

Detail Design
On
School College Polytechnique Coaching center Special
Batch Management

Course No: CSE 3204

Course Title: Software Engineering and Information System Project

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Md. Arifur Rahman

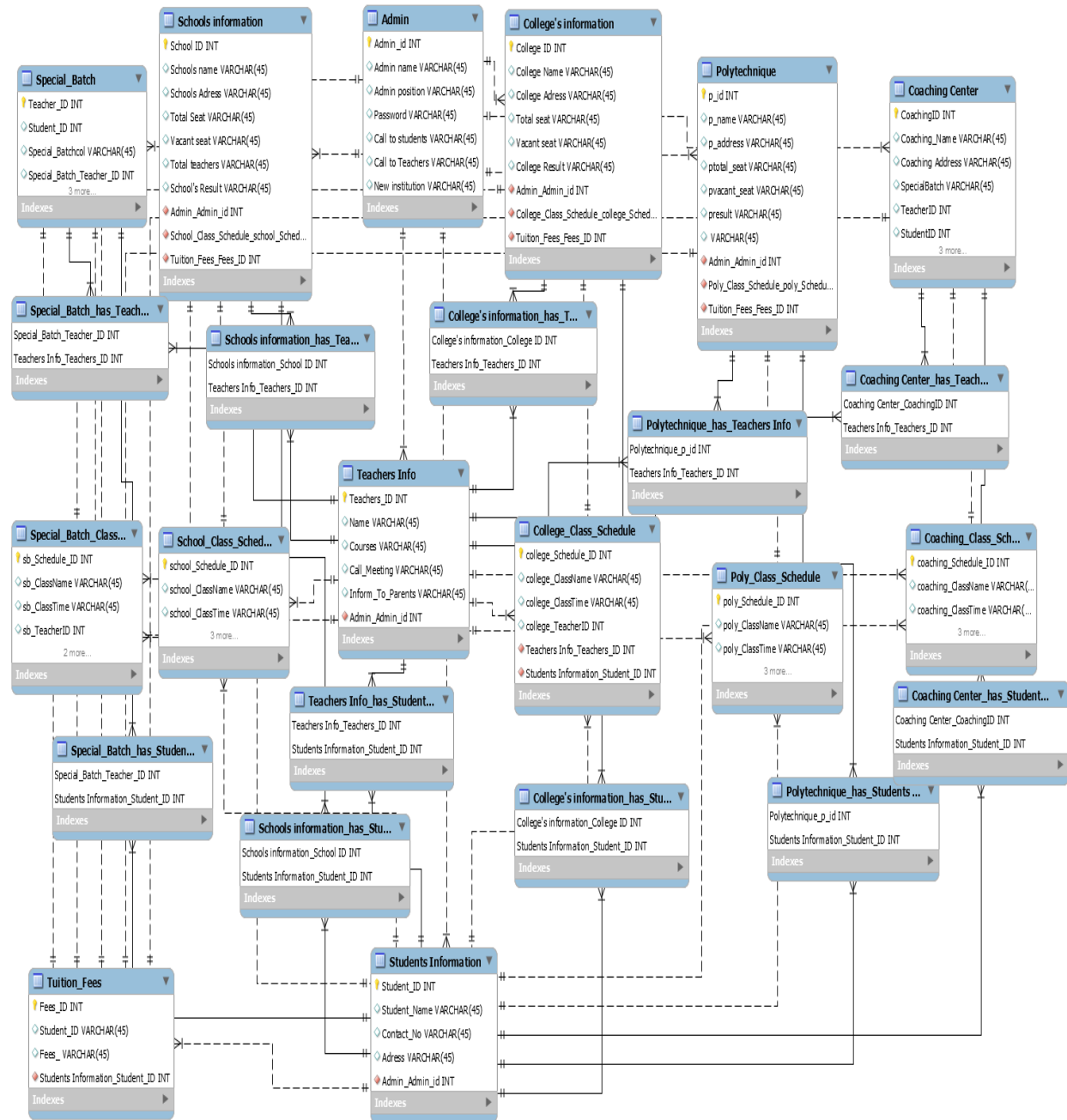
Student Id: 160208

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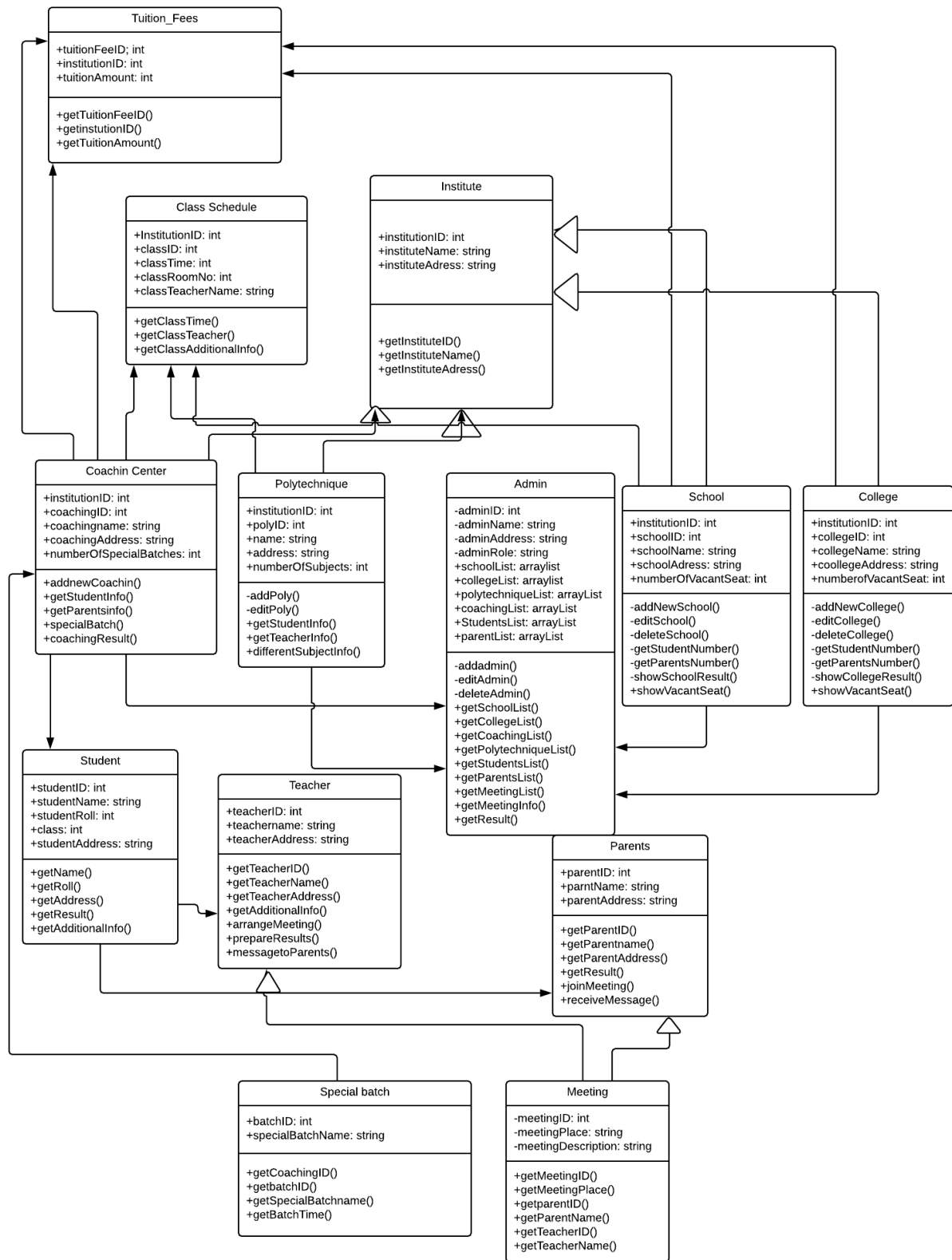
Mrityunjoy Gain

Student Id: 160224

ER Diagram



Class Diagram



Class Admin:

```
Int adminID()  
String adminName( int adminID )  
String AdminAddress( ID )  
String AdminRole(int ID )  
List< School> getSchoolList( int SchoolID )  
List< college> getCollegeList(int CollegeID )  
List< polytechniqueList > getPolytechniqueList(int polyID)  
List < AdminList> getAdminList(int adminID, String AdminName)  
Boolean AddAdmin(int AdminID, String AdminName)  
Boolean EditAdmin(int AdminID, String AdminName, String AdminAddress)
```

Class Institution:

```
String InstitutionName()  
Int InstitutionID()  
List< School> getSchoolList( int SchoolID )  
List< college> getCollegeList(int CollegeID )  
List< polytechniqueList > getPolytechniqueList(int polyID)
```

Class School:

```
int InstitutionID()  
String InstitutionName(int institutionID)  
List< School> getSchoolList( int SchoolID )
```

List< Student > getStudentList(int StudentID)
Boolean EditSchool(School)
Boolean AddSchool(School)
String getStudentResult(int StudentID)
String getParentsContactNo(int ParentID)
List< Teacher> getTeacherList(Teacher)
Boolean AddSchool(School)
Boolean EditSchool(School)
String ResultInfo(int StudentID)

Class College:

int InstitutionID()
String InstitutionName(int institutionID)
List< College> getCollegeList(int CollegeID)
List< Student > getStudentList(int StudentID)
Boolean EditCollege (College)
Boolean AddCollege (College)
String getStudentResult(int StudentID)
String getParentsContactNo(int ParentID)
List< Teacher> getTeacherList(Teacher)
Boolean AddCollege(College)
Boolean EditCollege(College)
String ResultInfo(int StudentID)

Class Polytechnique:

```
int InstitutionID()  
String InstitutionName(int institutionID)  
List< Polytechnique> get PolytechniqueList( int PolytechniqueID )  
List< Student > getStudentList( int StudentID)  
Boolean EditPolytechnique (Polytechnique)  
Boolean AddPolytechnique (Polytechnique)  
String getStudentResult(int StudentID)  
String getParentsContactNo(int ParentID)  
List< Teacher> getTeacherList(Teacher)  
Boolean Add_Polytechnique(Polytechnique)  
Boolean Edit_Polytechnique(Polytechnique)  
String ResultInfo(int StudentID)
```

Class CoachingCenter:

```
int InstitutionID()  
String InstitutionName(int institutionID)  
List< Coachingcenter> get Coachingcenter( int CoachingcenterID)  
List< Student > getStudentList( int StudentID)  
Boolean EditCoachingcenter (Coachingcenter)  
Boolean AddCoachingcenter (Coachingcenter)  
String getStudentResult(int StudentID)
```

String getParentsContactNo(int ParentID)
List< Teacher> getTeacherList(Teacher)
Boolean AddCoachingcenter (Coachingcenter)
Boolean EditCoachingcenter (Coachingcenter)
String ResultInfo(int StudentID)

Class SpecialBatch:

int InstitutionID()
String InstitutionName(int institutionID)
List< Specialbatch> getSpecialbatch(int SpecialbatchID)
List< Student > getStudentList(int StudentID)
Boolean EditSpecialbatch(Specialbatch)
Boolean AddSpecialbatch(Specialbatch)
String getStudentResult(int StudentID)
String getParentsContactNo(int ParentID)
List< Teacher> getTeacherList(Teacher)
Boolean AddSpecialbatch(Specialbatch)
Boolean EditSpecialbatch(Specialbatch)
String ResultInfo(int StudentID)

Class Student:

Int getStudentID()
String getStudentName(int ID)

List<Student> getStudentList(int ID, String Name)

Boolean Admission(int institutionID)

Boolean AddStudent(Student)

Boolean EditStudent(Student)

Boolean SearchStudent(Student)

Int getAttendance(int ID)

Int getMarks(int ID)

String Address(int ID)

String getClassSchedule()

Class Parent:

Int getParent()

String getParentName(int ID)

List<Parent> getParentList(int ID, String Name)

Int getMarks(int StudentID,int institutionID)

String Address(int ID)

Boolean AddParent(Parent)

Boolean EditParent(Parent)

Boolean JoinMeeting(int StudentID, int InstitutionID)

String ReceiveMessage(int StudentID, int InstitutionID)

String getClassSchedule()

Class Teacher:

Int getTeacher()
String getTeacherName(int ID)
List< Teacher > getTeacherList(int ID, String Name)
Boolean AddTeacher(Teacher)
Boolean EditTeacher(Teacher)
Boolean CallMeeting()
String SendMessage(int StudentID, int ParentID)
String getClassSchedule()

Class MeetingSchedule:

Boolean CallMeeting(int ParentID, int TeacherID)
String meetingTime(ID)
Boolean Edit meetingTime(MeetingSchedule)
String getMeetingPlace()
String getMeetingTopic()

Class ClassSchedule:

String getClassTime()
String getClassTeacher(int TeacherID)
Boolean EditClassSchedule(ClassSchedule)

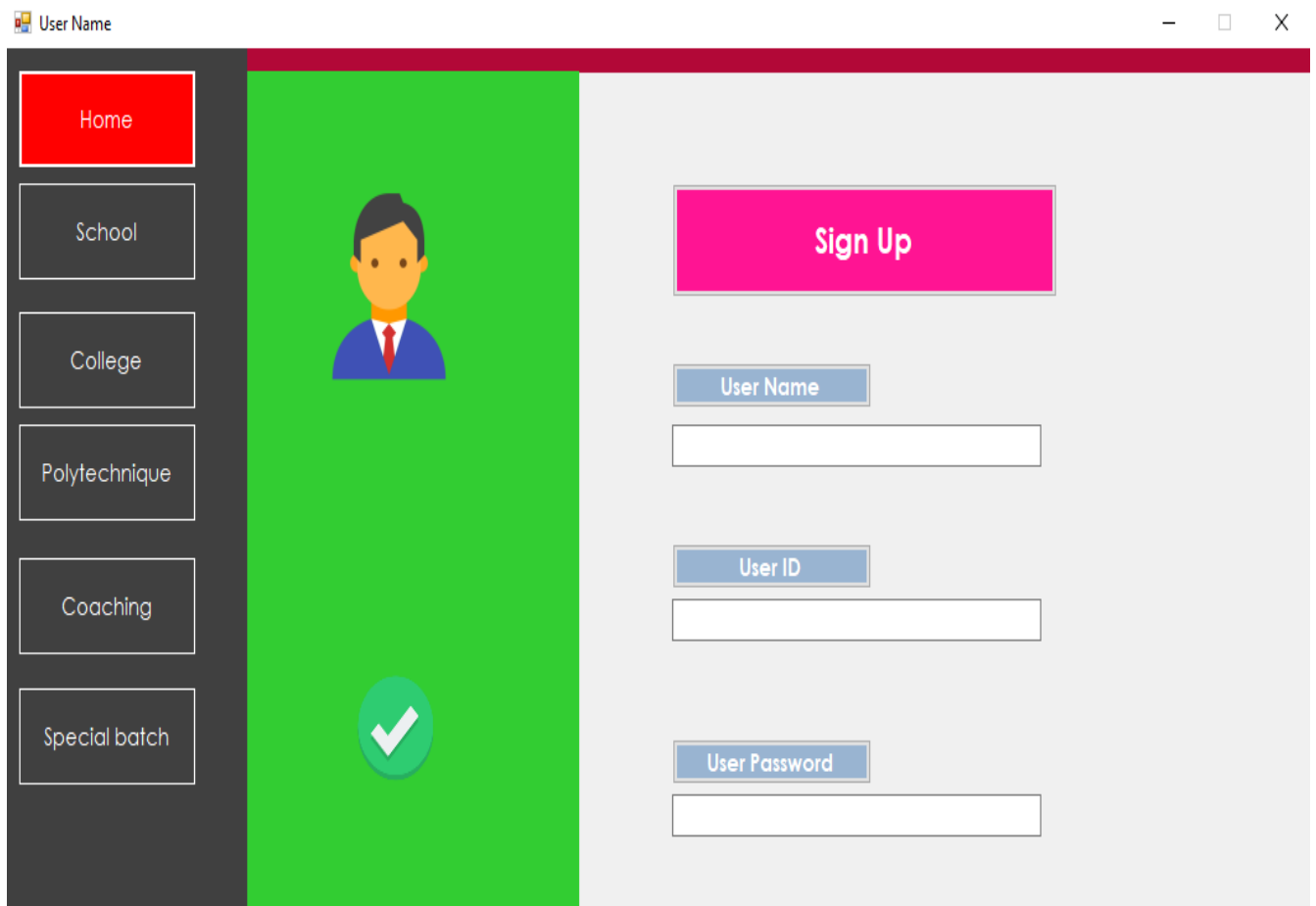
Class TuitionFees:

String getInstitutionID()

String getTuitionAmount(TuitionFees)

User Interface:

Home Page:



The image shows a user interface mockup for a web application. At the top, there is a header bar with a small icon and the text "User Name" on the left, and standard window controls (minimize, maximize, close) on the right. The main content area is divided into three sections. On the left is a dark gray sidebar containing a vertical list of buttons: "Home" (highlighted in red), "School", "College", "Polytechnique", "Coaching", and "Special batch". The middle section has a green background and features a stylized illustration of a man in a blue suit and red tie, with a green circular button containing a white checkmark below it. The right section has a light gray background and contains a pink "Sign Up" button, followed by three input fields labeled "User Name", "User ID", and "User Password".

School Dashboard

The screenshot shows a web application titled "SchoolWindowsForm". On the left is a dark sidebar with buttons for "Home", "School" (highlighted in red), "College", "Polytechnique", "Coaching", and "Special batch". The main content area has a background image of a school gate. At the top, there's a "Select School" label and a dropdown menu showing "select school". Below this are eight colored buttons: "Registrant" (green), "Class Schedule" (orange), "Result" (yellow), "Attendance" (light blue), "Payment" (dark blue), "Meeting Schedule" (light green), "School teacher List" (dark red), "Admission" (purple), and "Location Maps" (pink). Further down are two light blue bars labeled "School Notice" and "Academic Progress Bar". Under "School Notice" is a list of three items: "1. Here is a list of seminars of 2018", "2. Next Guardian meeting", and "3. New Admission Circular". A watermark "WWW.Fb.com/NeonAUST" is visible in the bottom right corner of the background image.

School Student registration

The screenshot shows a web application titled "Registrant" with a purple background. It contains the following form elements: a "Class" label next to a dropdown menu showing "Select Class"; a "Name" label next to a text input field; a "Father's name" label next to a text input field; an "Address" label next to a text input field; and a "Contact No" label next to a text input field. At the bottom are two buttons labeled "Save" and "Edit".

School Student Class Schedule:

SchoolClassSchedule

Date

Sunday , October 28, 2018

Class

Select Class

Show

Day	Time	Time	Time
Sunday			
Monday			
Tuesday			
Wednesd			
Thursday			

School Student result

SchoolResult

Class

Select Class

Roll

Show

Subiect	Number	GPA

School Student Attendance

SchoolAttendance

Date

Sunday , October 28, 2018

Class

Select Class

Subject

Select Subject

Roll

Search

Subject	presence

School Payment

SchoolPayment

Class

Select Class

Roll

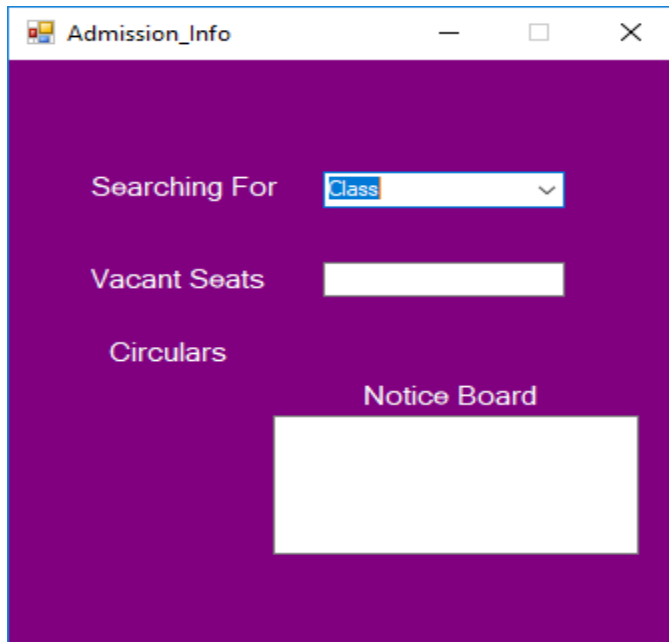
Admission Fees

Monthly Fees

Other Fees

Total Payment

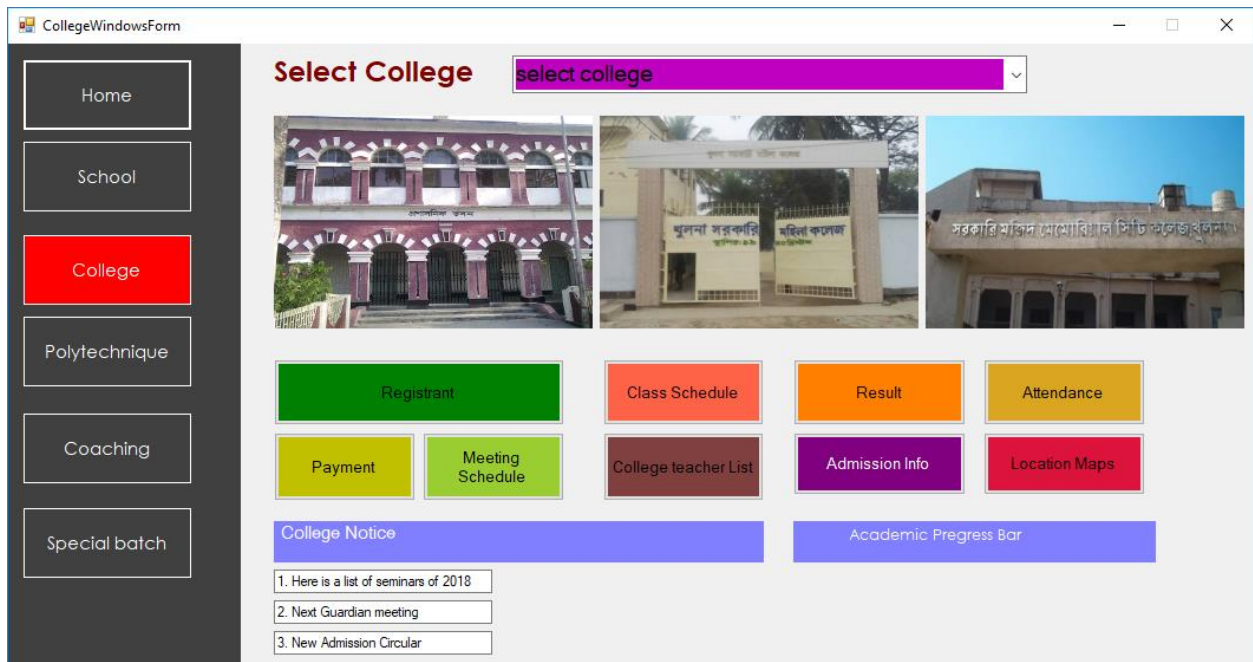
School Admission Info:



The screenshot shows a window titled "Admission_Info" with a purple background. It contains the following elements:

- Searching For:** A dropdown menu with "Class" selected.
- Vacant Seats:** A white rectangular input field.
- Circulars:** A label positioned to the left of the Notice Board.
- Notice Board:** A large white rectangular area for displaying notices.

College DashBoard



The screenshot shows a window titled "CollegeWindowsForm" with a dashboard layout. It includes:

- Left Sidebar:** A vertical list of buttons: Home, School, College (highlighted in red), Polytechnique, Coaching, and Special batch.
- Top Section:** "Select College" label followed by a dropdown menu showing "select college".
- College Images:** Three photographs of college buildings.
- Function Buttons:** A grid of buttons for Registrant, Class Schedule, Result, Attendance, Payment, Meeting Schedule, College teacher List, Admission Info, and Location Maps.
- Bottom Section:** Two horizontal bars labeled "College Notice" and "Academic Progress Bar". The College Notice bar contains a list:
 - 1. Here is a list of seminars of 2018
 - 2. Next Guardian meeting
 - 3. New Admission Circular

College Student registration

CollegeRegistrant

Class

Select Class

OR

Choose Department

Name

Father's name

Address

Contact No

Previous result

SSC

GPA

Save

Edit

College Class Schedule

CollegeClassSchedule

Date

Sunday . October 28, 2018

Class

Select Class

OR

Choose Department

Show

Day	Time	Time	Time
Sunday			
Monday			
Tuesday			
Wednesd			
Thursday			

College Student result

CollegeResult

Class

Select Class

OR

Choose Department

Roll

Show

Subiect	Number	GPA

College Student Attendance

CollegeAttendance

Date

Sunday . October 28, 2018

Class

Select Class

OR

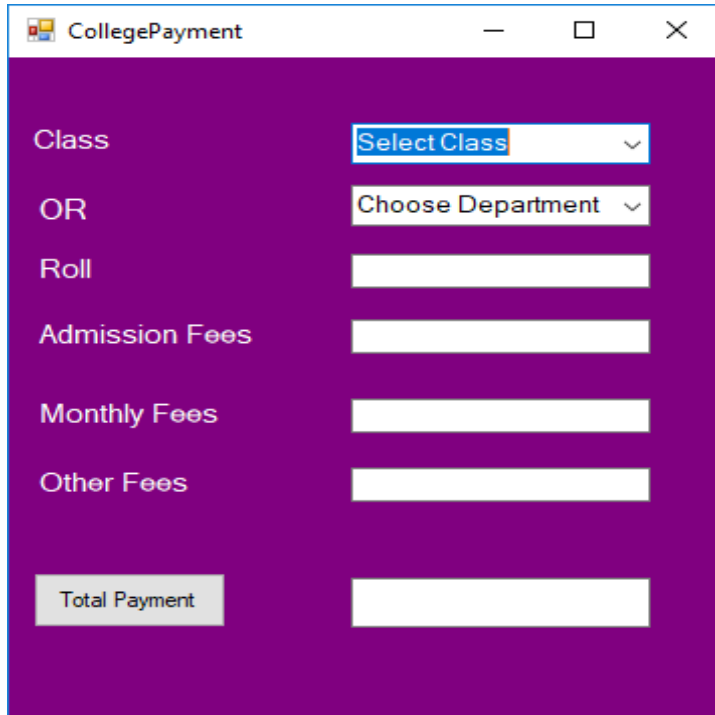
Choose Department

Roll

Search

Subject	presence

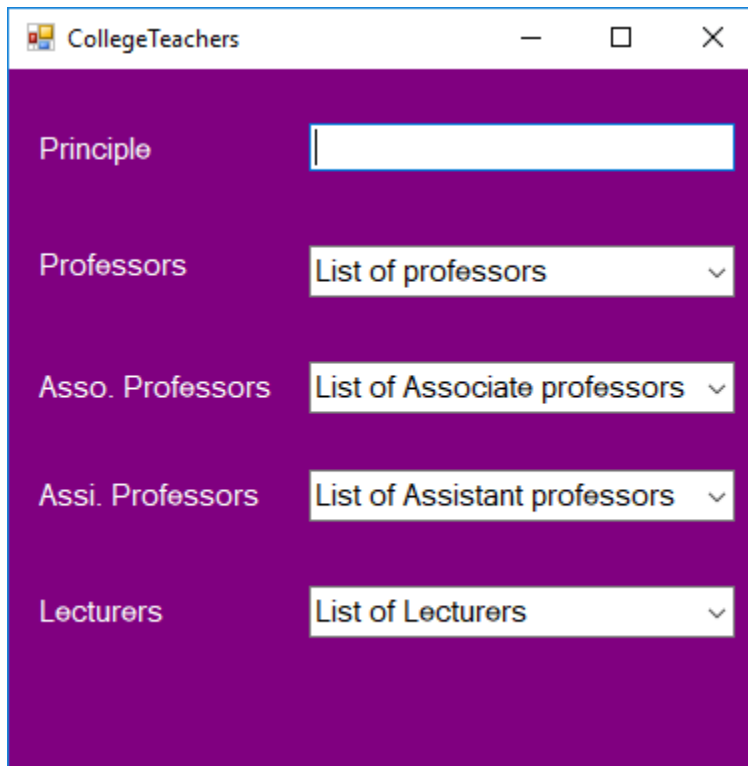
College Payment



The image shows a screenshot of a software application window titled "CollegePayment". The window has a purple background and a white title bar with standard Windows window controls (minimize, maximize, close). The main content area contains several input fields and a button. The labels are in white text, and the input fields are white with black text. The labels are: "Class", "OR", "Roll", "Admission Fees", "Monthly Fees", "Other Fees", and "Total Payment". The input fields are: "Select Class" (a dropdown menu), "Choose Department" (a dropdown menu), and five text input fields. The "Total Payment" label is next to a text input field.

Class	Select Class
OR	Choose Department
Roll	
Admission Fees	
Monthly Fees	
Other Fees	
Total Payment	

College Teacher list




The image shows a screenshot of a software application window titled "CollegeTeachers". The window has a purple background and a white title bar with standard Windows window controls (minimize, maximize, close). The main content area contains several input fields and dropdown menus. The labels are in white text, and the input fields are white with black text. The labels are: "Principle", "Professors", "Asso. Professors", "Assi. Professors", and "Lecturers". The input fields are: a text input field for "Principle", and four dropdown menus for "Professors", "Asso. Professors", "Assi. Professors", and "Lecturers".

Principle	
Professors	List of professors
Asso. Professors	List of Associate professors
Assi. Professors	List of Assistant professors
Lecturers	List of Lecturers

Polytechnique DashBoard

PolytechniqueWindowsForm

Select Polytechnique



Registrant Class Schedule Result Attendance Notice Board

Co-Curricular Polytechnique teacher List Scholarships Admission Info Location Maps

Polytechnique Registration

PolytechniqueRegistrant

Department

Name

Father's name

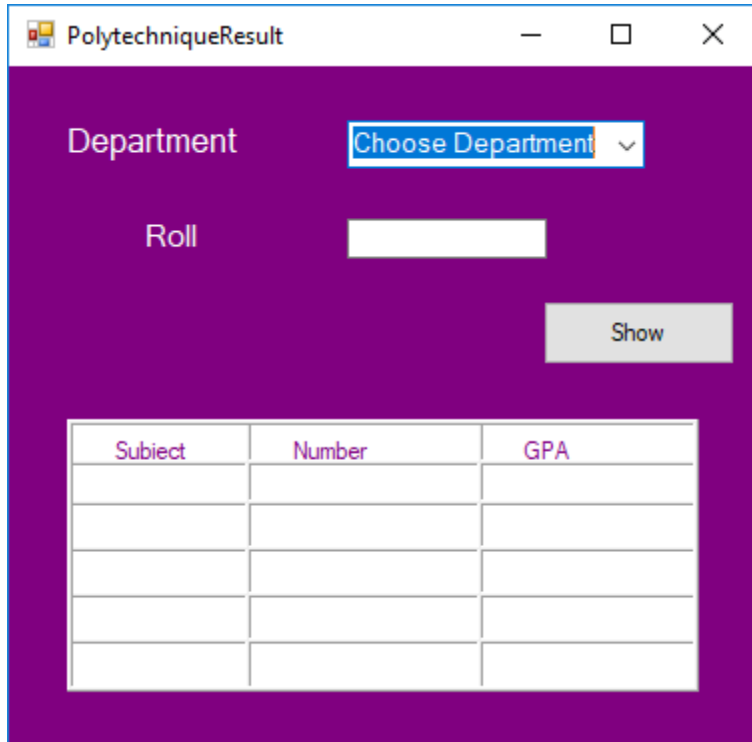
Address

Contact No

Previous result

Save Edit

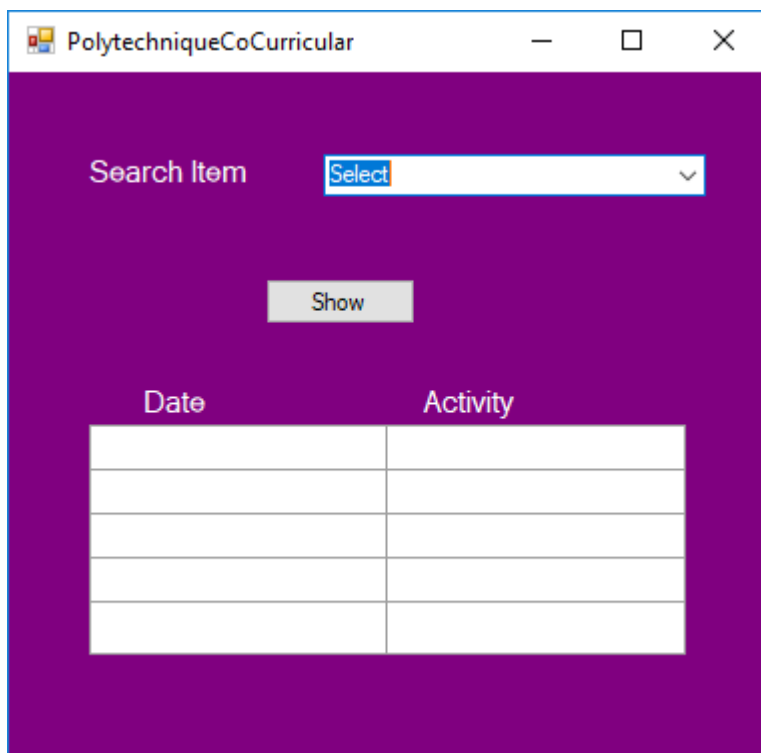
Polytechnique Result



The PolytechniqueResult application window has a purple background. It contains a 'Department' label, a dropdown menu with 'Choose Department' selected, a 'Roll' label, an empty text input field, and a 'Show' button. Below these is a table with three columns: 'Subiect', 'Number', and 'GPA'. The table has five empty rows.

Subiect	Number	GPA

Polytechnique Co-curricular



The PolytechniqueCoCurricular application window has a purple background. It contains a 'Search Item' label, a dropdown menu with 'Select' selected, and a 'Show' button. Below these is a table with two columns: 'Date' and 'Activity'. The table has five empty rows.

Date	Activity

Polytechnique Scholarship

PolytechniqueScholarship

Scholarship Notice

Student Role

Student Name

Scholarship Type

Coaching DashBoard

CoachingWindowsForm

Home

School

College

Polytechnique

Coaching

Special batch

ইদ্রাম

রেটিনা

ডিনেশ

উদবাহ

উনমেশ

ওমেগা

ইউসি

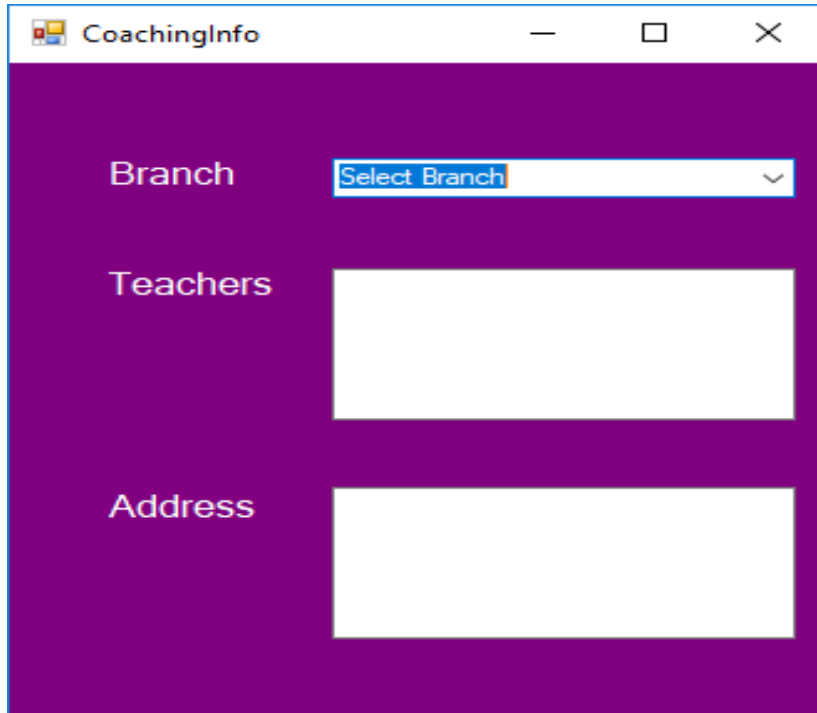
রেটিনা

ফোকাস

ইএলটিএস

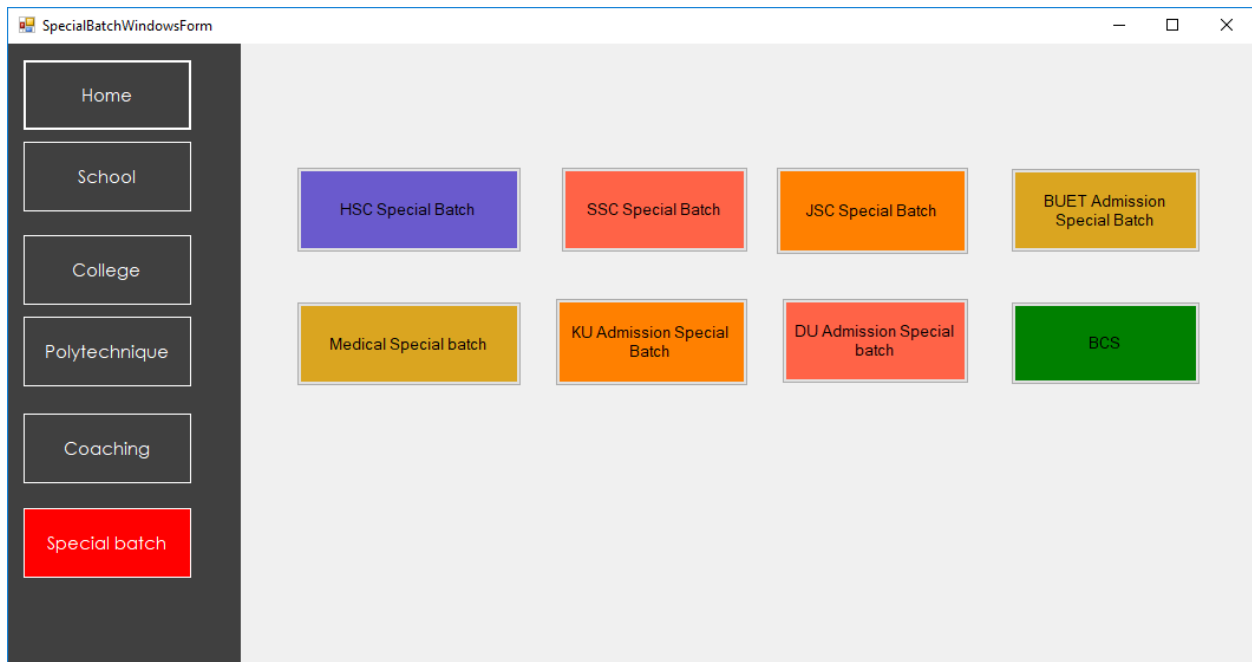
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Coaching Info



A screenshot of a Windows application window titled "CoachingInfo". The window has a purple background. It contains three labels on the left: "Branch", "Teachers", and "Address". To the right of "Branch" is a dropdown menu with the text "Select Branch" and a downward arrow. To the right of "Teachers" is a large white rectangular text area. To the right of "Address" is another large white rectangular text area.

Special Batch DashBoard



A screenshot of a Windows application window titled "SpecialBatchWindowsForm". The window has a light gray background. On the left side, there is a dark gray vertical sidebar containing six buttons: "Home", "School", "College", "Polytechnique", "Coaching", and "Special batch" (which is highlighted in red). The main area of the window displays eight colored buttons arranged in two rows of four. The top row contains: "HSC Special Batch" (blue), "SSC Special Batch" (orange), "JSC Special Batch" (orange), and "BUET Admission Special Batch" (yellow). The bottom row contains: "Medical Special batch" (yellow), "KU Admission Special Batch" (orange), "DU Admission Special batch" (orange), and "BCS" (green).

Special Batch Info

[illegible]