

IT 4153 Term Project Brief

Last updated on Feb 27, 2012

IT 4153 projects allow students to explore their own interests and learn from their unique experiences. The project is customized to satisfy student needs and learn or apply knowledge in greater depth. Term project requires significant more time and effort, but in return you get experience. Please meet with the instructor to discuss your project. You need to work closely with the instructor and regularly report your progress.

There are two basic types of projects you can choose from:

1. A database development project.
2. An advanced database topic study project.

	Development project	Topic study project
Purpose	<ul style="list-style-type: none"> To develop a complete database solution for a particular information system in semi-realistic settings. 	<ul style="list-style-type: none"> To learn and apply a concept, product, practice or implementation of database technologies.
Features	<ul style="list-style-type: none"> Emphasizes on a more complete and working application in a more realistic context with fewer assumptions, which requires practical analysis and design. Students go through the complete development life cycle. Focuses on the development of a complete database solution for a small information system, including tables, constraints, queries, scripts, security, etc. Additional learning may be needed beyond the class, but it is rather limited. The functionalities and scope of the project may be negotiated. 	<ul style="list-style-type: none"> The project is not focus on a complete working solution, but an in-depth study and understanding. You have a chance to expand your learning of the advanced database topics and get something you are interested in. Development or implementation work may be needed to demonstrate your learning but no complete work is needed. Students do significant studying beyond this class on their own.
Deliverables	<ul style="list-style-type: none"> Analysis and design documentation Implementation report 	<ul style="list-style-type: none"> Learning summary in the form a written repot or a lecture note similar to the ones for this class.
Presentation	<ul style="list-style-type: none"> Conceptual design (ERD) Physical implementation of tables, relationships, constraints, views, indexes, etc. Demonstration of key operations that the database supports, including queries, scripts, maintenance, security 	<ul style="list-style-type: none"> Conceptual overview Demonstration of examples
Sample projects	<ul style="list-style-type: none"> Apartment rental management database Traffic tickets management database 	<ul style="list-style-type: none"> Entity-Attribute-Value model SQL Server Azure Metadata management Higher level normalization forms .Net CLR (C#) for SQL Server [See a topic list with references in a separate file.]

General schedule

Milestone	Date	Submission
Proposal (group, topic, and plan)	3/18	GAView
Proposal approval	3/21	In classroom
Progress report 1	3/28	In classroom
Progress report 2	4/11	In classroom
Presentation	4/23, 4/25	In classroom
Final report submission	5/1	GAView

Detailed presentation and submission information will be provided later for each type of project.