

**Web Technologies**

**TT284**

Tutor-Marked Assignment (Fall 2022/23)

**Cut-Off Date:** Based on the Published Deadline.

**Total Marks: 100** marks turned to 15 marks

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**Plagiarism Warning:**

As per AOU rules and regulations, all students are required to submit their own TMA work and avoid plagiarism. The AOU has implemented sophisticated techniques for plagiarism detection. You must provide all references in case you use and quote another person's work in your TMA. You will be penalized for any act of plagiarism as per the AOU's rules and regulations.

**Declaration of No Plagiarism by Student (to be signed and submitted by student with TMA work):**

I hereby declare that this submitted TMA work is a result of my own efforts and I have not plagiarized any other person's work. I have provided all references of information that I have used and quoted in my TMA work.

Name of Student:……………………………..

Signature:…………………………………………...

Date:…………………………………………………

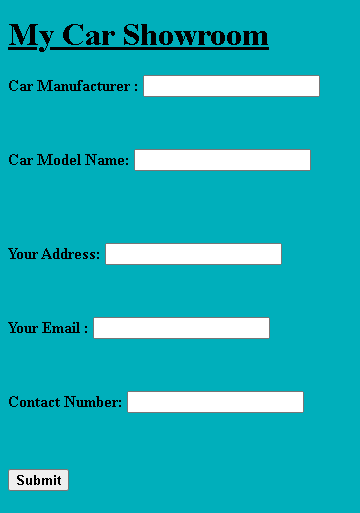
**Question 1: [50 marks]**

You are required to create a web application **“My Car Showroom”** by using XHTML, JavaScript, CSS, PHP and MySQL, based on what you learnt in Block1, Block2 and Block3. Assume your car showroom contains a variety of cars from different Car Manufacturers as under as an example :

|  |  |
| --- | --- |
| **Manufacturers** | **Cars Models** |
| Toyota | Yaris, Corolla, Camry etc. |
| Ford | Explorer, Taurus,  Expedition, etc. |
| Hyundai | Accent ,  Elantra, Santa Fe etc. |

You are allowed to use any 4 kinds of Car Manufacturers with any 6 Models suitable to you for Your Car Showroom with the below given specific requirements :

* Review similar project works to check how your competitors in the market (who are running such business projects / web applications). You are required to mention the quick review of any three similar project models according to your choice and interest which will help you to design your own web application.
* Develop a **home page** with the following criteria:
  + Your Page Title (“Choose your own name for your Car Showroom)
  + Design your own logo according to your creativity and place on left side.
* Write basic XHTML code for the title and short description about your “Car Showroom” and CSS code for the heading tag that will be used in several pages of a static website. Choose any available font with any suitable size and properly aligned to the page.
  + Links to other pages
* **On First Interior page,** you must create 4 categories of Car Manufacturers of your choice.
* **Second Interior page,** this page is for displaying at least **6 Cars** of your choice inside any one selected **Car Manufacturers.** If the user clicks on any **Car**, it should provide the user full details, about the car including price and image.
* **On third Interior page** create a **Purchase order form**. Suppose that client wants to purchase any Car from your “Car Showroom” by using the below similar form for the user input data.



[This is only a Sample – However, you can use your own creativity to design the Purchase order form in your own way]

* **Last Interior page,** is the Contact Us page. It should provide your full address, email ID, telephone#, location of your Car Showroom.
* Create a table and insert data in the form of a table in the **back end** by using (MySQL and PHP), (sample shown in the below pic.) [table must contain 5-10 records of data]

|  |
| --- |
| car\_ manufacturer car\_model\_name email\_address contact\_number |
| Toyota Camry rou1@gmail.com 682993110  Ford Taurus ray2@gmail.com 738389001  Hyundai Elantra sah3@gmail.com 881493112 |
|  |

**Submission Requirements and Mark Distribution for Question 1.**

|  |  |  |
| --- | --- | --- |
| 1 | Review of three models | 3 Marks |
| 2 | Home page | 7Marks |
| 3 | First Interior page | 5 Marks |
| 4 | Second Interior page | 5 Marks |
| 5(a) | Third Interior page | 5 Marks |
| 5(b) | XHTML code (Form) | 7 Marks |
| 5(c) | CSS code | 3 Marks |
| 5(d) | PHP code (Server Side) | 5 Marks |
| 5(e) | MySQL code | 5 Marks |
| 6 | Contact us Page | 5 Marks |
|  | **Total** | **50 Marks** |

**Note:**

*(Your Answer must be supported with all screen shots of all web pages including before and after data submission and with recorded table – otherwise there will deduction of marks)*

**Question 2: (35 Marks)**

In reference to the Question 1 **(My Car Showroom – Web Application),** prepare a report (600 to 700 words) on, how you developed your web application. The report will cover the following points.

**Submission Requirements and Mark Distribution for Question 2.**

|  |  |  |
| --- | --- | --- |
| **S. No.** | **The Web Application Development Process** | **Marks** |
| **1.** | **Introduction**  Web App, Mob. App, Native App, Hybrid App | 5 Marks |
| **2.** | **Site Layout:**  Sketch Your Web App **Design**. (4 Pages) | 5 Marks |
| **3.** | **Planning :**  Time and budget estimates. (charts) | 5 Marks |
| **4.** | **Functionality:**  Functional and non-functional requirements of your Web application | 5 Marks |
| **5.** | **Web Technologies:**  Software and Hardware requirements from  Client side as well as from Server Side. | 5 Marks |
| **6.** | **Testing and deployed**  Checking all functions/links and hosting your application | 5 Marks |
| **7.** | **References and citation**  (Minimum 5 references are required) | 5 Marks |
|  | **Total** | **35 Marks** |

**Question 3: (15 Marks)**

With reference to Block 2, prepare a short report in your own words on **“Service oriented Architecture (SOA) in Cloud Computing”.** The report length should be between 400 to 500 words with references and citation used properly. You can include the following points into your report.

|  |
| --- |
| *Introduction, Define SOA, Cloud Computing, Discuss in detail the SOA in Cloud computing, Conclusion, 3 References with proper citation.* |

|  |  |
| --- | --- |
| **Introduction** | **2** |
| **Define SOA** | **2** |
| **Discuss in detail the SOA in Cloud computing** | **6** |
| **Conclusion** | **2** |
| **3 References** | **1.5** |
| **Proper Citation** | **1.5** |
| ***Total of Question 3*** | ***15*** |