



## **CS262 Term Project**

1. Term Project will be done in group of two to four members.
2. Groups can be made within sections.
3. Working on project will be started from April 6, 2023. Gitlab Repositories should be created from April 5, 2023. and add [samyan.uet@gmail.com](mailto:samyan.uet@gmail.com) as Maintainer.
4. Progress on project will be tracked from Gitlab accounts
5. Project will be evaluated based on rubrics described in the document(all the rubrics are based on basic requirement).
6. Bonus tasks will be compulsory for the groups having 3 members.
7. Deadlines will be as followed:

<b>Milestone</b>	<b>Deadline</b>
Selection of Project	April 4, 2023
Repositories Submission	April 5, 2023
Detailed requirement document	April 8, 2023
ERD Design	April 10, 2023
GUI of project	April 13, 2023
Object Oriented Design	April 15, 2023
Database Design	April 17, 2023
Implementation of Design	April 28, 2023
Project Documentation	May 2, 2023
Project Testing	May 4, 2023
Resolution of Issues	May 6, 2023
Project Viva	Any time after May 2, 2023 (One member can be chosen only)

- Basic requirement are being shared, you are required to add more features on your own and write detailed requirements to remove any ambiguity. Detailed requirement should mention the UI design using pencil tool.
- In all of these projects, basic requirement to save data in database.

- Any framework could be used except Mobile Application
- Any language could be used
- Students can use Entity frameworks of any language in addition to queries

### **Basic Requirements to be implemented in the project.**

1. Minimum 8 domain classes
2. Minimum 5 software classes
3. Entities in ERD(Minimum 10)
4. Database tables(Minimum 15)
5. Validators
6. Use of collection classes of ArrayList, LinkedList, Queue, Stack, HashSet and TreeSet properly
7. Handle exceptions
8. UI should contain text boxes, password fields, radio button, check boxes, dropdowns, date selector fields, text areas, scroll bar, tables, buttons inside table, use of panels for at least 3 forms, file menu on each screen, use of same form for add and edit.
9. Logging in case of errors
10. Use of transaction wherever required (at least 3 examples)
11. Use of views (at least 5 examples)
12. Use of Stored procedure(minimum three)
13. Use of Triggers (at least 2 examples)
14. Use of constraints (at least 10)
15. PDF reports (minimum 10 business level reports)
16. Responsive UI
17. Reports generation based on parameters