**CSE 5325 – Software Project Management**

**Project Scope and Feasibility Analysis**

**Fall 2019 - Assignment #1**

**Project description**

**Phase 1 due: Thursday Sept. 19, 2018; 5:00 PM**

**Grading: 5%**

**Submission via: Black Board (**[**https://elearn.uta.edu/**](https://elearn.uta.edu/)**) – Assignment 01**

**Obs: please use the following convention for naming your deliverable: SurnameName\_Assign1\_5325Fall2019. E.g.: KhaliliBahram\_Assign1\_5325Fall2019. Deliverable should be made in either PDF or Doc formats.**

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GTA E-mail is only for asking questions but not submission of assignment. Submission will be via blackboard.

For your first assignment, you will complete a “Project Scope and Feasibility” document based on the project listed at the end of this file. This assignment will focus on project scope and feasibility. For your selected project, complete the accompanied template for “Project Scope and Feasibility” document.

Please note that you will NOT be involved in coding in this class since the focus is Software Project Management. For the first assignment you must complete the “Project Scope and Feasibility” document individually.

**Project description: Dealership Management System (DMS):**

An automotive dealer who has been expanding greatly in the last 10 years by adding new stores wants to hire your software development company to understand, design, implement, test and release their new Web Page, which also happens to contain their internal Web Application, accessible only to their employees. As such you have a tight timeline of 3 months (the current Fall term) to not only come up with a good understanding of their requirements, but also to make sure to implement a system that meets their demands. In the first round of discussions, they were able to provide the initial set of requirements, which they determined to be the bare minimum for their new application to be useful. They, however, trust your team’s expertise in order to improve those requirements as well as in coming up with the proposal of new requirements that were not identified up to this point.

Project Duration: 3 months (Start date: Sept. 3, 2019; Delivery: Dec. 3, 2019)

Functional Requirements:

* Welcome Page: contains basic information about the company, such as “Who are we”, history, board of directors, list of addresses for all its current 6 stores, employee portal, etc.;
* User Registration: Enter employee personal information such as badge #, name, gender, department, username, password, etc.;
* Login: called from the employee portal, gives access to the web application;
* Makers: CRUD of auto makers (Ford, Volkswagen, etc.) and related information;
* Models: CRUD of auto models (Mustang, Camaro, etc.) and related information. Tied to Makers;
* Customers: CRUD of customers with related information;
* Inventory: Maintains the entire inventory of autos;
* Sales: Maintains detailed records about all sales. Tied to inventory and customers;
* Notes: Allows employees to keep personal notes about anything, such as requests, questions, to do items, etc.;
* Search: Allows for the search of customers, makers, models and sales.

Non-functional Requirements

* The web application should be able to handle 500 simultaneous connections at any given time;
* The web application should be secure. As such, it needs to make use of some modern Authentication technology;
* The web application needs to have high availability, as such, consider resource redundancy where applicable.

Additional Requirements

* The car dealership started as a family business. As such, the owner, being a traditionalist, does not trust technology so much, and has requested to have the software hosted within the company’s own datacenter. Due to this, please consider any hardware as well as any needed software licenses costs.

Further considerations:

* Assume all users over the age of 18
* Ignore any TAX issues
* Ignore any vacation and social and health insurance costs
* Ignore Post project maintenance issues
* Ignore any contract negotiation and legal concerns. Keep in mind, in real life; this is one of the most important aspects of the project. Try to maintain the full control over the source code whenever possible.