# C#\_SQL Assignment

**Technologies**:

1. C# (windows app)
2. MySQL/ SQL server
3. Three tier architecture required. API layer is must between frontend and backend. Any type of API can be used
4. Use of any third party tool for UI controls will be added advantage (Optional)
5. Okay to use Wpf (Optional)
6. Git/Svn for sourcecontrol

**Use case**:

Data entry application required for managing member’s information of multiple branches of school. School admin can view and manage information of all the members of various school. Principal will be attached to particular school (one to one) and will have access to view and manage all members of respective school. Teacher will be attached(one to one) to particular class and will have access to view and manage respective class students information. Student can view their own info and can upload their own docs.

Roles involved :

1. Student

Actions:

1. View own info
2. Upload document files (Miscellaneous like pan card/Aadhar card)  along with relevant document number(Pan no)
3. Teacher

Actions:

1. Add/edit Students along with for respective class  : Name, Gender, Class (Auto filled/non-editable), Birthdate, Address(street, city,state,country,postalcode), emailID, Contact No
2. View students list with ability to view information

Filters to be availed for birthdate range, Name

1. Principal

Actions:

1. Add/edit teachers along with info for particular class  : Name, Gender, Class (dropdown), Birthdate, Address(street, city,state,country,postalcode), emailID, Qualification,Contact No , School branch(Auto filled/non-editable)
2. View students list with ability to view information (for respective school)

Filters to be availed for birthdate range, Name, Class

1. View teachers list with ability to view information(for respective school)
2. Central admin (hardcoded in database)

Actions:

1. Add/edit new branches with address
2. Add principal for particular branch with details

Name, Gender, Class (dropdown), Birthdate, Address(street, city,  state, country, postal-code), emailID, Qualification, Contact No , School branch(Dropdown)

1. Should be able to view all members of all school branches.

Should be able to filter the member list using branch, role, school, class(if students role selected), creation date range, birth date range

**Completion Time : 5 Days (1st July EOD)**

Below components to be delivered by above mentioned date in suggested format :

1. Git/Svn url of working sourcecode for above mentioned project/use case.
2. Video demonstrating all functionalities of working app
3. Document listing configuration required to run code seamlessly uploaded at git/svn