

Project Assignment

This project assignment ask you to develop a web application. The requirements lists below.

Requirement:

1. Select the domain and product.

- You must provide a detailed write up describing what domain and products will be managed by the application.

some examples of domains and products:

- **car store** : Each product will be a car with properties of year, model name, options package, color, motor size, price, consumer reports grade, 0-60 acceleration, fuel type etc.
- **Movie Rental**: Each product will be a movie with title, year, genre, leading actor, studio, director, length, rental price, cost production, estimated box-office revenue etc.
- **travel Plans**: Each product will be a trip with properties of data, trip title, destination, demarcation point, cost, duration, tour guide, strenuous rating etc.
- **Dating Site**: Each "product" will be a person with properties of sex, age, nationality, favorite hobby, political description, height, weigh, "wow" factor value, introvert-extrovert scale rating etc.

2. You must provide a detailed write up describing the high level features and functionality that will be support by the application

- the features that you should definitely include are:
 - list all products
 - add new product
 - edit existing product
 - delete an item
 - search for an item.
 - Features such as shopping carts, customer reviews, order forms are nice options. [Bonus 5 marks]

3. You must provide an initial Sitemap illustrating all the logical pages of the application and how they will interact with each other.

- For review of building a site map, please watch this video: <https://www.youtube.com/watch?v=q59IJ6rRrGU>

4. Your project should have the following pages at a minimum.

- Login
- Register

- Product list page
 - Create new product
 - Edit product
 - The project must be done individually
5. you need provide a complete description of what domain and products will be. Describe high level features and functionality that will be support by the application.
6. the project report should includes the following sections: [50 marks]
1. your name and student number [2 marks]
 2. Design Documentation
 1. General technical approach: you should, in words, describe your approach and design here. [5 marks]
 2. Key Technical Design Decision: any final technical design decisions, such as framework decisions etc, should be documented here. This should list the technology / framework, its purpose in the design, and why it was chosen. [10 marks]
 3. ER Diagram: image of your ER database diagram : <https://www.youtube.com/watch?v=QpdhBUYk7Kk> [10 marks]
 4. Sitemap Diagram: image of your Sitemap diagram [10 marks]
 5. User Interface screenshot [3 marks]
 6. class diagrams: you should insert any class diagrams here, Your class diagrams should be drawn correctly (UML Class Diagram: <https://www.youtube.com/watch?v=UI6lqHOVHic>) [10 marks]
 1. 3 appropriate class compartments (name, properties and methods)
 2. +plus and - minus to indicate accessibility of each item
 3. the data types for the state/properties
 4. the data types of method arguments and return types.

The documents you need upload

1. Project report (words or pdf) [50 marks]
2. source code (project file) [40 marks]
 - Model [15 marks]
 - Control [15 marks]
 - View [10 marks]
3. WRA file of your web application [5 marks]
4. DDL scripts file [5 marks]
 - Using phpMyadmin: [https://youtube.com/watch?v=aAoYaZzWRgw](https://youtube.com/watch?v=aAoYaZzWRgw;);
 - Using MySQL Wrokbench: <https://www.youtube.com/watch?v=FJ6vIssX3Dw&t=3s>

You should package all these four files into one zip file and upload to the canvas.