

NITTE MAHALINGA ADYANTHAYA MEMORIAL INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

PROJECT REPORT ON

COLLEGE KHABAR

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Under the guidance of:

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CERTIFICATE

This is to certify that the project entitled "**College Khabar**" under my guidance in partial fulfillment of the 5th semester **RELATIONAL DATABASE MANAGEMENT SYSTEM** laboratory in Computer Science & Engineering of NMAMIT (An autonomous college under VTU, Belgaum) during the academic year 2014-2015. To the best of my knowledge and belief this has been submitted to the institute for the completion of **Relational Database Management System** laboratory.

Miss. Grantha K.N
Asst. Professor
(Department of CSE)

ABSTRACT

This project aims to provide the information to upcoming students in the field of engineering and medical science to know everything about the various colleges situated in Karnataka. This prior information helps the students to decide their college and provide them with different users' perspective on the colleges before they take admission via COMEDK counselling.

ACKNOWLEDGEMENT

On completion of our project "College Khabar", it is our bounden duty to acknowledge the efforts of every person behind it.

We are grateful to Miss. Grantha K.N (Asst. Professor, Department of Computer Science and Engineering, NMAMIT, NITTE) for the idea to taking up this project and guiding us from the beginning.

Sincere thanks to our HOD DR. H Saroja Devi. We would also like to thank our principal, Dr. Niranjana.N. Chiplunkar for providing all the facilities in the college for the implementation of our project.

We would like to thank all the concerned lecturers of CSE department, Lab administrators and assistants for their kind cooperation.

This project would not have been successfully completed without the encouragement and cooperation of our parents and support from our friends.

Saurabh Jain

Suraj Shetty

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INTRODUCTION

‘College Khabar’ is all about news and all related activities in various institutes across Karnataka that comes under COMEDK. We are focused on campus placements at Engineering and Medical Schools as well as the facilities provided by them for the students. We seek to provide everything to the person that might want to and need to know about institutes before they wish to take admission.

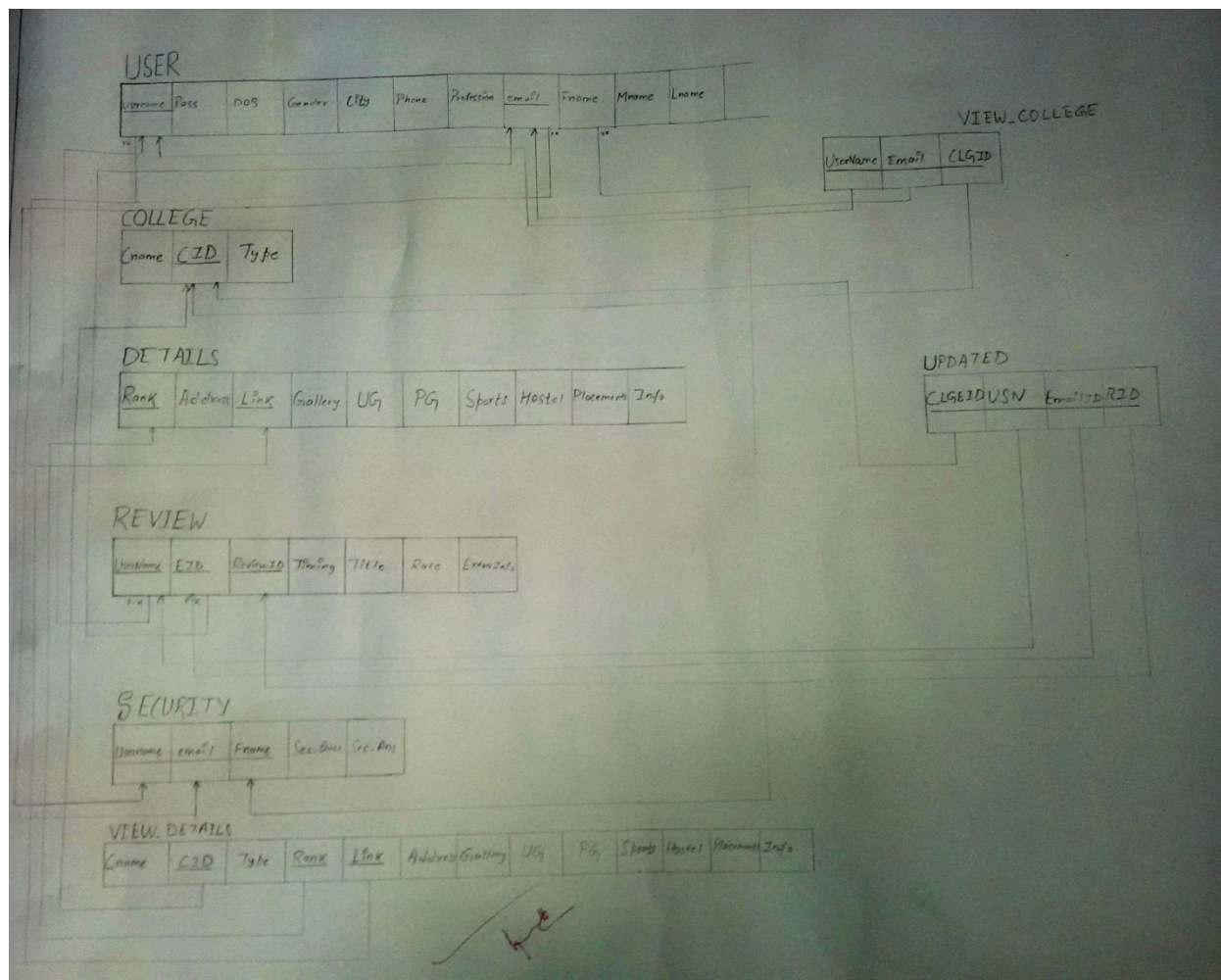
This project will help not only help the students but also the management to go through there college reviews, provided to them as a valuable feedback.

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The diagram is a hand-drawn Entity-Relationship (ER) model for a college website system. It includes the following components:

- Entities and Attributes:**
 - USER:** Pinpoint, Username, Password, Email, Phone, Profession, Address, Age, DOB.
 - COLLEGE:** Page, Course, CSS.
 - SECURITY:** Sec_Data, Sec_Pass, Email.
 - REVIEW:** Review_ID, W.Review, Timing, Title, Evaluation.
 - DETAILS:** Course, VB, PB, Address, Link, Salary, Address, City, State, Country.
- Relationships and Cardinalities:**
 - VIEW_COLLEGE:** Connects USER (M) and COLLEGE (1).
 - FORGET_PASSWORD:** Connects USER (1) and SECURITY (1).
 - GIVE_REVIEW:** Connects USER (1) and REVIEW (N).
 - UPDATED:** Connects REVIEW (1) and DETAILS (N).
 - VIEW_DETAILS:** Connects COLLEGE (1) and DETAILS (2).

• **ER DIAGRAM :**



- **ALGORITHM :**

SQL CREATION CODE:

```
create database college_khabar
use college_khabar
```

```
create table User_details(uname varchar(20),pass varchar(20) not
null,fname varchar(15) not null,
lname varchar(15) not null,DOB datetime default null,gender char(6),city
char(15) default null,phone int default null,
profession varchar(15) default null,email varchar(25) default null,secQ
varchar(30) default null,
secA varchar(30) default null,primary key(uname))
```

```
create table College(cid varchar(10),Cname varchar(100) not null,type
varchar(10),primary key(cid))
```

```
create table Clg_details(cid varchar(10),Address varchar(5000),Info
varchar(5000),plcmnt varchar(5000),rank char(10),
hostel varchar(5000),sports varchar(2000),courses varchar(5000),foreign
key(cid) references College(cid) on delete cascade on update cascade)
```

```
create table gallery(cid varchar(10),img1 image,img2 image,im3 image,im4
image,foreign key(cid) references College(cid))
```

COLLEGE KHABAR

```
create table review(username varchar(20),rid varchar(10),cid
varchar(10),rating float,
timing datetime,extra varchar(500) default null,primary key(rid),foreign
key(username) references User_details(uname),foreign key(cid)
references College(cid))
```

```
select * from User_details
```

```
select * from College
```

```
select * from Clg_details
```

```
select * from gallery
```

```
select * from review
```

- **Creating connection between front end and back end**

1. Con is declared as OleDb connection in the module as to connect the front to the back end.
2. Con is assigned appropriate values for provider as OleDb, server, database, user ID password and integrated security

```
Imports System.Data.OleDb
Module Module1
    Public con As OleDbConnection

    Public Function connect()
        Try
            con = New
OleDbConnection("provider=sqloledb;server=(local);database=college_khabar;integrated
security=SSPI;")
            con.Open()
            MsgBox("Connected")
        Catch ex As Exception
            MsgBox(ex.Message)
        End Try
        Return Nothing
    End Function
End Module
```

1. Insertion :

Inserting a new tuple to the back end

1. Con declared in the module is used to insert values to the back end from front end using OleDb connection.
2. Con is declared as OleDb command to execute the query
3. It is connected to the back end using con
4. The values inserted into the front end are checked for primary and foreign key violation, null values entries and data type mismatches and appropriate message are displayed.
5. Otherwise successfully inserted message will come up.

```
Private Sub Button2_Click(sender As Object, e As EventArgs) Handles Button2.Click
    If TextBox1.Text = "" Then
        MsgBox("please enter College name")
        Exit Sub
    End If
    If TextBox2.Text = "" Then
        MsgBox("please enter College ID ")
        Exit Sub
    End If

    Dim Cname As String = Trim(TextBox1.Text)
    Dim cid As Char = Trim(TextBox2.Text)

    Dim com As OleDbCommand
    Try
        com = New OleDbCommand()
        com.Connection = con
        com.CommandText = "insert into Clg_details values('" & cid & "','" & Cname & "','" &
        TextBox4.Text & "','" & tb4.Text & "','" & tb5.Text & "','" & tb6.Text & "','" & tb7.Text & "','" &
        tb8.Text & "','" & tb9.Text & "')"
        com.ExecuteNonQuery()
    End Try
```

```

        MsgBox("Data inserted succesfully")

    Catch ex As Exception
        MsgBox(ex.Message)
    End Try
End Sub

```

2. Deletion :

Deleting a new tuple to the back end

1. Con declared in the module is used to insert values to the back end from front end using OleDb connection.
2. Con is declared as OleDb command to execute the query
3. It is connected to the back end using con
4. The values to be deleted from the back end are checked for primary and foreign key violation, null values entries and data type mismatches and appropriate message are displayed.
5. If the condition on which basis we are deleting is matched then it is deleted successfully

```

Dim com As OleDbCommand
Try
    com = New OleDbCommand()
    com.Connection = con
    com.CommandText = "delete from CLg_details where cname='" &
Trim(TextBox1.Text) & "' AND cid= '" & Trim(TextBox2.Text) & "' "
    com.CommandText = "delete from User_details where sname='" &
Trim(TextBox2.Text) & "' "
    com.ExecuteNonQuery()
    MsgBox("Deleted succesfully")

Catch ex As Exception
    MsgBox(ex.Message)
End Try
End If

```

End Sub

3. Update:

Updating a retrieved tuple

1. Con declared in the module is used to update the retrieved tuple from back end from front end using
2. Con declared in the module is used to update the retrieved tuple from back end from front end using OleDb connection.
3. Com is declared as OleDb command to execute the query.
4. It is connected to the back end using con.
5. The updated values in the front end are checked for primary and foreign key violation, null value entries and data type mismatches and appropriate error messages are displayed.

Try

```
com = New OleDbCommand()  
com.Connection = con  
com.CommandText = "update Clg_details set info = '" & ab & "' "  
com.ExecuteNonQuery()  
MsgBox("Data updated succesfully")  
TextBox1.Clear()  
Catch ex As Exception  
MsgBox(ex.Message)  
End Try  
End Sub
```

4. Search:

Searching the tuple stored in the back end

1. Adapt is declared as OleDb data adapter and dt is declared as data table.
2. Con declared in the module is used to select a tuple from the perspective table in the back end from front end using OleDb connection.
3. Com is declared as OleDb command to execute non query.
4. It is connected to the back end using con.
5. The candidate/primary key entered in the front end checked for null value and data type mismatch.
6. The select queries are written using the entered key values to select a tuple from respective table of the database.

```
Try
    dadapt2 = New OleDbDataAdapter("select Cname, where cid='" & id & "'", con)
    dt1 = New DataTable
    dadapt2.Fill(dt1)
    DataGridView2.DataSource = dt1
Catch ex As Exception
    MsgBox(ex.Message)
End Try
Button4.Hide()
TextBox4.Hide()
Label3.Hide()
Exit Sub
End Sub
```

TESTCASE AND OUTPUT MESSAGES

Home Screen of the project--

Form1

"COLLEGE"

खबर

❖KNOW ALL ABOUT COMEDK.
❖GRANT YOUR REVIEWS.
❖RATE THE COLLEGES.
❖STAY UPDATED.

Sign In -

Username :

Password :

[Forgot password?](#)

Sign Up -

First Name :

Last Name :

Username :

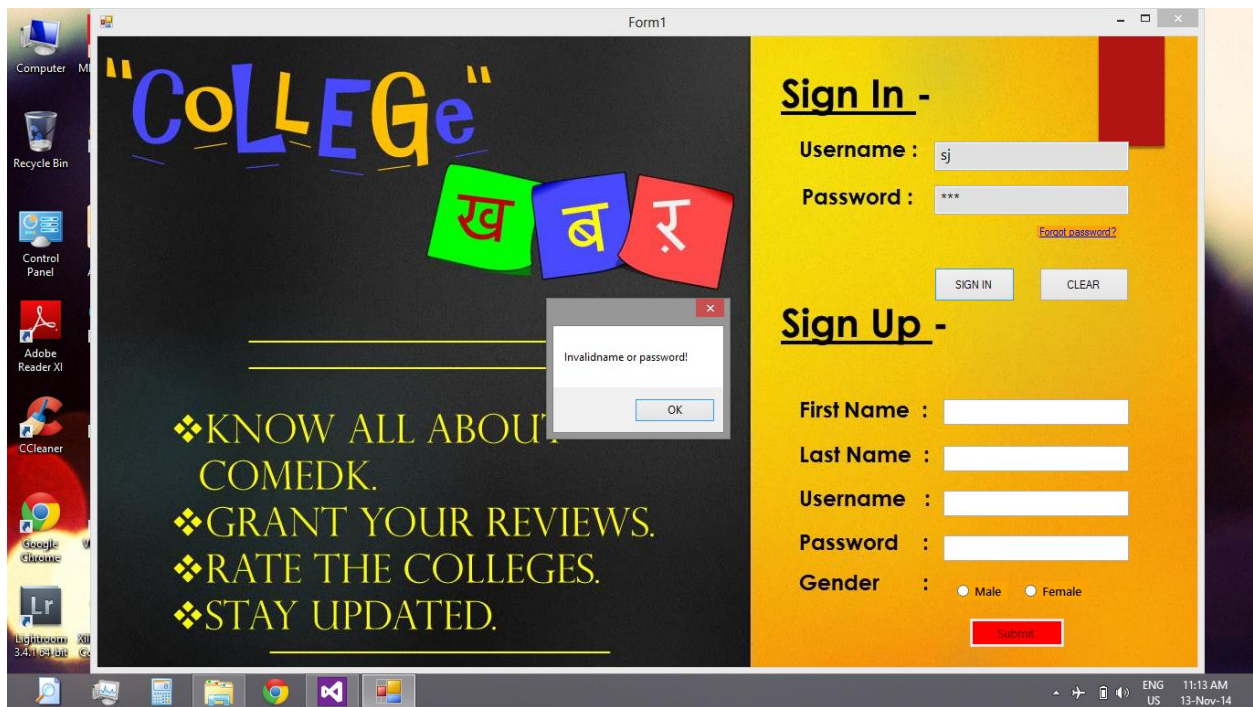
Password :

Gender : ☐ Male ☐ Female

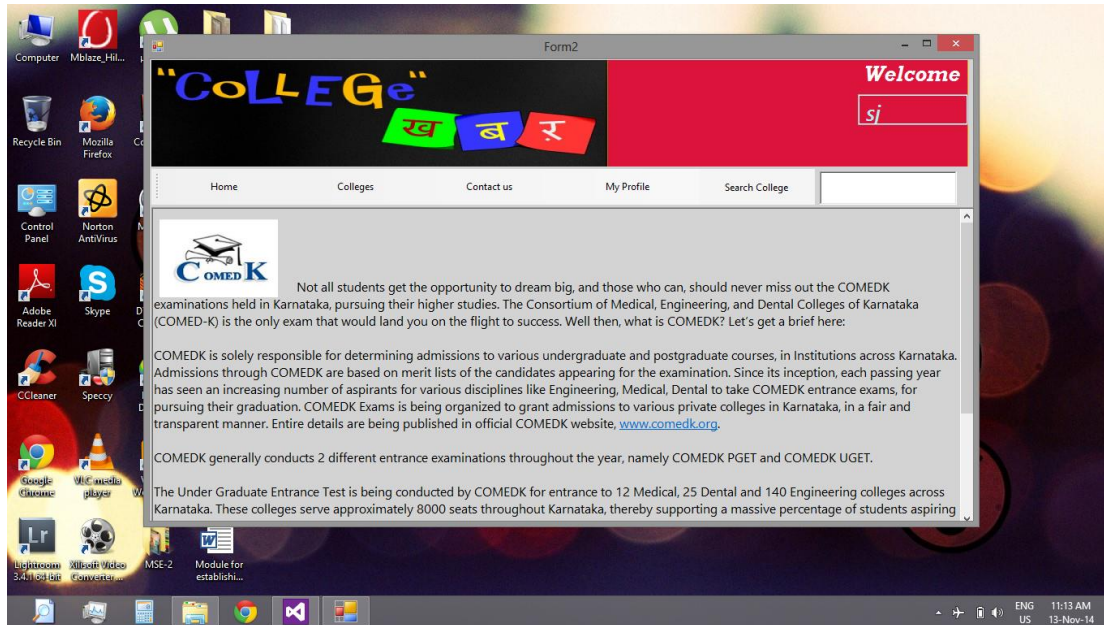
Insertion:

If the username and password is correct, then correct sign in else the error message is shown as -

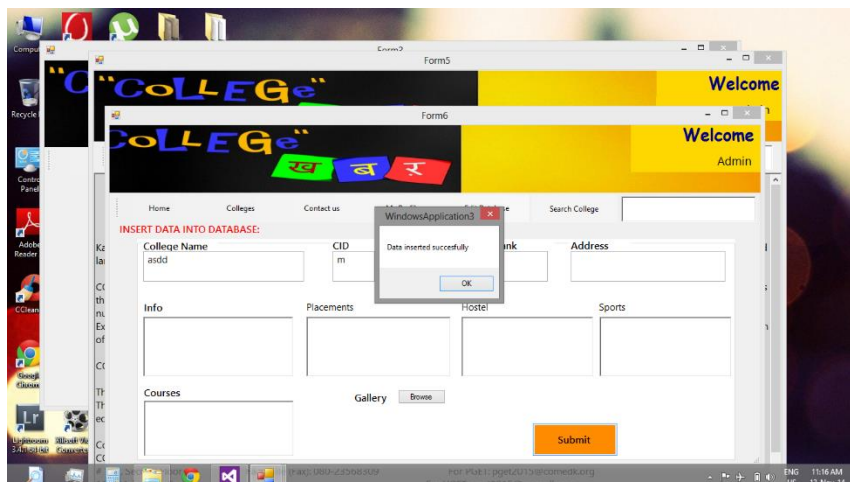
In Valid output



If valid output is there then user goes to home page—

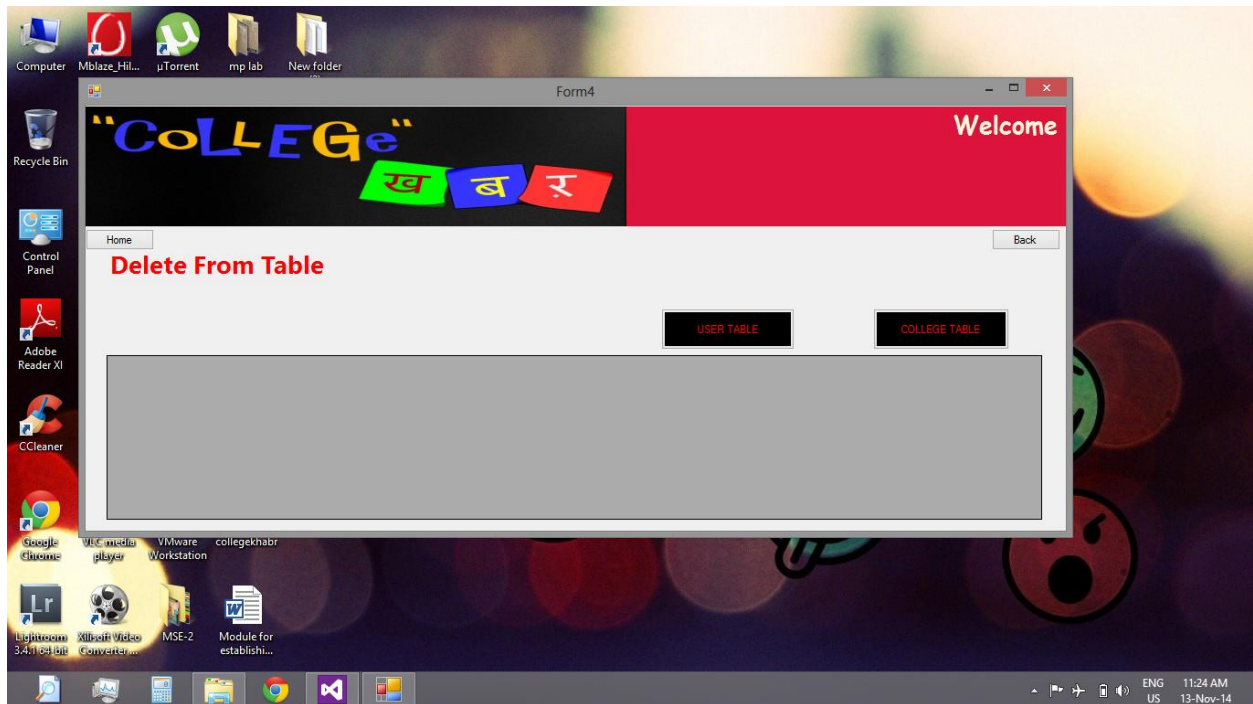


The admin has the privilege to enter the details of colleges as follows—



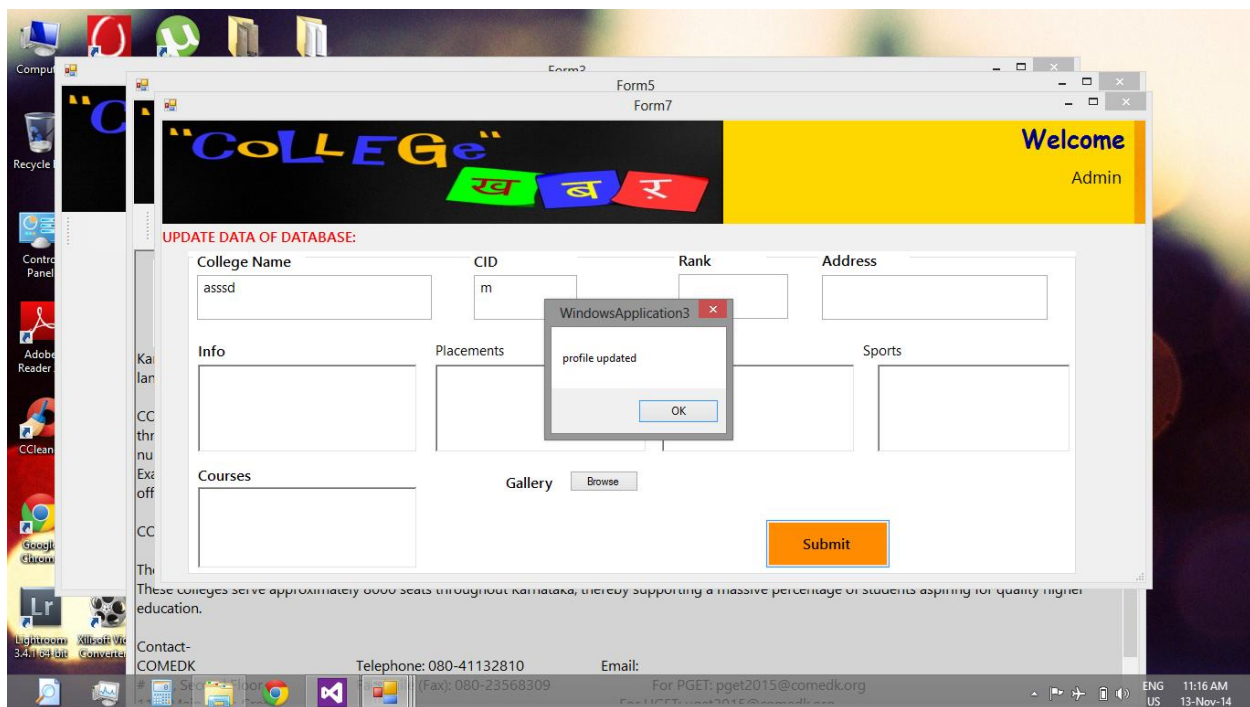
Deletion:

The admin can delete the user as well as college database as he wishes to be –



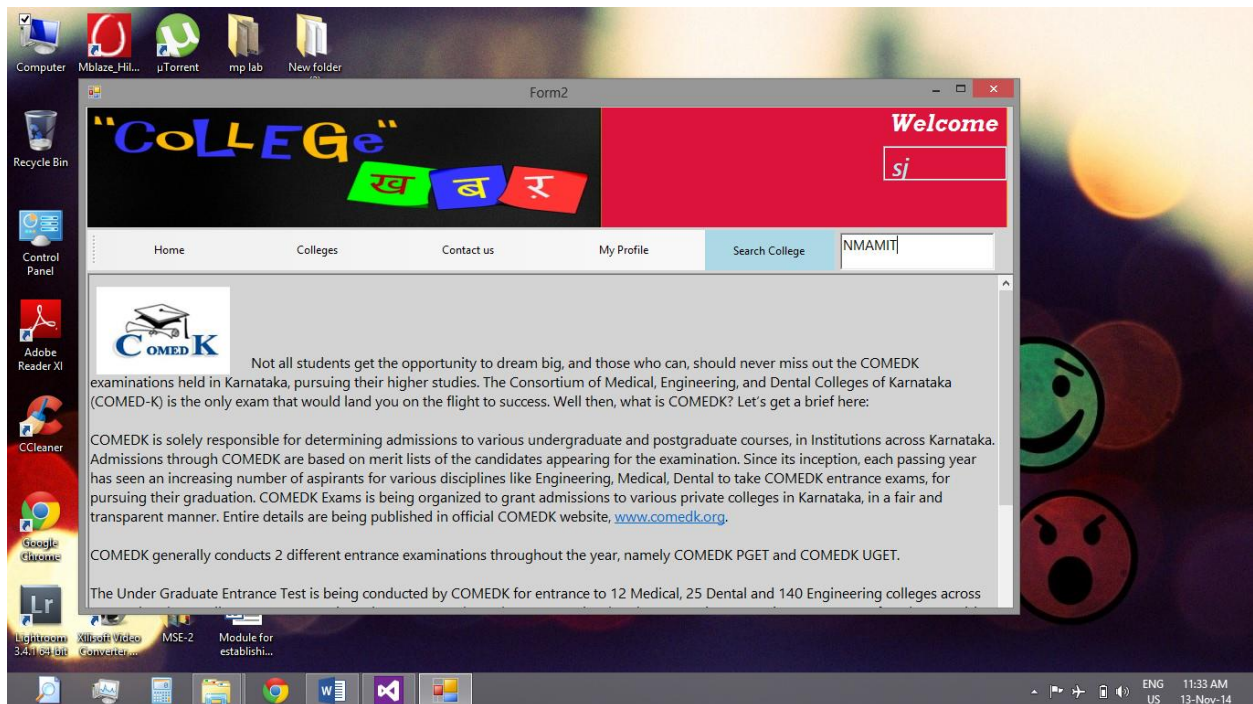
Update: If we try to update a tuple and if there is no violation based on primary key then a valid output will be displayed “updated successfully” otherwise error message “ update not successful”.

Valid output

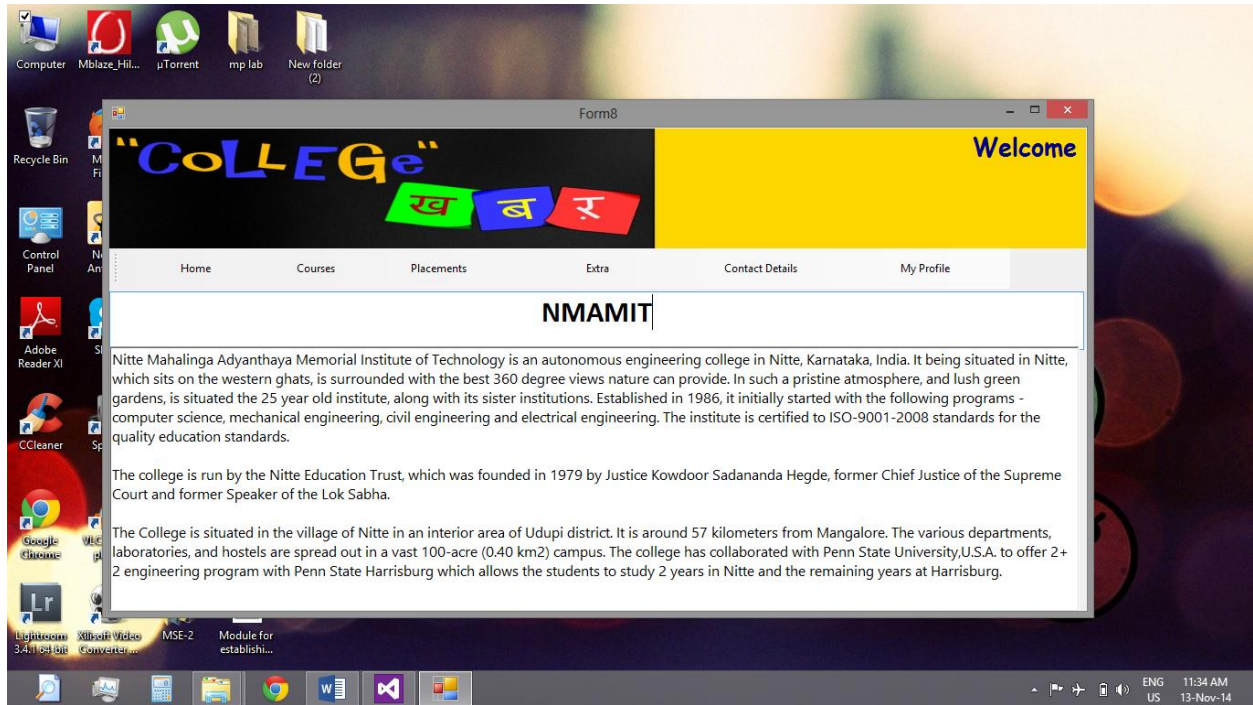


Search: If we try to search a tuple and if it is present then a valid output will be prompted "search found" otherwise an error message will be prompted.

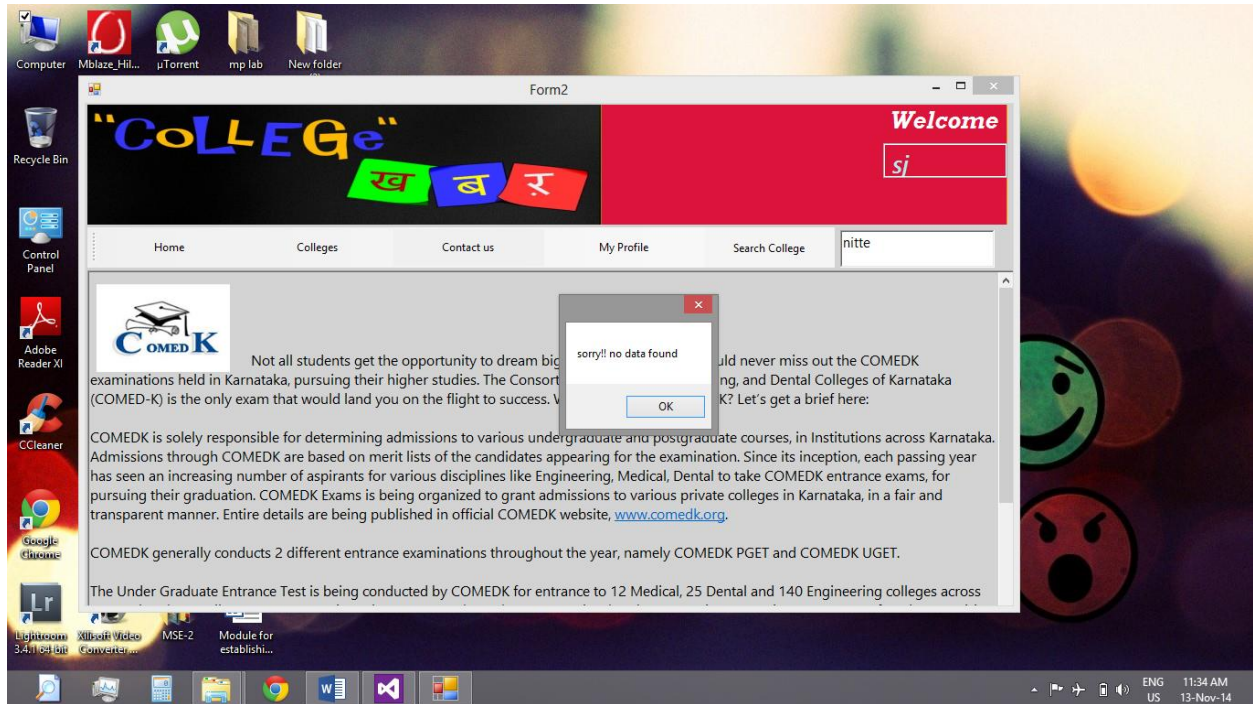
Search screen -



Valid output:



Invalid Output:



CONCLUSIONS AND FUTURE WORK

The project is focused on giving the students a proper knowledge about the colleges in Karnataka. The users can interact surf the details on colleges, give reviews on them. This type of platform gives user a productive information that helps him/her in deciding their future study palace.

The project has an interactive user interface. It can be updated on a regular basis that will help the users to move with the information.

Overall, this project will help not only help the students but also the management to go through there college reviews, provided to them as a valuable feedback.

REFERENCES

Faculty guide:

Miss. Grantha K.N

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