**CSE 5325 – Software Project Management**

**Project Scope and Feasibility Analysis**

**Fall 2020 - Assignment #1**

**Project description**

**Phase 1 due: Thursday Sept. 24, 2020; 10:00 PM**

**Grading: 10%**

**Submission via: Canvas**

**GTA Information:** Mr. Rodrigo Dos Santos

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

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: Personal Health Monitoring System (PHMS):**

A small healthcare company has employed your team to design and implement a website and a corresponding android application for mobile users to help their clients maintain various personal health-related data. This application will be used for keeping track of one’s vital signs, daily medicine intake, or following a diet regiment.

They would like to have their website & mobile app up and operational by Dec. 10, 2020. In addition to the minimum set of requirements listed below, they are open to any recommendation in functionality as well as look & feel of both the website and the android application.

Project Duration: 3 months (Start date: Sept. 10, 2020; Delivery: Dec. 10, 2020)

Minimum required functionality: The project must minimally include the following requirements. Client welcomes any additional functionality:

* Registration: Enter personal information such as name, gender, age, weight, height, doctor’s name, doctor visit dates, annual checkups, etc.
* Vital signs: Registering vital signs (e.g. blood pressure, glucose level, Cholesterol, …)
* Medication: Medication the patient is taking and time to take it, include a notification/alarm system for taking medication
* Diet: Allow individual to keep track of their food intake, calorie count and their weight
* Notes: Allow individual to keep their favorite recipes, diet descriptions, health articles, or general notes in this system
* System should be secure: To prevent unauthorized access. This is particularly important in order to avoid falsifying/altering information (such as Medicine type or intake time)
* Search: Search capability to find stored or general data
* Monitoring system: Application should inform the individual or other designees (e.g. children of an elderly or doctor / pharmacist) in case medicine is not consumed, or it has life-threatening medical conflict with other medicine.
* Communication: E-mail, cell phone calls and text message should be all provided for relevant communication information
* Data Maintenance: The data should easily be maintainable (i.e. to add a new doctor or a new medicine to the system should not need programming)
* Both the website and mobile app should have a great look & feel
* A brief test plan and user manual must be provided with the final product.
* All project management and staffing issues should be considered
* All software and hardware required for this project must be considered.

Assumptions:

* 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.