

(25 points) Milestone 5: Application/Demo

Purpose

- Application assessment
- 10-15 minute team presentation of work to the class.
- Demo of app

Requirements:

All of the following requirements must be satisfied:

- Your app must be a single unit. It must not be disconnected. All parts must be properly connected. That is, once a user enters your app, there is an appropriate navigation system and / or an execution flow allowing a user to achieve his / her goal(s) without (re)visiting another part of your app manually (for example, by entering another URL in a web browser's address bar to access another functionality of your app).
- The interactions between your app and the database must be correctly implemented and functioning properly.
- Overall, your entire project must work as expected; it must provide normal behavior, given the domain application of the project.

The rubric items will be graded during your demonstration. Please have your source code available. You are expected to explain your code snippets and discuss how these requirements are implemented or embedded in your code.

- You are required to demo your app using the program you officially submitted. Modification after the submission deadline is not allowed and we cannot give you credits.
- Since this is a database system project, it is crucial that **your app must successfully connect and interact with the database** to provide services. If the app cannot successfully connect and/or interact with the database, **no points** will be awarded (a zero grade will be assigned to the application portion of the final deliverable).

Demo:

A demo is limited to **15 minutes** (10 minutes demo + 5 minutes Q&A). To ensure that all teams are presented in a timely manner, we must ask you to stop when the time limit has been reached. Therefore, we recommend rehearsing the entire presentation and application demo.

You will sign up to demo your project. An announcement with details will be sent out when a demo sign-up sheet becomes available. **Please only sign up for one slot and do not remove the slot of another group.**

Demo/Application Rubric

- (5 points) — Application is demonstrated clearly.
- (2 points) — The app properly utilizes at least 10 different, normalized tables designed in the previous milestones
- (2 points) — The app includes all functionalities and necessary features you proposed to fulfill the project requirements
- (1 points) — Dynamic behaviors are properly included and functioning
- (6 points) — Allow users to perform the following functionalities through your software
 - (1 points) Retrieve data from the database
 - (1 points) Add data to the database
 - (1 points) Update data in the database
 - (1 points) Delete data from the database
 - (2 points) Do at least one of the following:
 - Sort data
 - Search or filter data
 - Export data (from the database) in some forms (such as JSON, XML, HTML, or CSV)
 - Reminder: this must be done through your app. Exporting data directly from the database management system (such as MySQL, Cloud SQL, or phpMyAdmin) does not satisfy this requirement.
 - Upload / import data (in some forms such as JSON, XML, HTML, or CSV) into the database
 - Reminder: this must be done through your app. Importing data directly using the database management system (such as MySQL, Cloud SQL, or phpMyAdmin) does not satisfy this requirement.
- (2 points) — Support multiple users, allowing users to use the app simultaneously without interfering with each other
- (2 points) — Allow returning users to access / retrieve / manipulate their existing data.
- (5 points) — Properly incorporate database security
 - (2.5 points) Proper database security at the database level
 - (2.5 points) Proper database security at the application level

To ensure all projects are realistic and demo and grading are completed in a timely manner, the following grading details have been added to the project's final deliverable.

- (-2 points) — Not include all necessary files to deploy and run your project
- (up to -5 points) — The project is unrealistic; database design is unreasonable or inappropriate or bad design; or the project and / or database design contain major flaws with respect to database-related concepts, including but not limited to, database design, querying, database interfacing
- (-2 points) — All partners must be present at the demo. Otherwise, 10 points will be deducted and you are required to reschedule the demo.
- (-2 points) — More than 5 minutes late for demo

- (-3 points) — Cancel or change the demo time less than 2 hours before the scheduled time
- (-3 points) — No show for the 1st signed up demo
- (-20 points for application, -5 points for user demo) — No show for the 2nd signed up demo
- (-20 points for application, -5 points for user demo) — No demo
- (-50 points for the entire final deliverable — No submission (regardless of whether you attempt to demo or not)
- Personal effort (if you work with a team): **up to 100% penalty may be deducted based on your contribution and the peer evaluations**