

Overview

Your final project will consist of a database-driven web application supporting an event-management company, containing the database tables and features developed in class, plus other database tables and features decided by you. It is due in its completed form on the last day of class. You will need to work on it outside of class in order to produce a high quality result.

Groups

You already have been assigned to your group. Success will require all group members to work together well to plan and to implement all project features. Non-participation will be documented and will affect your individual mark.

Marks for Your Individual Contribution (Lab-based Participation)

You must attend each class or Zoom session in full. Also, you must upload your work done in your personal project folder (as a **Lab**) before the next class. Missing your lab deadlines will reduce your mark. **Your group project mark will be prorated by this individual mark.** For example, a group project mark of 80% with an individual participation mark of 50% will result in an individual final mark of $80\% * 50\% = 40\%$.

Minimum Project Requirements and Milestones

Your project will need to meet the minimum requirements and deadlines described below to get a passing grade (60%, or C). If you plan to exceed the minimum requirements, and you do succeed, you can achieve a higher grade. The recommendation is to make ambitious plans to start with and then try to implement as much as you possibly can.

Design – Plan, discuss, and get approval ASAP

(Mar 7)

- **Approved Topic** – your event-management company will deal with certain types of events only
- **Approved Features** – you will add several features related to your company's type of events to the starter app
- **Approved ERD** – showing all tables, relationships, primary and foreign keys, and data types. Minimum ERD is the basic e-commerce ERD + 6 more tables of your choice to support your approved features

Database and Admin CRUD

(Mar 13)

- Database – database according to 4 tables created in class (Product, Cart, CartItem, Customer).
- Visit other E-Commerce for ideas with some sample records in each table
- MVC Project – with all Admin CRUD functionality working
- MVC Project –working Public, User, and Admin components, with My Profile, Buy, and My Cart features (Shopping Lecture, Lab 7 and Lab 8)

Basic Features: You will be required to demonstration for 10 minutes on how the project works

Your project must have at least the following pages / features:

(Mar 20)

- Home Page – showing a listing of products, and allowing the user to search and buy products
- My Profile Page – showing information about the user, allowing them to edit and save
- My Cart Page – easily accessible by link from main menu, allowing user to view and manage their cart
- Admin CRUD links – allowing the administrator to edit tables and all admin functionality accessible from a single page, e.g. display all Carts, all Customers, etc. All pages must follow a consistent theme and style.
- Contact page –shows the website author information. Banner image –present on all pages
- Can't create duplicate records. Search by use DropDownList, TextField, Radio button and so...
- Validation attributes used on model classes
- The user must not ever see any errors, preferably accomplished by disabling inappropriate links
- Extra Pages to support the 6 more **significant** features (i.e. complex enough to require an extra table)

Advance features and functionality

(April 3)

To increase your mark, you will have to plan for and successfully implement more than the basic features as described above. As a rule, approximately 4 extra features will be needed to be considered for each increased grade level. You may look at any event booking or management website or app for ideas. Remember that features that involve additional tables are always worth more. For example, some interesting ideas might be the following:

- Customer Analytics – tracking customer actions in order to: follow up on unfinished sales, know customer favorites, send promotional emails with useable links to your app, show customer personalized promotions, etc.
- Adding more images – thumbnails on index view and full-size on details view (and replace tables with grids)
- Keeping track of most popular events – most attended or most searched, perhaps
- Having sales or promotions, using a discount code of some sort which reduces the price
- Showing clickable ads to the user – randomly, or according to type of item ordered
- Event Manager Home Page – allowing logged-in event personnel to have their own appropriate functionality
- Marketing Home Page – allowing a logged-in event marketing personnel to manage promotions, target customers
- Submit it your project by appointment. **You will be required to demonstration for 30 minutes** on how the project works pointing out the major strength and known problems.
- Prepare a summary report that includes:
 - ERD copied from the project.
 - List of new features that you have implemented that are Extra Features(features in Mandatory Requirements and Minimum Features are not extra features and should not be include

Marking Scheme

Your project will be marked as described below. Essentially, if you do only the minimum as described above, and nothing is missing, and it works properly, and is well-organized, your project will pass with a grade of C (60%). If you successfully implement more than the minimum in any or all of the categories, your mark will increase. And if you do not meet the minimum requirements, your mark will decrease.

Category	Grade		
	C	B or A	D or F
Attendance and Milestones	Minimum requirements as described above	All classes attended and working on project throughout class time. All milestones met successfully (on time). Project finished with enough time for thorough testing and improvements.	Missing, late, or incorrectly implemented features or not functioning properly
Design		All preliminary design elements submitted in good time, approved, and implemented as planned. Lots of time left to work on website functionality.	
Pages		More complex or interesting pages implemented, resulting in more capabilities of the website (e.g. additional functionality, etc.)	
Database		More tables implemented, resulting in more complex capabilities of the website (e.g. additional content types, additional functionality, etc.). ERD not changed after initial design.	
Overall Effect	Clear presentation and correct operation, with good	Well thought-out website design and functionality, with attractive layouts and color choices, and well-organized	Unfinished, unclear,

	organization, page layout, etc. Different from other websites in class.	website structure. Showing originality, attention to detail, and quite different from other websites in class.	buggy, disorganized, messy website design, etc. Too similar to other websites in class.
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Project Advice

Your project mark is based on many criteria (see original project document). To achieve the project mark you are aiming at will require successfully meeting all these criteria. To assist you in planning for this, here are some observations and tips. Note that every project requirement in the preceding document still applies – these are simply helpful notes to assist you at the planning stage.

Type of features vs grade

The amount a feature is worth depends on its complexity. A feature that involves a table with more than just a couple of fields, and which is related to one or more other tables in your ERD, is worth more than a simpler type of feature. If you are aiming for a higher grade, then you should concentrate on these types of features. Those features that rely on a completely unrelated table of information (entered by the admin) are not worth much.

Number of features vs grade

Extra features will need to be approved and successfully implemented to achieve a grade over 60%. A rough guide might be 3 extra features per grade level (i.e. 6 extra features successfully planned and implemented to achieve an A). This is not guaranteed but depends on the complexity of the features and the similarity of the features to other projects in this course.

Same features in many projects

Duplication of features across different projects in the same course will decrease the amount these features are worth. For example, if every project implements a FAQ and a Category table, then these features are not worth as much as otherwise. But if a unique feature involving a table with more than a few fields and a foreign key or two is implemented, then this is worth more.