

# ***Teacher Assistant for the online class-Desktop Application***

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## Software Requirements Specification(SRS)

### **Submitted By**

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Section: 05

Group 12

Summer2020

**Contribution**(1. Introduction)

**Hridoy Saha**

**ID: 1611520042**

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**1.3 Intended Audience and Reading Suggestion**

**1.4 Product Scope**

**1.5 Reference**

**Contribution**(2. Overall Description, 3. Specific Requirements, 4.System Features)

**Md. Nur-E-Azam**

**ID: 1512268042**

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**MD. Ashiquer Rahman**

**ID:1512454042**

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# **1. Introduction**

## **1.1 Purpose**

The Teaching Assistant (TA) for an online course can be valuable in allowing an instructor to give more time to teaching, and less time to other kinds of tasks. Toward this goal, possible areas of TA responsibility have been identified in this document based on recommendations from academic sources.

## **1.2 Document Conventions**

Teaching Assistant software are well designed and python is used. Teaching Assistant service are for student where student can see their teacher information.

## **1.3 Intended Audience and Reading Suggestion**

This software is intended for different types of readers such as University admin, system designer, system developer and students. By reading this document a reader can learn about what the project is implemented for and how it will present its basic ideas. There are two users Teacher and students. Teacher controls the whole system. In the beginning we designed a web page like where would be the option to upload document. Login Teacher – Teacher uploaded assignment, quiz, homework, project.

Student login --- submit all assignment, quiz, homework, project.

## **1.4 Product scope**

In this project scope, there are different types of work for teacher. Teacher can modify the whole things like assignment type, project type. This project will help for teacher through online class. This software will be used by the student to upload their home task. So that teacher of the system can evaluate the whole system.

## **1.5 Reference**

<https://www.google.com/>

<https://www.linkedin.com/>

## **2. Overall Description**

Teacher Assistant for the online class-Desktop Application(TADA) is meant to serve as a common platform where management of everyday academic tasks can be carried out conveniently. Our goal is to develop a replacement to the academic portal used at North South University(NSU) making it more users friendly and to promote academic networking among the users.

### **2.1.1 System Interface**

MySQL will be used as web server. The user inputs data via the MySQL Database using Python forms. The actual program that will perform the operations is written in Python.

### **2.1.2 User interface**

The new system shall provide a very intuitive and simple interface to the user and the administrator, so that the user can easily navigate through Login pages, assignments, midterm exam,quiz, final exam,contact information, add data, update data, delete data, clear data, search by ID, search by name, search by contact number and all information is displayed on a display.

### **2.1.3 Memory Constraints**

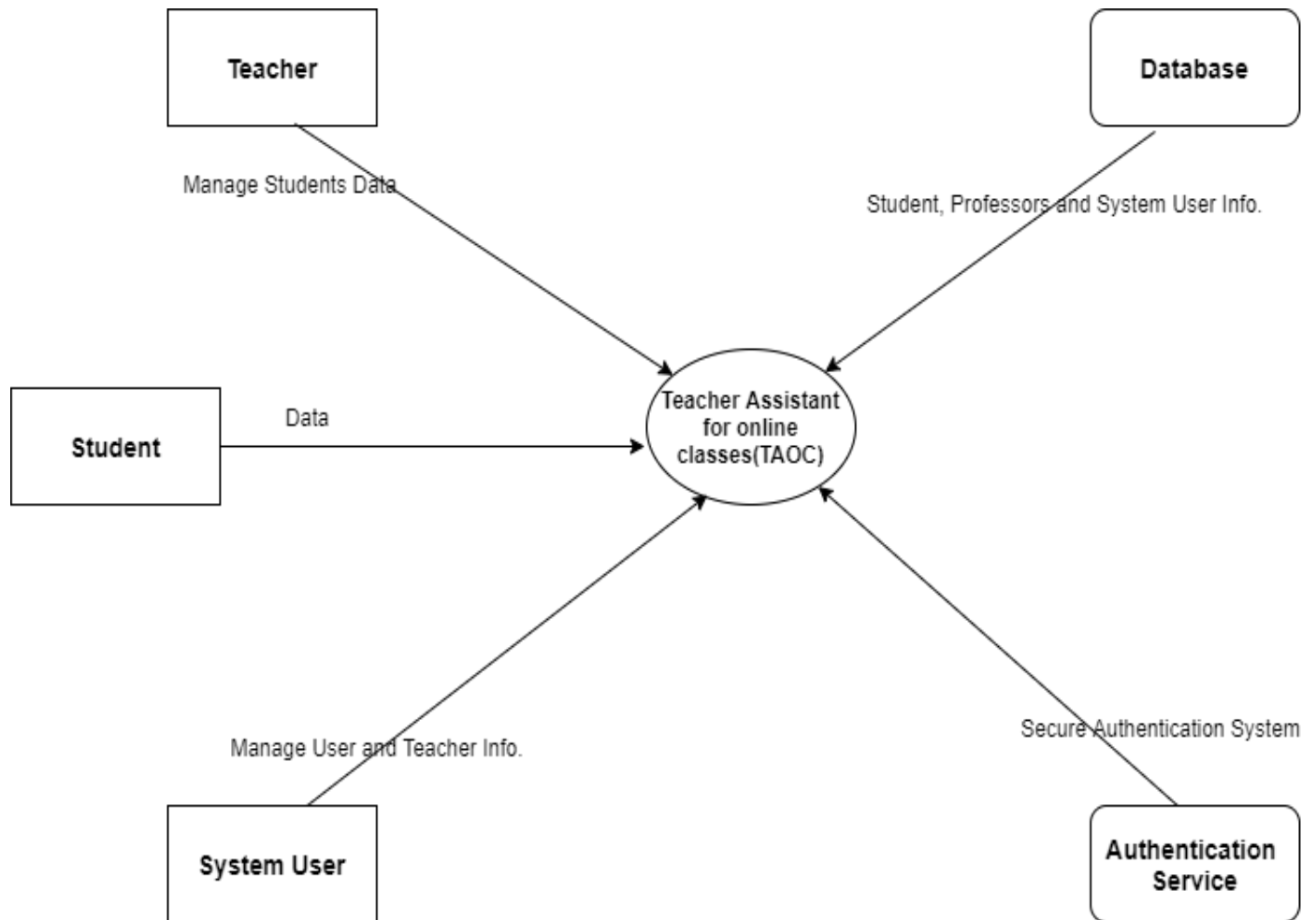
Memory constraints will come into play when the size of MySQL grows to a considerable size.

### **2.1.4 Operations**

The product shall have operations to protect the database from being corrupted or accidentally altered during a system failure.

## 2.2 Product functions

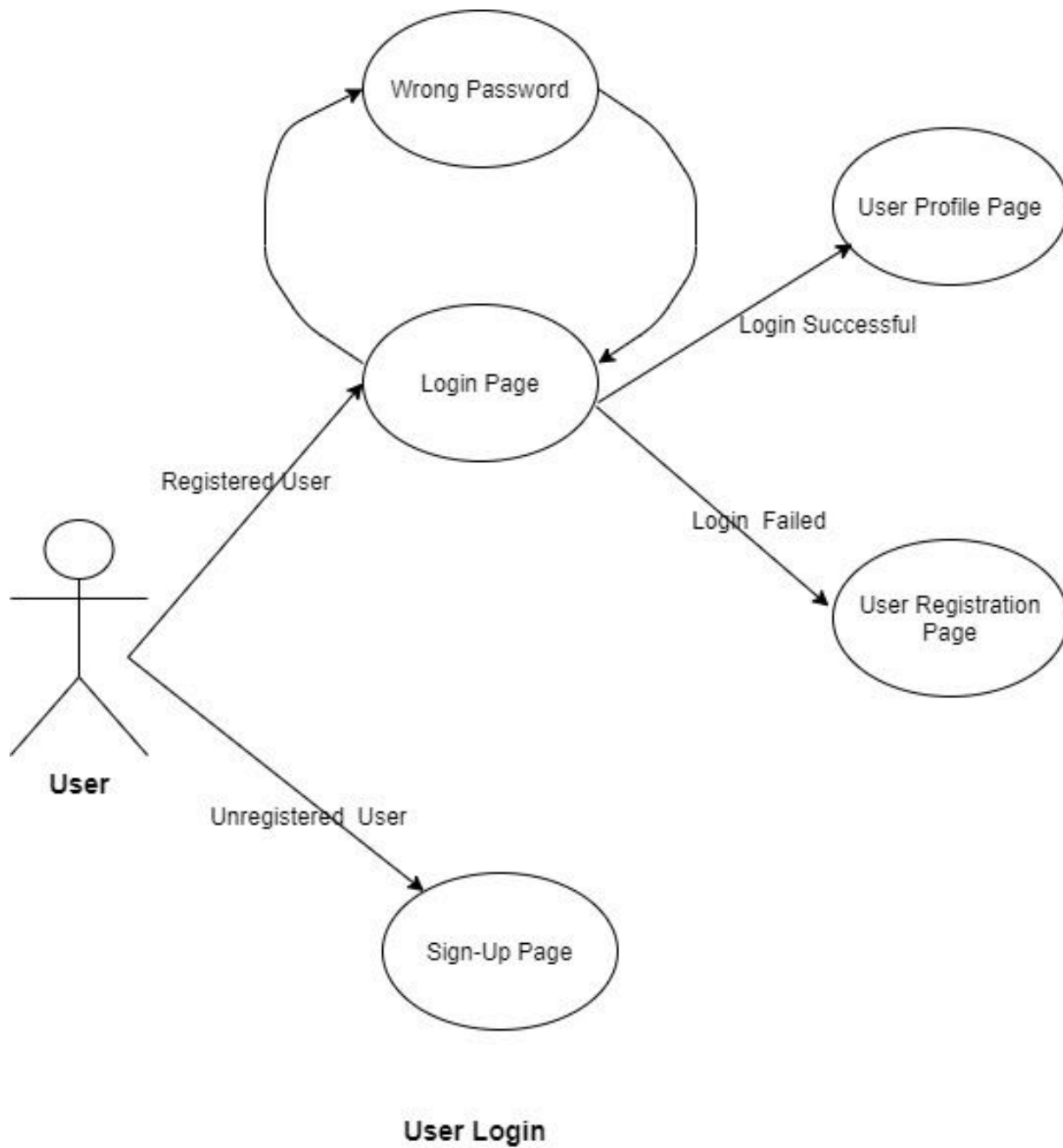
### 2.2.1 Context Diagram



Context Diagram

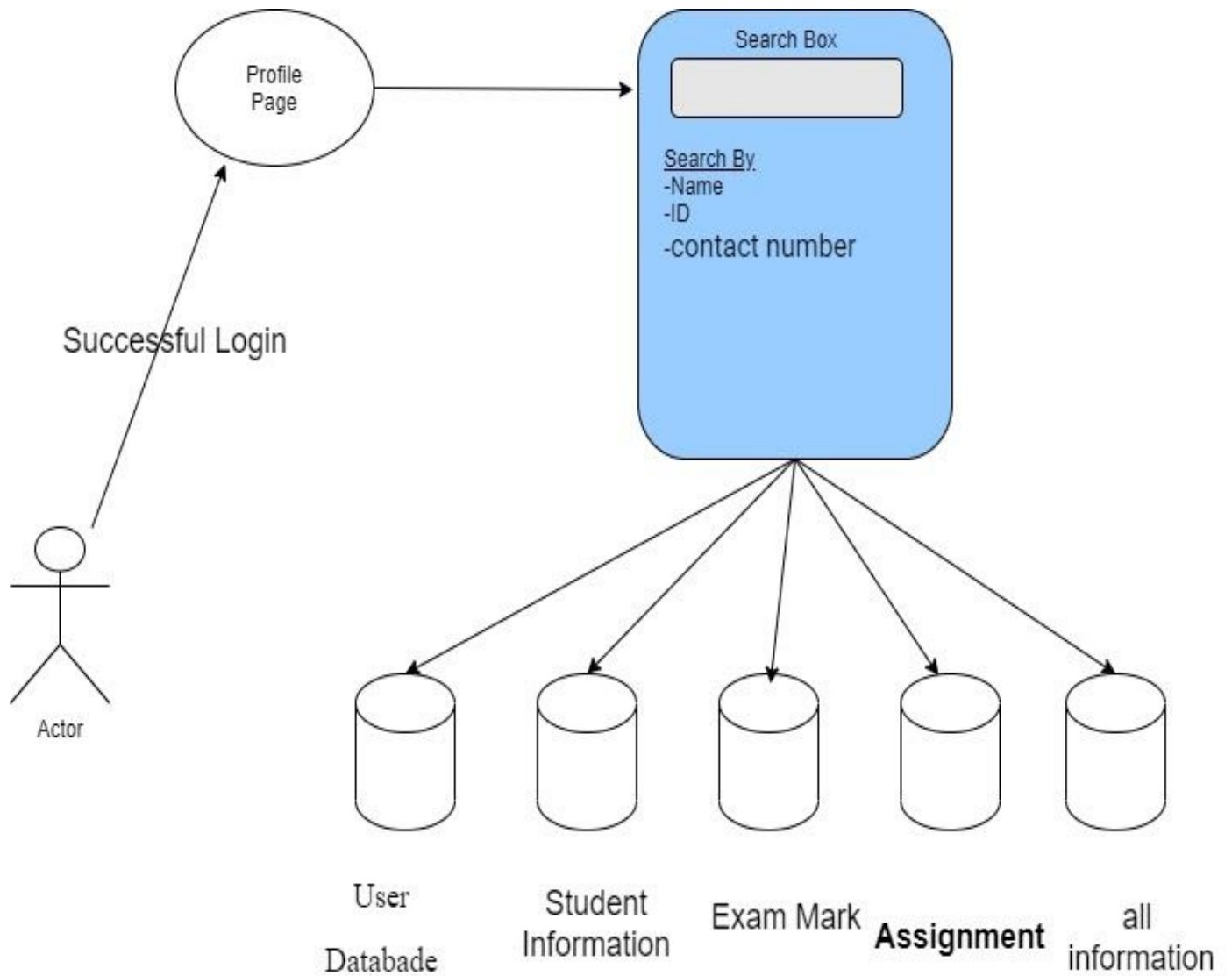
## 2.2.2 Use Case Diagrams

### 2.2.3 User Login





## 2.2.4 Search



## 3. Specific Requirements

### 3.1 External interface

### 3.2 Python Application

The actual program that will perform the operations is written in Python. All data will be stored in a database.

### 3.3 MySQL Database

It's an open source SQL database to store all data which communicates with the application on the server.

### 3.4 Functional Requirements

#### Use Case Scenario

#### 3.5 Use Case Scenario 1 – User Login

##### User Login

<b>Purpose</b>	User logs in to system using existing profile.
<b>User</b>	A user with an existing profile.
<b>Input Data</b>	Profile username and password.
<b>Output Data</b>	Corresponding page data.
<b>Invariants</b>	Profile table data and user information.
<b>Pre-conditions</b>	User is not logged in to a profile, input profile exists in data base, user password matches profile

### 3.6 Software Interface

Software interface includes database, operating system, tools, libraries and integrated commercial components. It refers to documents that describe detailed application programming interface protocols. Identify data that will be shared across software component.

### 3.7 Communication Interface

Communication interface basically deals with students information, other data, desktop application installation, configuring the drive. There is a fact for Reading information from drive and writing information from driver. Control Characters, Instrument Address, Data. It includes communication security or encryption issues, data transfer rates and synchronization mechanisms. We will includes all of these facts in this project.

## 4. System Features

### 4.1 Use Case Scenario 2 – Student Info data/Other data

A user wants to look at the Data/Student Info.

<b>Purpose</b>	A user wants to look at the time Data/Student Info.
<b>User</b>	Any user of the academic portal.
<b>Input Data</b>	The keyword.
<b>Output Data</b>	data/Student Info.
<b>Invariants</b>	The user and the portal itself.
<b>Pre-conditions</b>	User is logged in.
<b>Post-conditions</b>	Other data/Student Info Data.
<b>Basic Flow:</b>	User logs in, Selects the Other data/Student Info data button and gets the results.

## 4.2 Python Tkinter - Login Form

The screenshot shows a desktop application window titled "Techer Assistant". The login form is centered on a white background with a blue header bar. On the left is a large black silhouette of a person's head and shoulders. To the right of the silhouette, the text "LOGIN HERE" is displayed in blue. Below this, there are two input fields: "EMAIL ADDRESS" with the value "nur.azam@northsouth.edu" and "PASSWORD" with the value "12345". A link "Register new Account?" is visible below the password field. At the bottom is a red "Login" button.

Techer Assistant

LOGIN HERE

EMAIL ADDRESS  
nur.azam@northsouth.edu

PASSWORD  
12345

[Register new Account?](#)

Login

Login Form for Teaching Assistant Desktop Application Project

## 4.3 Python Tkinter - Registration Form

The screenshot shows a desktop application window titled "Registration Window". The registration form is centered on a white background with a dark blue header bar. On the left is a large black silhouette of a person's head and shoulders. To the right of the silhouette, the text "REGISTER HERE" is displayed in green. Below this, there are several input fields: "First Name" (Md.Nur-E-Azam), "Last Name" (Nur), "Contact No" (01234567891), "Email" (nur.azam@northsouth.edu), "Security Question" (Your Birth Place), "Answer" (Rajshahi), "Password" (12345), and "Confirm Password" (12345). A checkbox "I Agree The Terms & Conditions" is checked. At the bottom is a green "Start Now" button with a circular arrow icon. A "Sign In" button is visible at the bottom left of the form area.

Registration Window

REGISTER HERE

First Name  
Md.Nur-E-Azam

Last Name  
Nur

Contact No  
01234567891

Email  
nur.azam@northsouth.edu

Security Question  
Your Birth Place

Answer  
Rajshahi

Password  
12345

Confirm Password  
12345

☒ I Agree The Terms & Conditions

Start Now

Sign In

Registration Form for Teaching Assistant Desktop Application Project

## 4.4 Python Dashboard

Student Management System

### Teacher Assistant

#### Manage Students

Student ID

Full Name

Email

Gender

Contact

Assignment

All Exam

Search By

Student ID	Name	Email	Gender	Contact	Assignment	Quiz
1	Noor	noor@gmail.com	male	012457896	A1=8, A2=8 miss	Quiz1=20, Quiz2=19, Qui
2	Hridoy Shaha	hridoyshaha@gmail.com	male	017799456123	A1=8, A2=10, A3=	Quiz1=15, Quiz2=18, Qui
3	Ashiq	ashiq@gmail.com	male	016987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
4	Ashiq	ashiq@gmail.com	male	1698745120	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
5	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
6	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
7	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
8	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
9	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
10	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
11	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
12	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
13	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
14	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
15	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
16	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
17	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
18	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
19	Ashiq	ashiq@gmail.com	male	16987451203	A1=20, A2=10, A2	Quiz1=20, Quiz2=18, Qui
20	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
21	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui
22	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A2	Quiz1=20, Quiz2=18, Qui

#### Short Note For Teacher

North South University Teacher Assistant DeskTop AP For Online Class

Full Dashboard for Teaching Assistant Desktop Application Project

Student Management System

### Teacher Assistant

#### Manage Students

Student ID

Full Name

Email

Gender

Contact

Assignment

All Exam

Search By

Student ID	Name	Email	Gender	Contact	Assignment	Quiz
1512268042	Md.Nur-E-Azam	nur.azam@gmail	male	12457896	A1=8, A2=8, miss	Quiz1=20, Quiz2=19, Qui

#### Short Note For Teacher

North South University Teacher Assistant DeskTop AP For Online Class

Search By Roll Number

## Teacher Assistant

### Manage Students

**Student ID**   
**Full Name**   
**Email**   
**Gender**   
**Contact**   
**Assignment**   
**All Exam**

Search By

Name

Ashiq

Search

Show All

Student ID	Name	Email	Gender	Contact	Assignment	Quiz
3	Ashiq	ashiq@gmail.com	male	016987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
4	Ashiq	ashiq@gmail.com	male	1698745120	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
5	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
6	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
7	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
8	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
9	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
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12	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
13	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
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### Short Note For Teacher

North South University Teacher Assistant DeskTop AP For Online Class

Adding a data

## Teacher Assistant

### Manage Students

**Student ID**   
**Full Name**   
**Email**   
**Gender**   
**Contact**   
**Assignment**   
**All Exam**

Search By

Name

Ashiq

Search

Show All

Student ID	Name	Email	Gender	Contact	Assignment	Quiz
1	Md.Nur-E-Azam	nur.azam@gmail.com	male	012457896	A1=8, A2=8,miss	Quiz1=20, Quiz2=19, Quiz3=20
2	Hridoy Shaha	hridoyshaha@gmail.com	male	017789456123	A1=8, A2=10, A3	Quiz1=15, Quiz2=18, Quiz3=20
3	Ashiq	ashiq@gmail.com	male	016987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
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### Short Note For Teacher

North South University Teacher Assistant DeskTop AP For Online Class

Update an it



Student Management System

## Teacher Assistant

### Manage Students

Student ID
1

Full Name
Md.Nur-E-Azam

Email
nur.azam@gmail.com

Gender
male

Contact
12457896

Assignment
A1=8, A2=8,miss

All Exam
Quiz1=20, Quiz2=19, Quiz3=20, Mid1=30, Mid2=30, Final = 30

Add
Update
Delete
Clear

Search By
Name
Ashiq
Search
Show All

Student ID	Name	Email	Gender	Contact	Assignment	Quiz
3	Ashiq	ashiq@gmail.com	male	016987451203	A1=10, A2=10, A3=10	Quiz1=20, Quiz2=18, Quiz3=20
4	Ashiq	ashiq@gmail.com	male	1698745120	A1=10, A2=10, A3=10	Quiz1=20, Quiz2=18, Quiz3=20
5	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3=10	Quiz1=20, Quiz2=18, Quiz3=20
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### Short Note For Teacher

North South University Teacher Assistant DeskTop AP For Online Class

Delete an item

Student Management System

## Teacher Assistant

### Manage Students

Student ID

Full Name

Email

Gender

Contact

Assignment

All Exam

Add
Update
Delete
Clear

Search By
Contact
017789456123
Search
Show All

Student ID	Name	Email	Gender	Contact	Assignment	Quiz
2	Hridoy Shaha	hridoyshaha@gr	male	017789456123	A1=8, A2=10, A3=10	Quiz1=15, Quiz2=18, Quiz3=20

### Short Note For Teacher

North South University Teacher Assistant DeskTop AP For Online Class

Clear all data

Student Management System

## Teacher Assistant

### Manage Students

Student ID:

Full Name:

Email:

Gender:

Contact:

Assignment:

All Exam:

Search By Name Ashiq

Student ID	Name	Email	Gender	Contact	Assignment	Quiz
3	Ashiq	ashiq@gmail.com	male	016987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
4	Ashiq	ashiq@gmail.com	male	1698745120	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
5	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
6	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
7	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
8	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
9	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
10	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
11	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
12	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
13	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
14	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
15	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
16	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
17	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
18	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
19	Ashiq	ashiq@gmail.com	male	16987451203	A1=20, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
20	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
21	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
22	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
24	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20
25	Ashiq	ashiq@gmail.com	male	16987451203	A1=10, A2=10, A3	Quiz1=20, Quiz2=18, Quiz3=20

### Short Note For Teacher

North South University Teacher Assistant DeskTop AP For Online Class

Search By Name

Student Management System

## Teacher Assistant

### Manage Students

Student ID:

Full Name:

Email:

Gender:

Contact:

Assignment:

All Exam:

Search By Contact 017789456123

Student ID	Name	Email	Gender	Contact	Assignment	Quiz
2	Hridoy Shaha	hridoyshaha@gmail.com	male	017789456123	A1=8, A2=10, A3	Quiz1=15, Quiz2=18, Quiz3=20

### Short Note For Teacher

North South University Teacher Assistant DeskTop AP For Online Class

Search By Contact Number



## **5.1 Performance Requirements**

For any Desktop Application main challenge. For application, there should be enough smoothness for user. The application should work lifelike and steady. There should be 90%. The application must function flexibly in any platform.

## **5.2 Safety Requirements**

As if the system files or data folders of this application are the core items like all other Desktop Application. They are very much important to run the application fruitfully. Editing or deleting them without proper knowledge can make the application crash or behave unusual. It is highly recommended to leave them at their own state.

## **5.3 Security Requirements**

There are many people who are concerned about use of feature works with the Desktop. So, it is highly recommended that a user must desktop application. Otherwise there is a chance of losing private data.

## **5.4 Software Quality Attributes**

The must be available for all users of desktop, also it will be open source and non commercial Desktop Application, so the pricing is free. For development purposes, there might be some minimum advertisements but it is highly recommended for the developers to avoid all types of ads and links that uses trackers to track user's personal information .

## **5.5 Business Rules**

The application is mostly simple to use and made for everyone so that anyone can use it. But there are some advanced features which should be used with a bit of care, so it is recommended that children under 5 should not be using this application. Also the settings should be used with caution.

