**PROJECT REQUIREMENTS**

**DATABASE MANAGEMENT SYSTEM**

1. Develop an application supporting multiple users at the same time so that:
   1. Preventing problems, not allowing inconsistent states in the database.
   2. Providing convenience, minimizing the waiting time for system users.
2. Submission: report + program
3. Report:

**Part I:**

Describe the problem.

Identify and analyze the requirement (functional requirements, non-functional requirements)

Design the relational model, relationship and attributes, describe the constraints integrity.

**Part II:**

Build the transactions for all store procedures, triggers in the project.

**Part III:**

Describe in detail the issues in concurrent transactions, simultaneous request to the database (with two assumed transaction T1, T2).

Describe in detail the solution to the problems presented: related transactions, isolation levels and lock-modes used for each transaction, which one is handled at stored procedure level, which one is handle at program level… and explain why?

**Part IV:** interface design

Describe in detail the way of communication between users and software function.

**Part V:** conclusion

Team roster: detailed description of tasks and responsibilities of each team member

Development environment and deployment environment

Achievements

Future Work

1. Remarks:

Student will get more points if the topic is new or the demo has following functions:

Backup and recovery.

Authorization.