

In the previous 3 assignments, I explored the area of my interest, the type of project I want to do, the major players in the area, the actual problem, the possible solutions that exists, how is trying to solve the problem and what are they doing. I also got fantastic feedbacks from both my peer reviewers and my mentor.

My Project

For my project I want to do research on and develop a framework for developing patient education LMS tailored to reduce unplanned readmission rates by educating patients after they has been discharged from acute care centers.

The Problem

The 80th percentile of unplanned readmissions rate (patient readmitted within 30 days of been discharged) in acute care centers in the US is 20% [1]. This rate of unplanned readmissions increases healthcare cost [2] and decrease healthcare quality of service and patient satisfaction. A good number of this unplanned readmission can be avoided [3]. Several studies have demonstrated that patient education can reduce the number of readmission in acute care centers [4,5,6]. Most of the proposed solutions are focus in educating the healthcare provides. A few organizations and companies have tried to solve the problem educating the patient using moderns EdTech LMS [7,8]. But, I had not found any EdTech framework to develop patient education LMS.

What I'm proposing to address this problem?

I'm proposing to develop a patient education EdTech framework. To reduce the scoop of the project to fit in the time frame of this course, the framework to develop will focus on educating patients that have been discharged from acute care center in the last 30 days.

How I'm proposing to address the Problem?

The patient education EdTech framework to develop will:

1. Describe the EdTech components necessary to implement a patient education LMS,
2. Describe the main functionality of each component,
3. Describe the main interaction between the components,
4. Identify the best components from existing LMS that can fit in the solution, and
5. Identify any missing functionality and describe the component(s) that need to be developed to satisfy that functionality.

To develop this framework I will review existing LMS, identify the individual components that can be used in the proposed framework, enumerate the main pros and cons or each component, explain any modification necessary to fit in the patient education framework and why this modifications are necessary, identify and describe the functionalities of any missing component, and explain how those component can be integrated in an patient education LMS tailored to patients that have been discharged from acute care center in the last 30 days.

How will this project connect to and contribute to the community surrounding your problem or phenomenon?

The developed framework should serve as a guide for the design and implementation of patient education LMS. This project will also identify the missing functionalities and components to implement patient education LMS; this will help researches/programmers to focus they research/development effort in designing and building the missing components.

References

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- [4] Jack et al, 2009, A reengineered hospital discharge program to decrease rehospitalisation: a randomized trial. Retrieved from <http://www.ncbi.nlm.nih.gov/pubmed/19189907>
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