

Section 1: Domain description (text)

Section 2: Constraints (Data level, application level, GUI level etc)

Section 3: Functionality supported (It should be reasonably good/complex)

Section 4: GUI Layout/ Navigation and the purpose (What screens and what for)

Section 5: Technology used (Programming, DBMS, and any other Tools)

Note that this is GUI based Application.

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Section 1: Domain Description

Our institute awards scholarships to the students under **Merit** and **MCN scholarships**. Every year students are supposed to submit their details to make their profile approved for MCN scholarship. Whereas, the students who are to be awarded a merit scholarship are decided by the admin.

Our project is proposed to create an **interface** where students can fill in their details like **Name, ID, CGPA, Father's details including income and Mother's details including income**. These details are primarily stored in a table containing details of all students. Usually, once the details from students are taken, the committee divides students into which category, that is, how much percentage of the total fee, the scholarship is awarded. Identifying other tables which are essential for the admin to continue with the process, we would need a table of academic **department** details, **cut-off**(CGPA) table for merit scholarship, cut-off(CGPA) for MCN scholarship. A table of **fee-structure** for different batches(like 2017 batch, 2018 batch etc.) would also be needed.

The interface will also be used by faculty to access student data(only few details), only of those who are registered in their department.

Finally, once the details are submitted by the user the interface which we develop, backed up by the database we have, the interface has to show if a student is eligible for Merit/MCN scholarship. If yes, then what percentage of scholarship is he/she awarded, and the amount of fee to be paid after deductions.

Section 2: Constraints

1. A student can avail either MCN or merit scholarship as per our institute rules.
2. Fee structure for each batch is different, so even with equal concession in fee through scholarship, the fee to be paid may differ.
3. Login credentials must be of certain format(for eg f2018xxxx) and the password must be hidden while entering.
4. Faculty can't access a few details of the students like income details, parents' details.
5. We store the data of the current academic year only.

Section 3: Functionality Supported

Providing user interface to insert student(user) details while registration and functionality to login once user already registered,

Provide report generating interface for

- 1) Generating All details entered by users (students).
- 2) Generate scholarship cutoffs(based on CGPA and income for MCN scholarship, and only CGPA for merit scholarship)
- 3) Generate fee structure batchwise and the fee to be paid after scholarship.
- 4) A functionality to submit an application to avail MCN scholarship.
- 5) To generate a list of all students awarded MCN/merit scholarship.

Section 4: GUI layout

1. User login page for users with different permissions.(faculty/students)(with username and password)
2. Once logged in, the user will be able to see the dashboard. Dashboard will show all the details like,
 - If applying for the first time, an option to fill in details(for student data table)
 - Status of the application
 - Scholarship approved/not
 - If yes, how much
 - Fee to be paid after deductions

Section 5: Technology used

1. RDBMS - MySql
2. Programming - PHP

Feedback

1. Different kinds of user permissions.
2. At least 4 different kinds of reports are to be generated.