.

average-case complexity is $O(n^2)$ and worst-case complexity is $O(n^2)$ and thus are more complex. However, not only does insertion sort have this mechanism too, but it also performs better on a list that is substantially sorted (having a small number of inversions).

It requires about twice as many writes as insertion sort, twice as many cache misses, and asymptotically more branch mispredictions. Bubble sort is asymptotically equivalent in running time to insertion sort in the worst case, but the two algorithms differ greatly in the number of swaps necessary. For these reasons many modern algorithm textbooks avoid using the bubble sort algorithm in favor of insertion sort.

2.3.1 Performance

Bubble sort has worst-case and average complexity both $O(n^2)$, where n is the number of items being sorted. There exist many sorting algorithms with substantially better worst-case or average complexity of $O(n \log n)$. Even other $O(n^2)$ sorting algorithms, such as **insertion sort**, tend to have better performance than bubble sort. Therefore, bubble sort is not a practical sorting algorithm when n is large.

Worst case performance $O(n^2)$

Best case performance $O(n)$

Average case performance $O(n^2)$

Worst case space complexity $O(1)$ auxiliary

The only significant advantage is that bubble sort has over most other implementations, even **quicksort**, but not **insertion sort**, is that the ability to detect that the list is sorted is efficiently built into the algorithm. When the list is already sorted (best-case), the complexity of bubble sort is only $O(n)$. By contrast, most other algorithms, even those with better **average-case complexity**, perform their entire sorting process on the set and thus are more complex. However, not only does **insertion sort** have this mechanism too, but it also performs better on a list that is substantially sorted (having a small number of **inversions**).

It requires at least twice as many writes as insertion sort, twice as many cache misses, and asymptotically more **branch mispredictions**. Bubble sort is **asymptotically** equivalent in running time to insertion sort in the worst case, but the two algorithms differ greatly in the number of swaps necessary. For these reasons many modern algorithm textbooks avoid using the bubble sort algorithm in favor of insertion sort.

2.3.2 Due to its simplicity, bubble sort is often used to introduce the concept of an algorithm, or a sorting algorithm, to introductory **computer science** students.

```
repeat
    swapped = false
    for i = 1 to n-1 inclusive do
        /* if this pair is out of order */
        if A[i-1] < A[i] then
            /* swap them and remember something changed */
            swap( A[i-1], A[i] )
            swapped = true
        end if
    end for
    until not swapped
end procedure
```

2.3.2 Pseudocode for Bubble Sort

```
procedure bubbleSort ( A : list of sort table items )
    n = length(A)
    repeat
        swapped = false
        for i = 1 to n-1 inclusive do
            /* if this pair is out of order */
            if A[i-1] < A[i] then
                /* swap them and remember something changed */
                swap( A[i-1], A[i] )
                swapped = true
            end if
        end for
        until not swapped
    end procedure
```

[End of inner loop]

[End of Step 1 outer loop.]

2.4 Algorithm Description

Bubble Sort Algorithm

BUBBLE (DATA, N)

Here DATA is an array with N elements. This algorithm sorts the elements in DATA.

Let us consider an array of numbers "5 1 4 2 8", and sort the array

1. Repeat Steps 2 and 3 for K=1 to N-1.

2. Set PTR :=1. [Initializes pass pointer PTR.] Four passes will be

3. Repeat while PTR =< N - K. [Executes pass.]

(a) If DATA [PTR] < DATA [PTR+1] then:

Interchange DATA [PTR] and DATA [PTR+1].

[End of If structure.]

(b) Set PTR:=PTR+1.

[End of inner loop.]

[End of Step 1 outer loop.]

4. Exit.

2.5 Step-by-step example

In this task, the goal is to sort an array of elements using the bubble sort algorithm. The elements must have a total order and the index of the array can be of any discrete type. For languages where this is not possible, sort an array of integers.

Let us take the array of numbers "5 1 4 2 8", and sort the array from greatest number to lowest number using bubble sort. In each step, elements written in bold are being compared. Four passes will be required.

First Pass:

$(5 \ 1 \ 4 \ 2 \ 8) \rightarrow (5 \ 1 \ 4 \ 2 \ 8)$, Here, algorithm compares the first two elements, and swap since $5 < 1$.

$(5 \ 1 \ 4 \ 2 \ 8) \rightarrow (5 \ 4 \ 1 \ 2 \ 8)$, Swap since $1 < 4$

$(5 \ 4 \ 1 \ 2 \ 8) \rightarrow (5 \ 4 \ 2 \ 1 \ 8)$, Swap since $1 < 2$

$(5 \ 4 \ 2 \ 1 \ 8) \rightarrow (5 \ 4 \ 2 \ 8 \ 1)$, Now, since these elements are already in order ($1 < 8$), algorithm swap them.

Second Pass:

$(5 \ 4 \ 2 \ 8 \ 1) \rightarrow (5 \ 4 \ 2 \ 8 \ 1)$

$(5 \ 4 \ 2 \ 8 \ 1) \rightarrow (5 \ 4 \ 2 \ 8 \ 1)$

$(5 \ 4 \ 2 \ 8 \ 1) \rightarrow (5 \ 4 \ 8 \ 2 \ 8)$, Swap since $2 < 8$

$(5 \ 4 \ 8 \ 2 \ 1) \rightarrow (5 \ 4 \ 8 \ 2 \ 1)$

Third Pass:

$(5 \ 4 \ 8 \ 2 \ 1) \rightarrow (5 \ 4 \ 8 \ 2 \ 1)$

$(5 4 8 2 1) \rightarrow (5 8 4 2 1)$, Swap since $4 < 8$

$(5 8 4 2 1) \rightarrow (5 8 4 2 1)$

$(5 8 4 2 1) \rightarrow (5 8 4 2 1)$

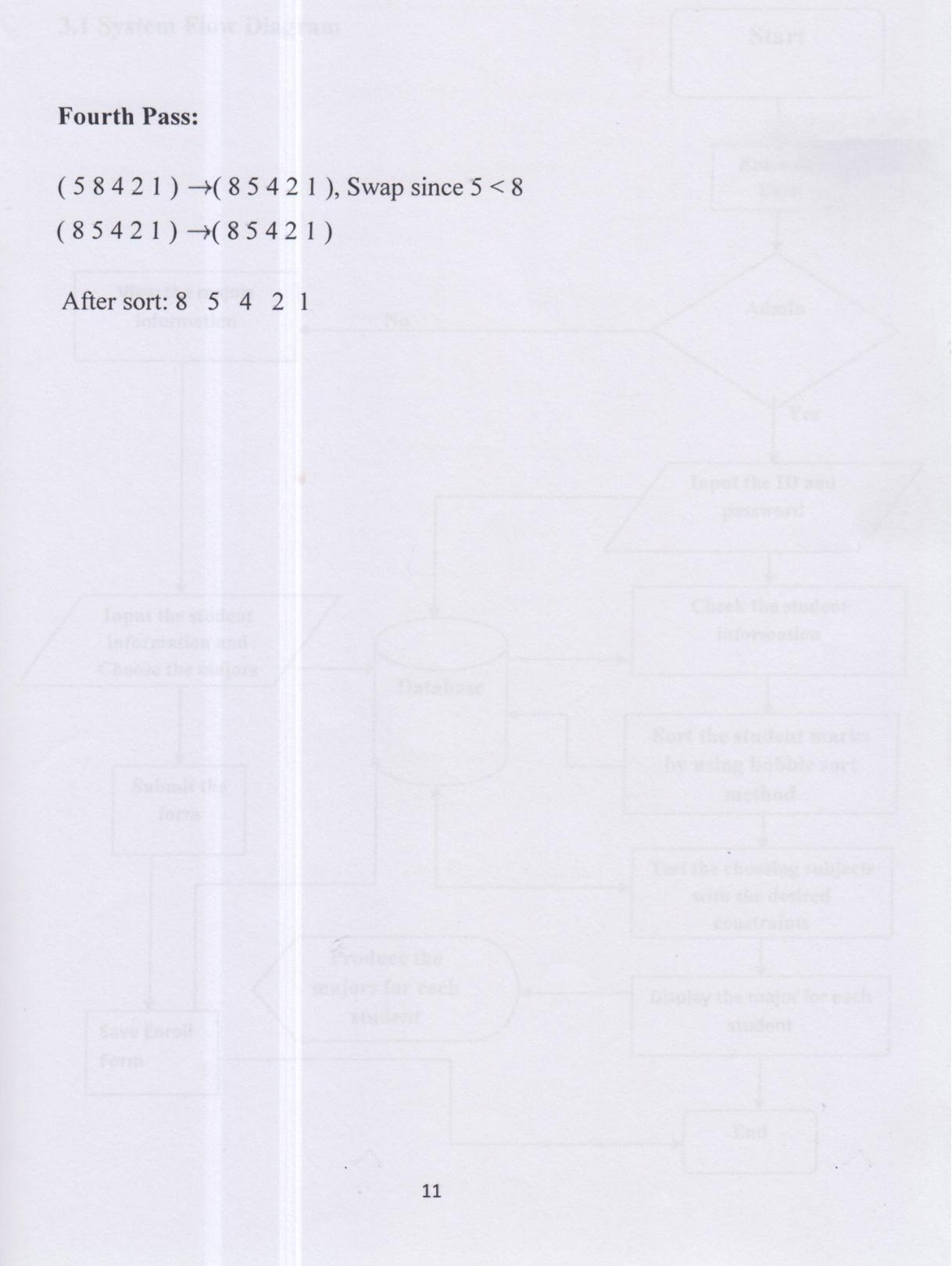
3.1 System Flow Diagram

Fourth Pass:

$(5 8 4 2 1) \rightarrow (8 5 4 2 1)$, Swap since $5 < 8$

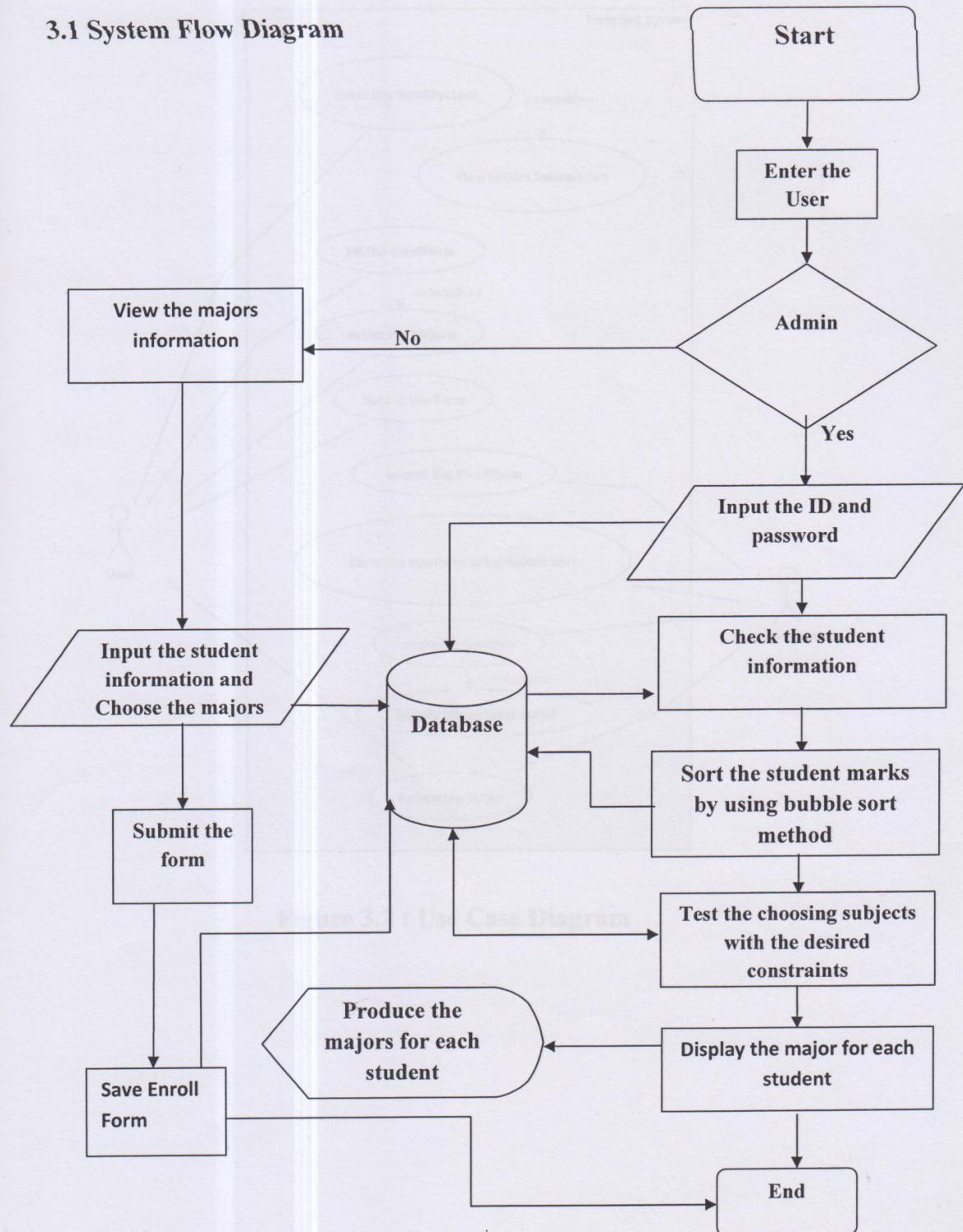
$(8 5 4 2 1) \rightarrow (8 5 4 2 1)$

After sort: 8 5 4 2 1



DESIGN AND IMPLEMENTATION

3.1 System Flow Diagram



3.2 Use Case Diagram

DataSet

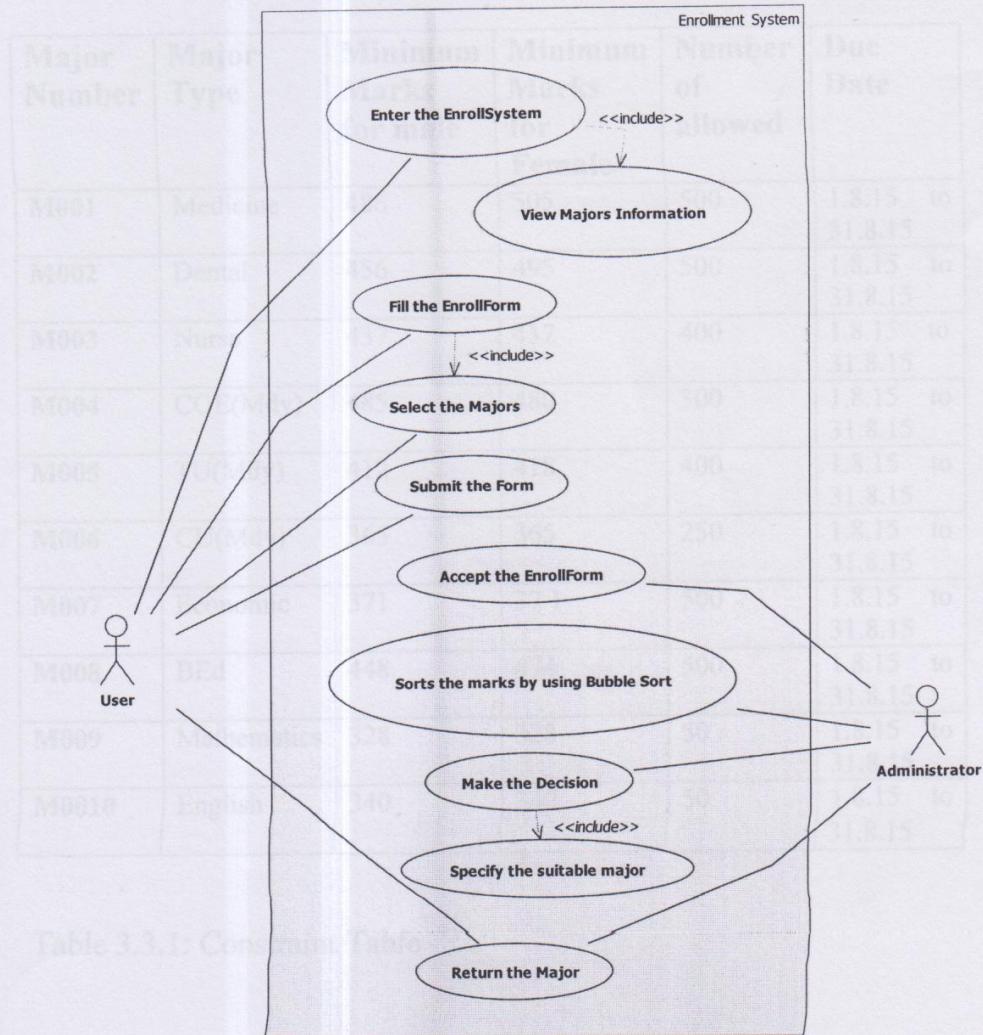


Figure 3.2 : Use Case Diagram

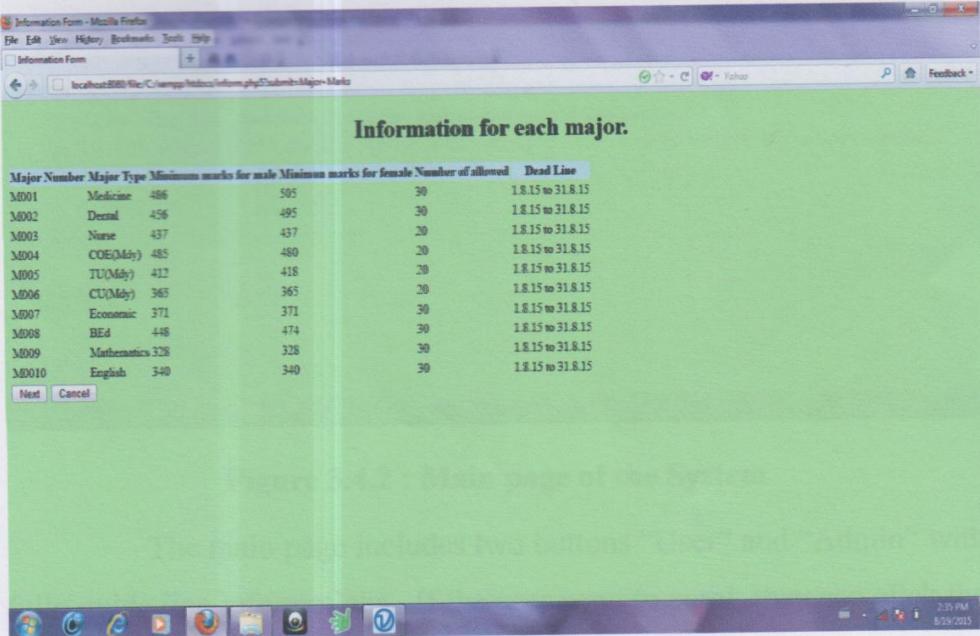
3.3 Data Set Tables

DataSet

Major Number	Major Type	Minimum Marks for male	Minimum Marks for Female	Number of allowed	Due Date
M001	Medicine	486	505	500	1.8.15 to 31.8.15
M002	Dental	456	495	500	1.8.15 to 31.8.15
M003	Nurse	437	437	400	1.8.15 to 31.8.15
M004	COE(Mdy)	485	480	300	1.8.15 to 31.8.15
M005	TU(Mdy)	412	418	400	1.8.15 to 31.8.15
M006	CU(Mdy)	365	365	250	1.8.15 to 31.8.15
M007	Economic	371	371	500	1.8.15 to 31.8.15
M008	BEd	448	474	500	1.8.15 to 31.8.15
M009	Mathematics	328	328	50	1.8.15 to 31.8.15
M0010	English	340	340	50	1.8.15 to 31.8.15

Table 3.3.1: Constraint Table

3.4 Implementation of the Project



Information Form - Mozilla Firefox

Information Form

Information for each major.

Major Number	Major Type	Minimum marks for male	Minimum marks for female	Number of allowed	Dead Line
M001	Medicine	486	505	30	18.15 to 31.8.15
M002	Dental	456	495	30	18.15 to 31.8.15
M003	Nurse	437	437	20	18.15 to 31.8.15
M004	COE(Mdy)	485	480	20	18.15 to 31.8.15
M005	TU(Mdy)	412	418	20	18.15 to 31.8.15
M006	CU(Mdy)	365	365	20	18.15 to 31.8.15
M007	Economic	371	371	30	18.15 to 31.8.15
M008	BEd	448	474	30	18.15 to 31.8.15
M009	Mathematics	328	328	30	18.15 to 31.8.15
M0010	English	340	340	30	18.15 to 31.8.15

Next Cancel

Figure 3.4.1 : Information page of the system

In the information page, the informations are fully declared. User can be seen every desired information and the “Next” button can be performed if the user want to see more. If not, the “Cancel” button may be click to leave from the web page.

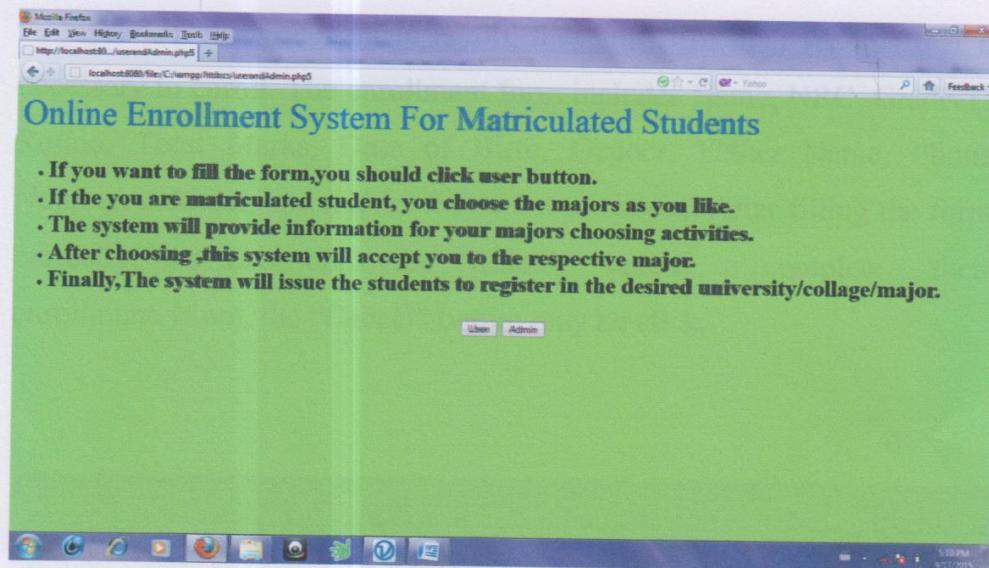


Figure 3.4.2 : Main page of the System

The main page includes two buttons “User” and “Admin” with fully guide line informations. If the user want to enrol, they can click the “User” button. And the “admin” button is only for the authorized people.

A screenshot of a Microsoft Firefox browser window. The title bar says 'Enrollment Form - Mozilla Firefox'. The address bar shows 'localhost:8080/C:/xampp/htdocs/linkbutton.php5'. The main content area has a green background and the title 'Enrollment Form for Matriculated Student'. It contains a form with fields: Name (text input), NRC (text input), Grade-11 Rollno (text input), Total Mark (text input), Date of Birth (date input), Gender (radio buttons for Male and Female), Father Name (text input), Phone Number (text input), and Address (text input). Below the form is a list of checkboxes for majors: Medicine, Dental, Nurse, COE(Mdy), TU(Mdy), CU(Mdy), Economic, BEd, Mathematics, English. At the bottom are buttons for 'Submit', 'Cancel', and 'Print Student'. The status bar at the bottom of the browser window shows '5:10 PM 3/17/2015'.

Figure 3.4.3 : Enrollment form

If the user want to enroll, they must fill their records that is necessary to enroll. The enrollment form includes Name, NRC, Grade-11 Rollno, Total Marks, Date of Birth, Gender, Father Name, Phone Number, Address, and majors they want to choose. After filling the form correctly, the user click the “Submit” button to complete their enrollment. If not, the “Cancel” button may be click.

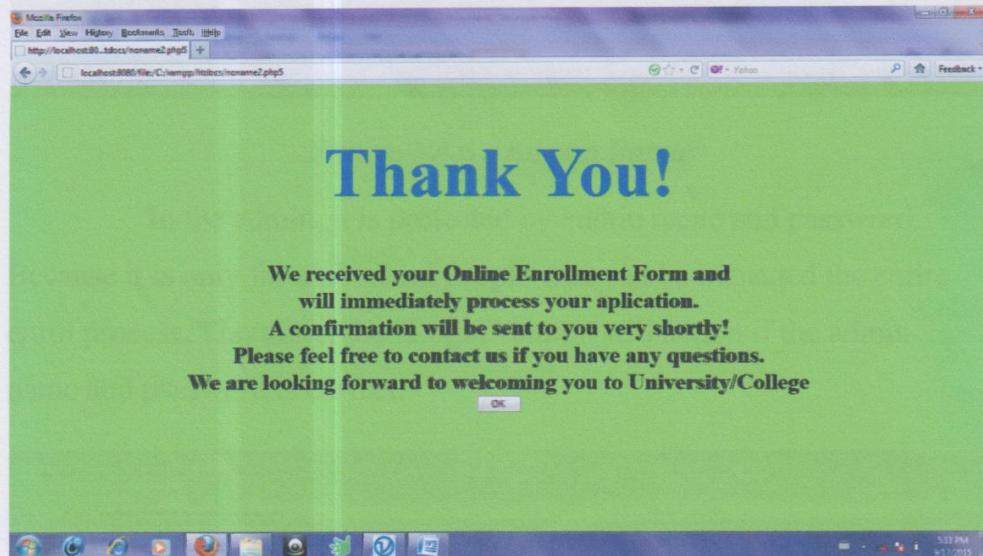


Figure 3.4.4 : Reply message to user

The message will be replied when the system received the user data. It include “OK” button to completely finish the enroll process by the users.

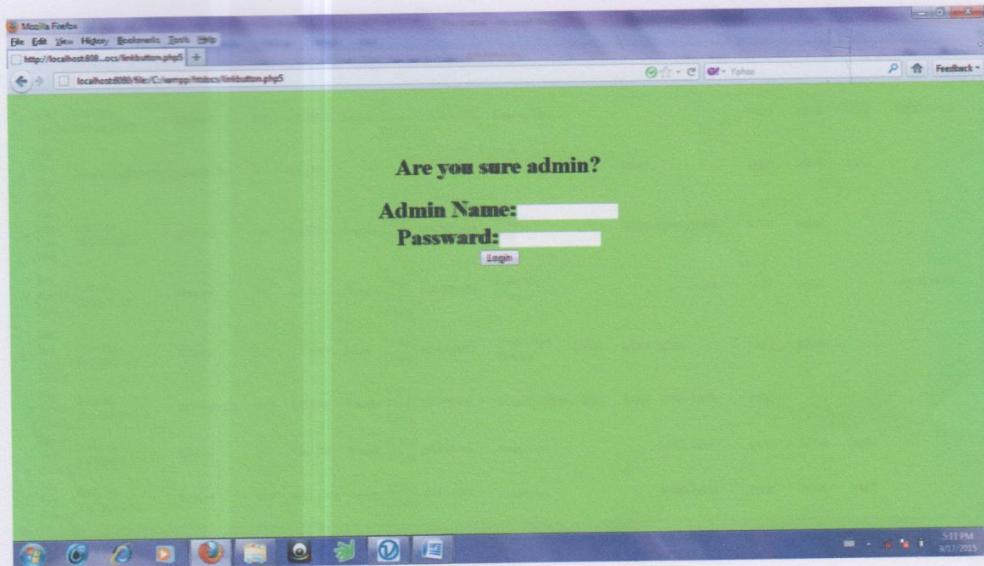


Figure 3.4.5 : Admin Form

In the admin, it is protected by admin name and password.

Because it is only for authorized people who can be managed the entire enrol process. Therefore, the “Login” button will action if the admin name and password is correct.

Before Table

No	Name	NRC	Gender	RollNo	Total Marks	Date of Birth	Gender	Father Name	Phone Number	Address	Medicine	Dental	Nurse	CDE(Mdy)	TU(Mdy)	CU(Mdy)	Economic	BED	Mathemat
1	Mg Win Naing	5.Ba Ta La(N)1101176	MM-13	542	1.1.1993	Male	U Hs Min	09-7979765433	Chaw MyaTharzi	M001	M002	M003	M004						
2	Mae Mi Moe	9/Ah Ma Za(N)044556	MKPA-332	343	4.4.1992	Female	U Myint Zaw	09-3696581776	Chaw Mya		M005	M006	M007		M009				
3	Mg Nyo Yae	9.Ba Ta La(N)101199	MY-379	521	2.12.1994	Male	U Ko Ko	09-402505505	Chaw Tawng	M001	M002	M003	M004		M005				
4	Moe Moe Myint	9/Ah Ma Za(N)033192	MM-231	497	10.11.1998	Female	U Aung Thit	09-402549235	Chaw Aye Tharzzi		M002	M003	M004		M005				
5	Phyo Ma Ma	9/Ah Ma Za(N)033460	MM-131	506	7.8.1996	Female	U Kyaw Thu	09-402573356	Chaw Tawng	M001	M002	M003	M004		M005				
6	Mg The Lwin	9/KaMaSe(N)987665	MM-135	476	6.7.1997	Male	U Hs Thaw	09-43150347	Chaw MyaTharzi		M002	M004		M005	M006	M007			
7	Mg Phyoe Aung	9/Ah Ma Za(N)987653	MMNNM-231	453	19.10.1997	Male	U Min Min	0933100881	Chaw Aye Tharzzi		M002	M003	M004		M005	M006			

Table 1 (Top):

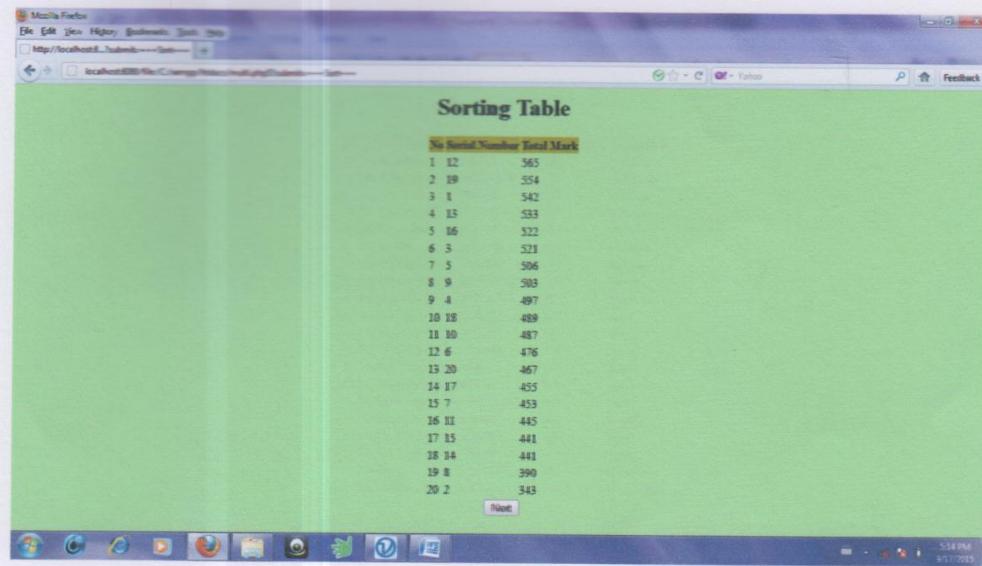
8	Ma	9/Ah Ma	MM-165	390	4.5.1997	Female	U Kyaw Kyaw	0987654234	Amarapura	M005	M006	M007	M008	M009
9	Ma	9/Ah Ma	MM-165	390	4.5.1997	Female	U Kyaw Kyaw	0987654234	Amarapura	M005	M006	M007	M008	M009
10	Ma	9/Ah Ma	MM-243	487	3.4.1996	Female	U La Young	0987654234	Aung Maye Thar	M002	M003	M004	M005	M006
11	Ma	9/Ah Ma	MM-98	445	4.4.1994	Female	U Thant Zin Naing	0987342513	Aung Maye Thazan	M004	M005	M006	M008	M009
12	Ma	9/Ah Ma	MM-11	565	5.7.1997	Male	U Yan Naing	09-4310987	Aung Maye Thazan	M001	M002	M003	M005	M006
13	Ngwe	9/Ah Ma	MMNM-132	533	4.1.1998	Female	U Than Naing	02-378564	ChauMyaThazzi	M001	M002	M003	M004	M005
14	Tay	9/Ah Ma	MM-24	441	12.3.1997	Female	U Tun Naing	02-876543	Amarapura	M003	M004	M005	M006	M007
15	Tay	9/Ah Ma	MM-24	441	12.3.1997	Female	U Tun Naing	02-876543	Amarapura	M003	M004	M005	M006	M007

Table 2 (Bottom):

13	Ngwe	9/Ah Ma	MMNM-132	533	4.1.1998	Female	U Than Naing	02-378564	ChauMyaThazzi	M001	M002	M003	M004	M005
14	Tay	9/Ah Ma	MM-24	441	12.3.1997	Female	U Tun Naing	02-876543	Amarapura	M003	M004	M005	M006	M007
15	Tay	9/Ah Ma	MM-24	441	12.3.1997	Female	U Tun Naing	02-876543	Amarapura	M003	M004	M005	M006	M007
16	Phone	9/KaMaSa(N)912322	MM-90	522	6.2.1995	Male	U San Min	02-77665	Chau Taung	M001	M002	M003	M004	M006
17	Thaw	9/Ah Ma	MM-95	455	16.5.1997	Male	U Thein Naing	02-33443	Aung Maye Thazan	M002	M003	M004	M005	M009
18	Poe	9/Ah Ma	MM-55	489	16.11.1998	Female	U Paing Thu	02-66774	Aung Maye Thazan	M002	M003	M004	M005	M006
19	Thiri	9/NZN123456	MMNM-44	554	1.1.1996	Female	U San Lwin	02-55664	Amarapura	M004		M007	M008	M009
20	Pan	9/Ah Ma	MM-132	467	1.3.1995	Female	U Soe	02-99887	Aung Maye Thazan	M003	M004	M005	M006	

Figure 3.4.6 : Before Table

If the “Login” is successful, the administrator can be seen the before table at first. In this table, the students’ information will be stored in randomly .It includes the “Sort” button to apply the Bubble sort method and then to see the sorted table.

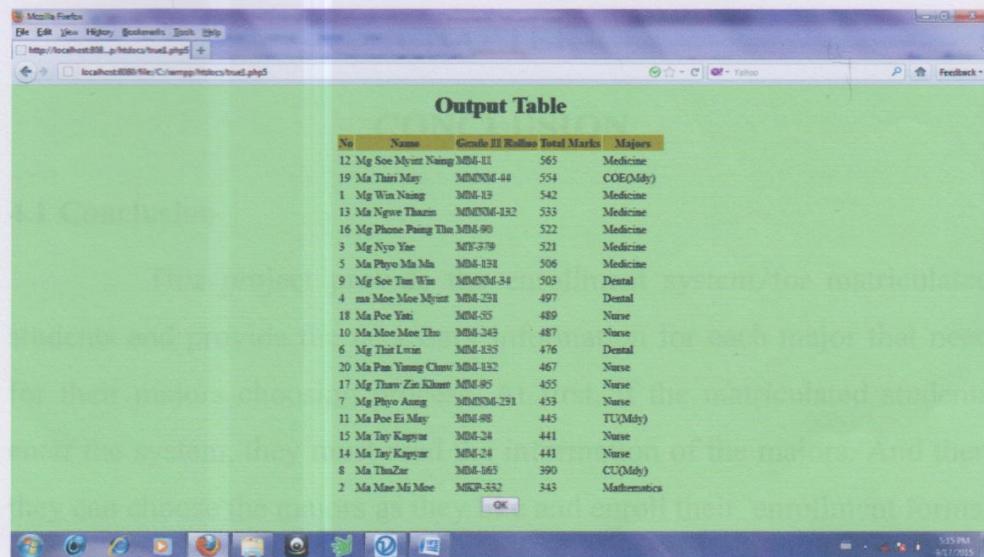


A screenshot of a Mozilla Firefox browser window. The title bar says "Mozilla Firefox". The address bar shows "http://localhost:8080/SortingTable/Students". The main content area is titled "Sorting Table" and contains a table with 20 rows. The table has columns for "No", "Serial Number", and "Total Mark". The data is sorted in descending order of total mark. A "Next" button is visible at the bottom of the table. The browser interface includes a toolbar with icons for back, forward, search, and other functions. The taskbar at the bottom shows various application icons. The system tray on the right indicates "5149M" and the date "8/7/2015".

No	Serial Number	Total Mark
1	12	565
2	19	554
3	1	542
4	15	533
5	16	522
6	3	521
7	5	506
8	9	503
9	4	497
10	18	488
11	10	487
12	6	476
13	20	467
14	17	455
15	7	453
16	11	445
17	15	441
18	14	441
19	8	390
20	2	343

Figure 3.4.7 : Sorting Table

In the sorting table, Bubble sort is applied to sort the students' total marks as in decreasing order. After sorting the students' marks with the desired constraints.



Output Table				
No	Name	Grade-11 Rollno	Total Marks	Majors
12	Mg Soe Myint Naing	MM-11	565	Medicine
19	Ma Thiri May	MMNM-44	554	COE(Mdly)
1	Mg Win Naing	MM-13	542	Medicine
13	Ma Ngwe Thazza	MMNM-132	533	Medicine
16	Mg Phone Paing Thu	MM-90	522	Medicine
3	Mg Nyo Yae	MM-379	521	Medicine
5	Ma Phyoe Ma Ma	MM-131	506	Medicine
9	Mg Soe Tin Win	MMNM-34	503	Dental
4	Ma Moe Moe Myint	MM-291	497	Dental
18	Ma Poe Yint	MM-35	489	Nurse
10	Ma Moe Moe Thu	MM-243	487	Nurse
6	Mg Thiri Lwin	MM-355	476	Dental
20	Ma Pan Yinn Kyaw	MM-132	467	Nurse
17	Mg Thaw Zin Khan	MM-85	455	Nurse
7	Mg Phyoe Aung	MMNM-291	453	Nurse
11	Ma Poe Ei May	MM-88	445	TU(Mdly)
15	Ma Tay Kappar	MM-24	441	Nurse
14	Ma Tay Kappar	MM-24	441	Nurse
8	Ma ThuZar	MM-165	390	CU(Mdly)
2	Ma Mae Mi Moe	MMGP-352	343	Mathematics

Figure 3.4.8 : Output table

Finally, the system produce the output table for each student together with No, Name, Grade-11 Rollno, Total Marks, Majors and the administrators can easily be seen the students' major.

4.2 Advantages of the Project

By using this system, informations about educational center can be seen easily. As a result, students enrollment can be made in a timely manner without needing to go anywhere. The system provides placing students in the suitable universities /colleges/majors respectively. The perfect services and extra information are provided by the educational center can be looked in this system.

4.3 Further Extension

This project can go on better situation by updating the constraints information by the administrators in every year. This project can be reduced online traffic by using concurrency control technique.

2. JANEY VALADAS

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References

1. Ph.D, Professor of Mathematics, Temple University
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2. JANET VALADE
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