



# Project Report

NSU Vaccine Management System

CSE311L Database System Lab

Department of Electrical & Computer Engineering

North South University

# NSU Vaccine Management System – NSUVMS

## Introduction

NSU vaccine management system (NSUVMS) is a web-based project that can manage vaccination information of the university students and staffs also has admin controls to manage vaccine information.

This website can manage the vaccination data for the university that help higher authority to take next decisions based on the analytics. From user level view, user can create a unique profile by signing up. User can select and enter their information and update time to time. Editing profile and removing profile is also activated. The most important thing here is the vaccine name and vaccine dates of a user and system will check them. This website can handle user data validation properly so that admin can have a correct result based on users' data.

There is admin view level of this system. Admin can search every user by their unique NSU id. There is the admin dashboard where admin can see analytical result from users' vaccination data and can manage university departments, vaccine name, vaccine companies and other information. Only admin has the power to add or remove department and vaccine data. Student or staff cannot access to the admin panel.

NSUVMS can help the university authority to take their decisions from the resultant statistics and monitoring students vaccination progress. This will help them to take necessary steps for upcoming days.

## Background Research

Motive of this project is COVID-19 vaccination system. Government is providing vaccine for everyone but it takes time to complete every student's vaccination. Also, without vaccination universities cannot reopen their campus and continue academic activities. So, university authority could not take any steps in this situation.

NSUVMS provides the solution to the authority of university to manage vaccination process of their students and staff's together under a dashboard. Also, authority have analytical results that will help them to take their next decisions from student and staffs vaccination data.

NSUVMS will provide the solution for authority to see the progress of their vaccination process and they can take necessary steps. NSUVMS is more focused on the progress of NSU students and staffs. We have tried to solve the problem for the authority. And for the last one year we have faced lots of problems regarding reopening campus. So, we tried to solve the problem.

## Technologies

Tech stack that has been used in the project:

- HTML
- CSS
- PHP
- JavaScript
- MySQL
- Google Charts

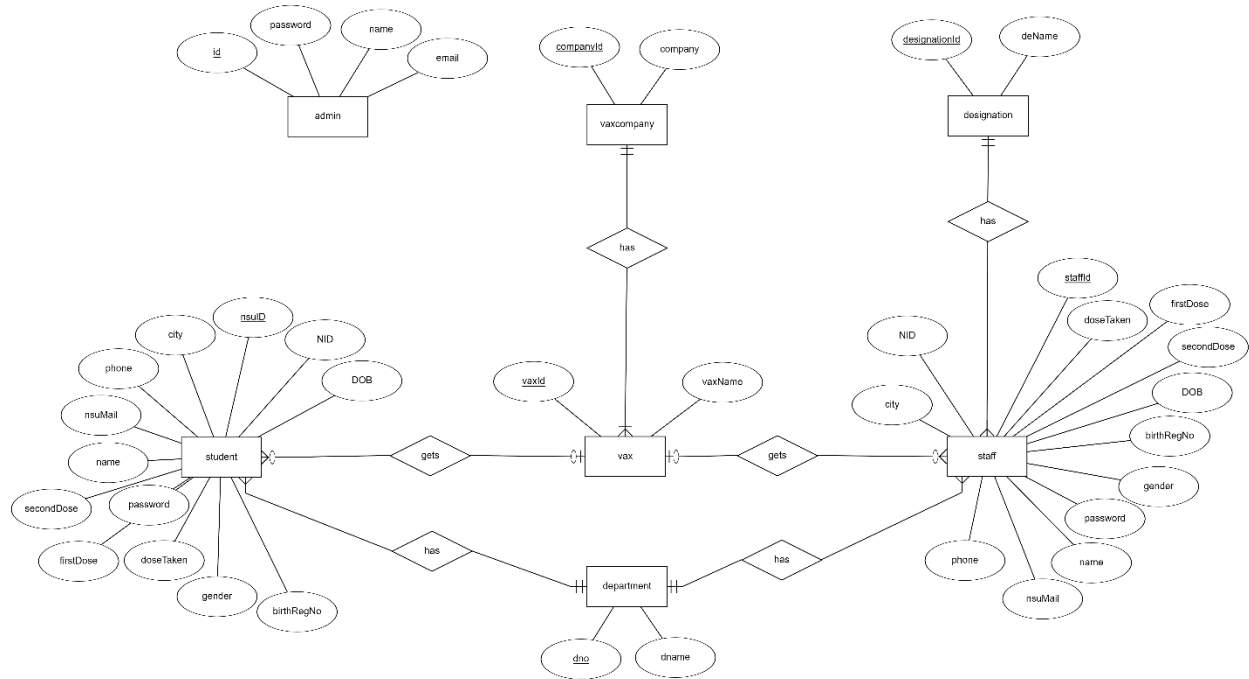
## Project Design

### Description of users:

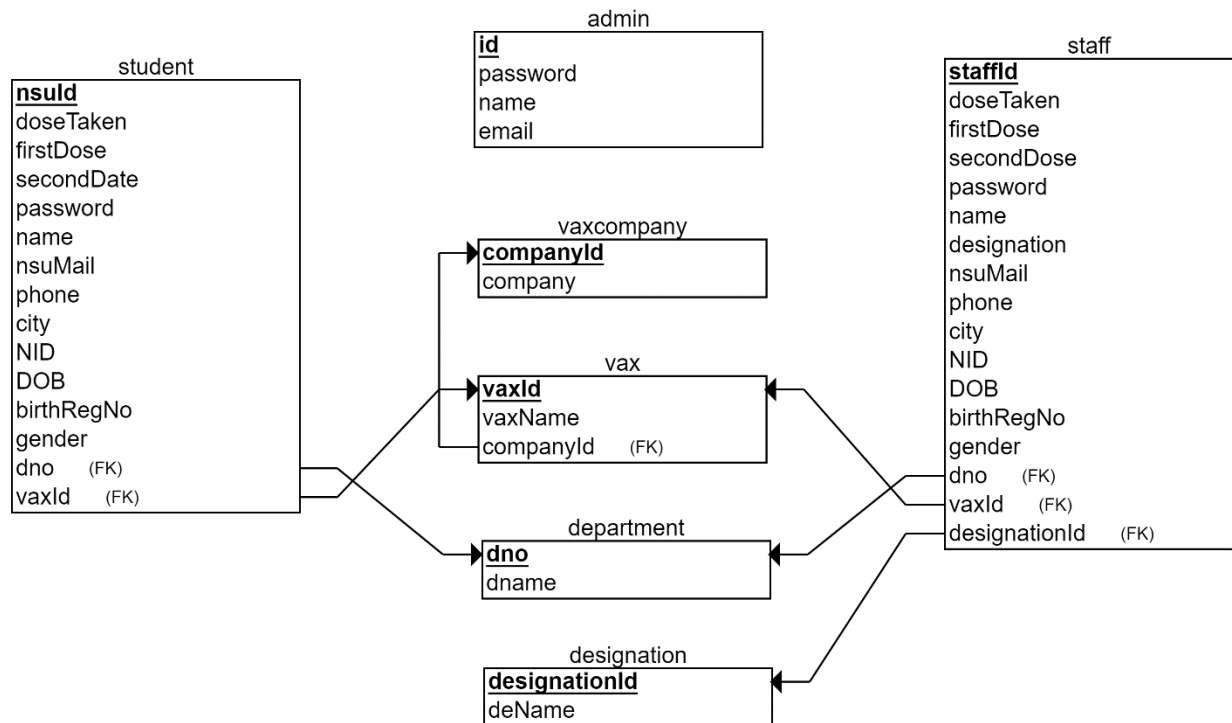
There are three types of users. Only admin has the more power than users and users individual roles and features are given below in the table form.

User Type	Roles	Features
Admin	<ul style="list-style-type: none"><li>• Watching all resultant statistics</li><li>• Add/Remove Department/Designation</li><li>• Add/Remove Vaccine/Company</li><li>• Search user by Id</li></ul>	<ul style="list-style-type: none"><li>• Unique identity</li><li>• Password</li></ul>
Student	<ul style="list-style-type: none"><li>• Sign up/Log in</li><li>• Update profile</li><li>• Edit profile</li><li>• Password recovery</li><li>• Watch total statistics</li></ul>	<ul style="list-style-type: none"><li>• Unique Identity</li><li>• Personal Identity</li><li>• Vaccine Name</li><li>• Dose Taken</li><li>• Dose Taken Dates</li><li>• Mail</li><li>• Password</li><li>• Department</li></ul>
Staff		

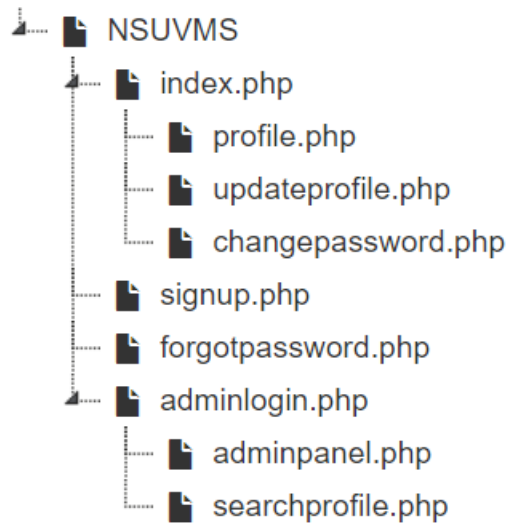
## ER Diagram:



## Relational Model:

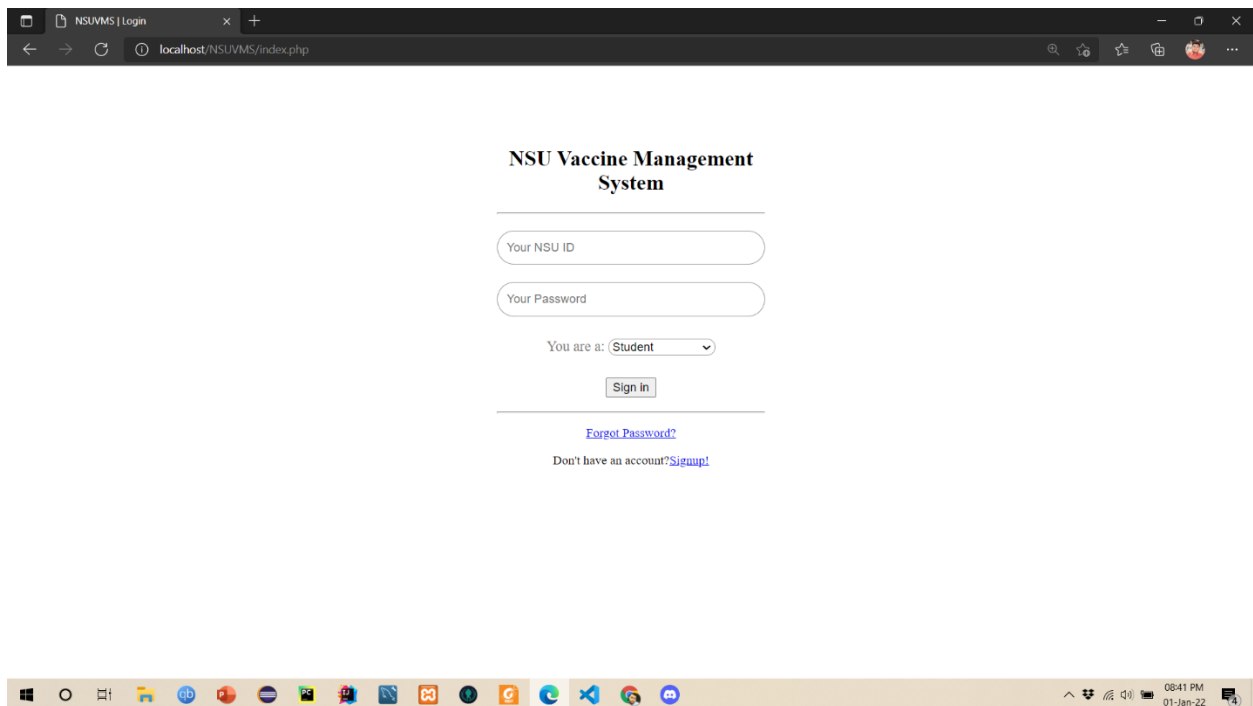


## Sitemap

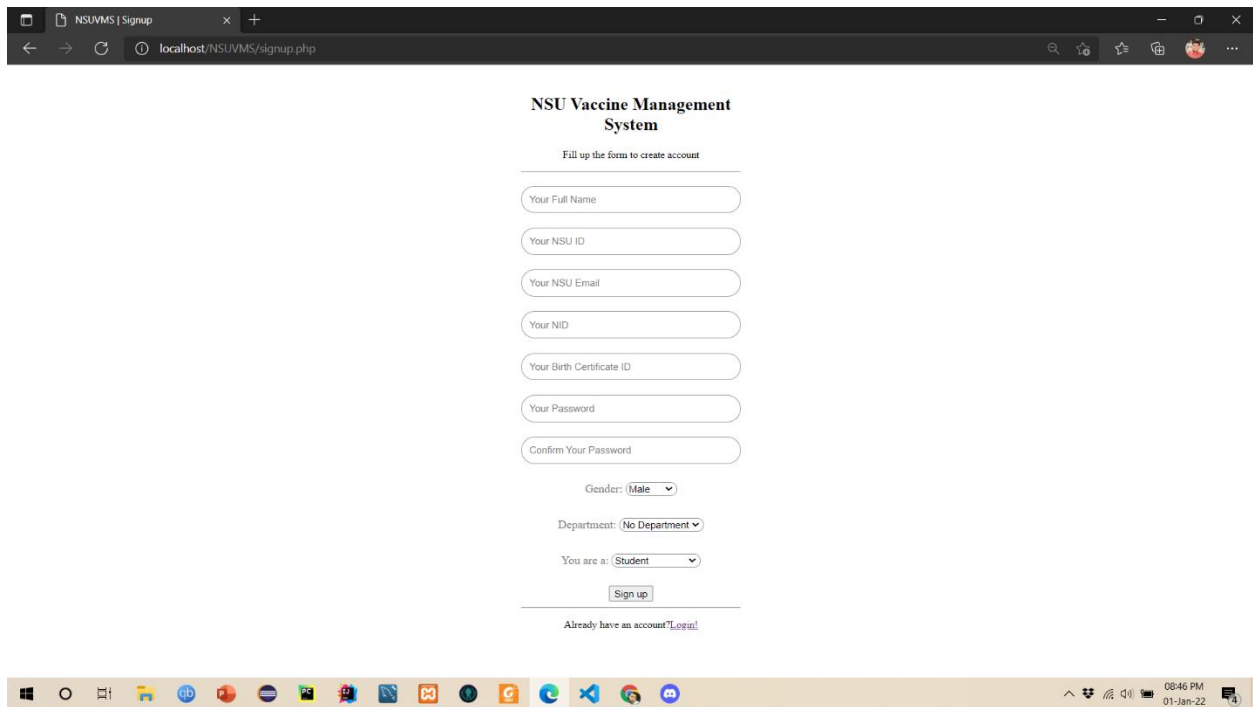


## Snapshots

User Login Page (index.php):



## Signup Page (signup.php):



The screenshot shows a web browser window with the address bar displaying 'localhost/NSUVMS/signup.php'. The page title is 'NSU Vaccine Management System'. Below the title, there is a instruction 'Fill up the form to create account'. The form consists of several input fields: 'Your Full Name', 'Your NSU ID', 'Your NSU Email', 'Your NID', 'Your Birth Certificate ID', 'Your Password', and 'Confirm Your Password'. Below these fields are two dropdown menus for 'Gender' (set to 'Male') and 'Department' (set to 'No Department'). There is also a dropdown for 'You are a:' (set to 'Student'). A 'Sign up' button is located below the dropdowns. At the bottom of the form, there is a link 'Already have an account? [Login](#)'. The Windows taskbar is visible at the bottom of the browser window.

NSU Vaccine Management System

Fill up the form to create account

Your Full Name

Your NSU ID

Your NSU Email

Your NID

Your Birth Certificate ID

Your Password

Confirm Your Password

Gender: (Male)

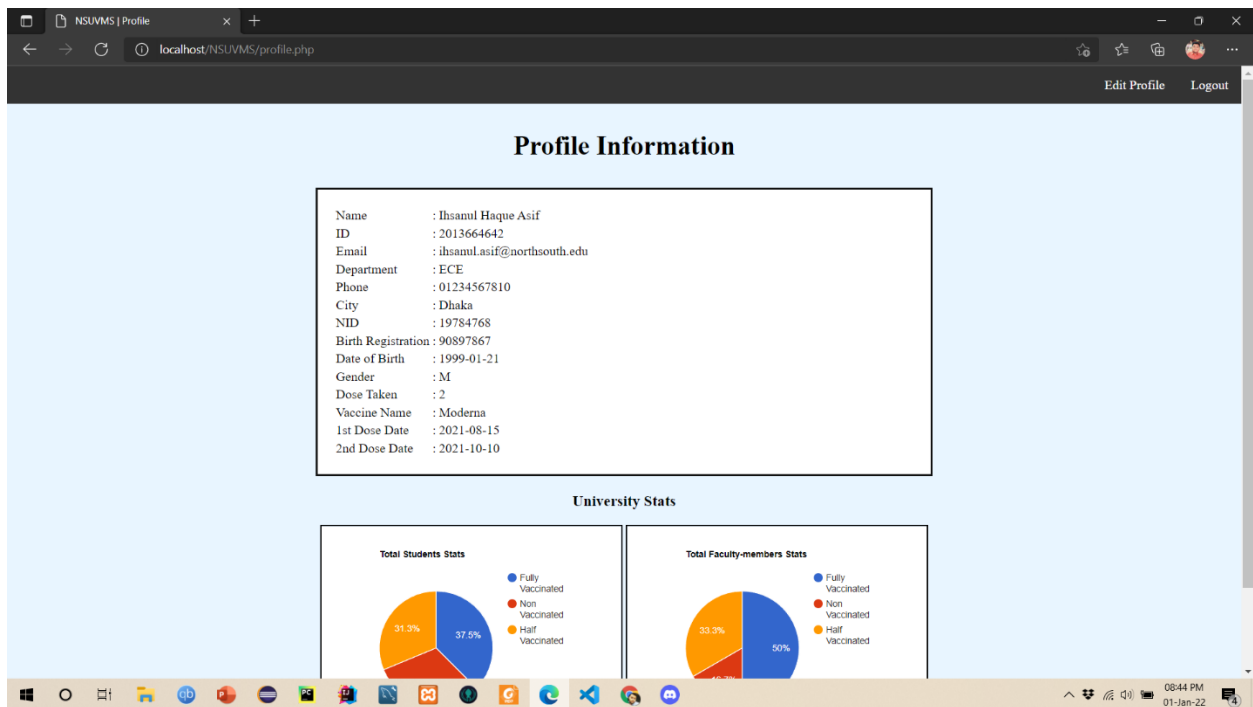
Department: (No Department)

You are a: (Student)

Sign up

Already have an account? [Login](#)

## User Profile (profile.php):



The screenshot shows a web browser window with the address bar displaying 'localhost/NSUVMS/profile.php'. The page title is 'Profile Information'. At the top right, there are links for 'Edit Profile' and 'Logout'. The main content area displays a list of user information: Name, ID, Email, Department, Phone, City, NID, Birth Registration, Date of Birth, Gender, Dose Taken, Vaccine Name, 1st Dose Date, and 2nd Dose Date. Below this information, there is a section titled 'University Stats' which contains two pie charts: 'Total Students Stats' and 'Total Faculty-members Stats'. The 'Total Students Stats' chart shows 31.0% Fully Vaccinated, 37.5% Non Vaccinated, and 31.5% Half Vaccinated. The 'Total Faculty-members Stats' chart shows 33.3% Fully Vaccinated, 50% Non Vaccinated, and 16.7% Half Vaccinated. The Windows taskbar is visible at the bottom of the browser window.

Profile Information

Edit Profile Logout

Name : Ihsanul Haque Asif  
ID : 2013664642  
Email : ihsanul.asif@northsouth.edu  
Department : ECE  
Phone : 01234567810  
City : Dhaka  
NID : 19784768  
Birth Registration : 90897867  
Date of Birth : 1999-01-21  
Gender : M  
Dose Taken : 2  
Vaccine Name : Moderna  
1st Dose Date : 2021-08-15  
2nd Dose Date : 2021-10-10

University Stats

Total Students Stats

Total Faculty-members Stats

31.0% 37.5% 31.5%

33.3% 50% 16.7%

## Update Information Page (updateprofile.php):

**Update Information**

Name	Email
Ihsanul Haque Asif	ihsanul.asif@northsouth.edu
Phone	City
01234567810	Dhaka
Date of Birth	Gender
21-Jan-1999	Male
NID	Birth Registration No
19784768	90897867
Department	Vaccine Name
ECE	Moderna
Date of 1st Dose	Date of 2nd Dose
15-Aug-2021	10-Oct-2021

[Update](#) [Delete Account](#)

## Update Password Page (changepassword.php):

**Update Password**

Enter your old password

Enter your new password

[Update Password](#)

### Forgot Password Page (forgotpassword.php):

The screenshot shows a web browser window with the address bar displaying 'localhost/NSUVMS/forgotpassword.php'. The page content is centered and includes the title 'NSU Vaccine Management System' in bold. Below the title is a sub-header: 'Enter the NSU Email that you used to create account and click reset password. A new password will be sent to your nsu email'. There is a text input field labeled 'NSU Email' and a button labeled 'Reset password'.

NSU Vaccine Management System

Enter the NSU Email that you used to create account and click reset password. A new password will be sent to your nsu email

NSU Email

Reset password

The Windows taskbar at the bottom shows various application icons and the system clock indicating 08:45 PM on 01-Jan-22.

### Admin Login Page (adminlogin.php):

The screenshot shows a web browser window with two tabs: 'NSUVMS | Login' and 'NSUVMS | Admin Login'. The address bar displays 'localhost/NSUVMS/adminlogin.php'. The page content is centered and includes the title 'NSU Vaccine Management System' in bold, followed by the sub-header 'Admin Login'. There are two text input fields, one labeled 'Your ID' and the other 'Your Password', and a button labeled 'Sign in'.

NSU Vaccine Management System

Admin Login

Your ID

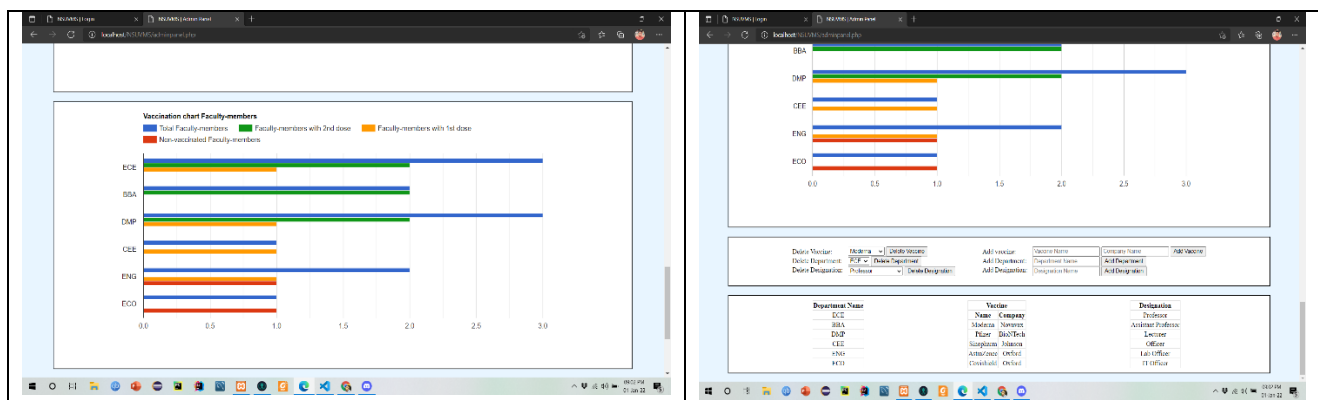
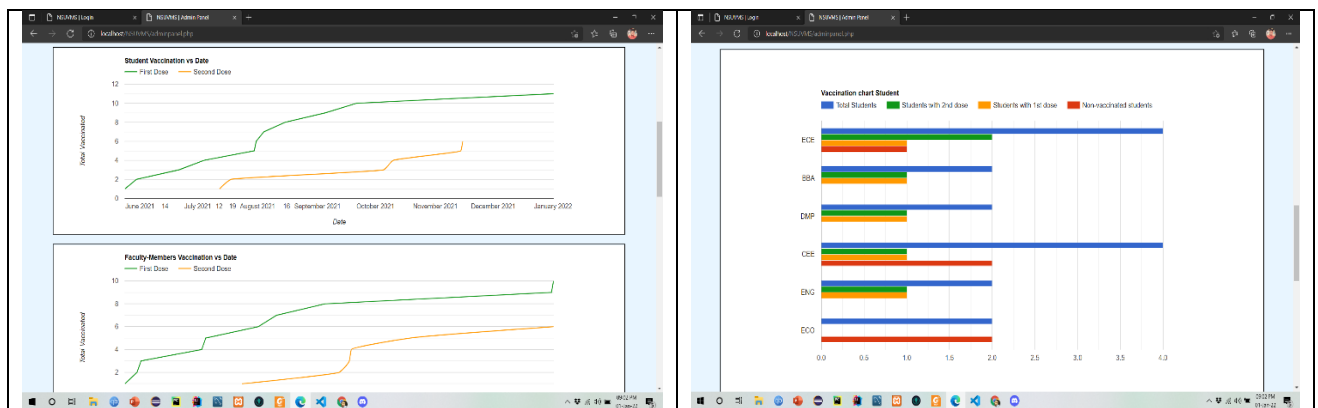
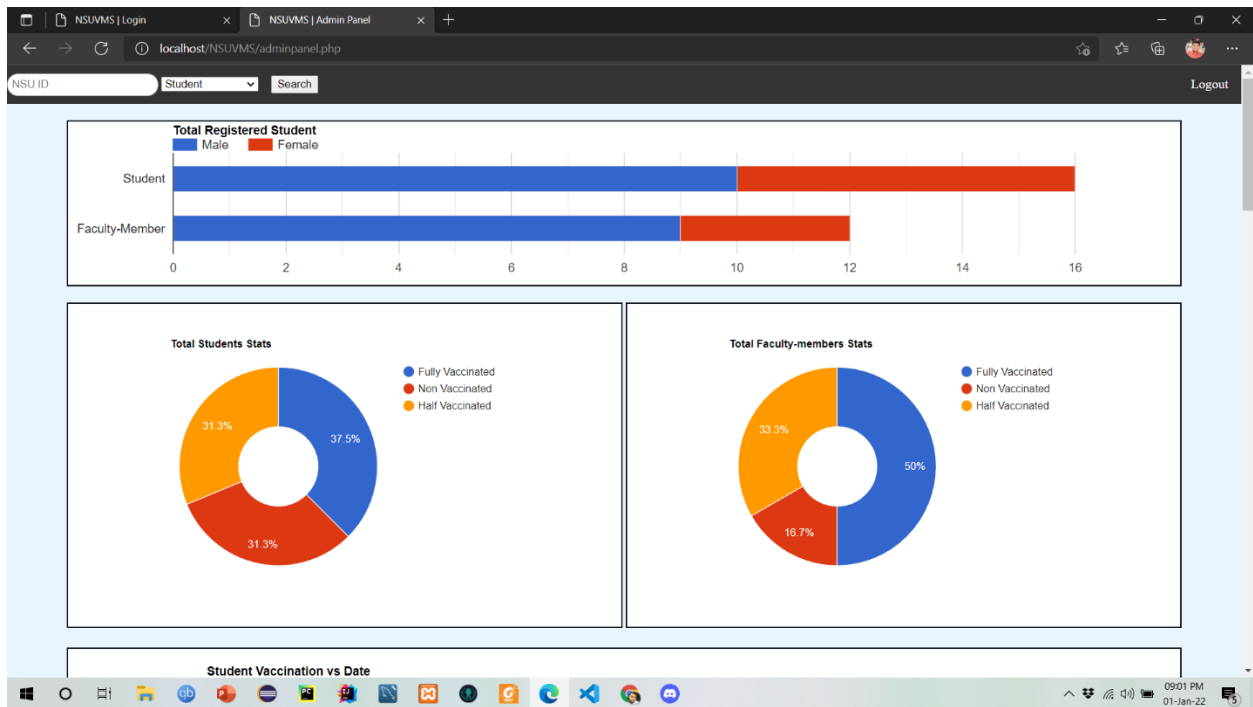
Your Password

Sign in

The Windows taskbar at the bottom shows various application icons and the system clock indicating 08:48 PM on 01-Jan-22.



## Admin Panel View (adminpanel.php):



## Conclusion & Future Work

### **Project success and findings:**

This project has been completed with all the requirements needed. Our web is ready for use and we can see correct output or resulting data from our web application. This project has been tested against several test data and our output was accurate.

### **How this web application can be improved:**

This web application can be improved by applying tools and technologies for large scale of data. There can be implement better queries and reduced time complexity. That will be more efficient for this application. Also, user interface can be improved, its real time technologies can be developed.

## Contributions

### **Ihsanul Haque Asif 2013664642**

Contributes in back-end functions, database design and documentations

### **Shah Alvi Hossain 1721427042**

Contributes in integrating front-end with back-end

### **Md. Nahin Islam 2013356642**

Contributes in front-end design layout