CMSC 198 – Practicum

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INSTITUTE OF COMPUTER SCIENCE
Midyear 2023

Week 1 Report
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July 15, 2023

a. Problems encountered

i. The current situation
Currently, an offline course package for a Database Systems course is not easily editable by educators who are unfamiliar with coding. The course package is primarily developed using JavaScript and HTML5, which requires programming knowledge to make modifications or updates to the content. As a result, non-coders face difficulties in editing the course materials according to their specific requirements.

ii. The expected situation
The expected situation is to have a user-friendly wizard tool that allows non-coders, such as other educators, to easily edit and customize the offline course package. The wizard should provide a simplified interface and intuitive steps to guide users through the process of modifying the course materials. This would enable educators without coding expertise to make necessary changes to adapt the course package to their specific teaching needs and preferences.

By providing a wizard tool, the expected situation is that non-coders can effectively and efficiently personalize the course content, structure, and assessments without the need to rely on programming skills. This would empower other educators to use and customize the offline course package for their own courses, enhancing its usability and scalability.

b. Proposed solutions

MERN-Based Wizard:
A user-friendly wizard using the MERN-stack (MongoDB, Express.js, React.js, Node.js) to modify HTML, JS, and CSS files and upload PDFs and other files/directories.

Python-Based Wizard:
A Python-based wizard with GUI or web interface to modify HTML, JS, and CSS files and copy/paste PDFs and other files/directories.

c. Implemented solutions

The approved solution was the Python-based wizard. The supervisor chose this solution because they considered the MERN-stack solution to be overkill for the given requirements.

The implemented Python-based wizard will address the problem by providing a user-friendly interface for modifying HTML, JS, and CSS files, as well as copying and pasting PDFs and other files/directories. It solved the problem effectively without creating any significant side effects.

Links:
SRS Version 1.0
Github

d. Summary of daily number of hours worked

Monday	Tuesday	Wednesday	Thursday	Friday
7/10/23	7/11/23	7/12/23	7/13/23	7/14/23
8:00 AM-5:00 PM	8:00 AM-5:00 PM	8:00 AM-5:00 PM	8:00 AM-5:00 PM	8:00 AM-5:00 PM
			Total hours this week:	40

e. During my first day at UP Open University - ICT Development Office, the morning started with a flag ceremony at 8 am. Following the ceremony, I had an orientation with the ICTDO director, who provided me with insights about UPOU and ICTDO. I was introduced to the terms and conditions of my OJT and completed the necessary forms, including the schedule sheet.

Later in the afternoon, at 4 pm, I had another orientation with my supervisor. This meeting allowed me to gain a clearer understanding of my responsibilities I would be required to fulfill throughout my practicum. I had the opportunity to discuss Dr. Ria's research project entitled "Offline Course Package for a Database Systems Course." She showcased how the system worked and proposed the inclusion of a wizard that would enable educators teaching various subjects to customize the offline course package for their specific needs. Dr. Ria also mentioned the possibility of creating an SQLite Console for a database management systems class if I were to complete the initial project ahead of schedule.

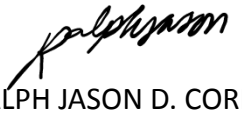
On the second day, I started drafting a Software Requirements Specification (SRS) for a MERN-based application. However, I realized that developing a web application would be challenging. Dr. Ria concurred with my assessment, advising me that it would be overkill. I shifted my focus towards developing a Python-based wizard. I searched on the web to make sure that I can implement all the necessary functionalities. After a few hours, I made the decision to use Python and began implementing some of the required functionalities. At around 4 pm, I informed Dr. Ria of my progress and discussed the direction I had taken.

Continuing on the third day, I dedicated myself to further advancing the project. At around 3 pm, I presented my progress to Dr. Ria, who provided valuable feedback and recommendations on additional features that could be incorporated.

On the fourth day, I continued working on the project. I was unable to consult with Dr. Ria due to her involvement in a meeting. Despite this setback, I remained focused and made significant progress. Additionally, I submitted the Version 1.0 of the SRS via email and uploaded my project to GitHub for the first time.

Moving on to the fifth day, I continued the development of my project.. I focused on refining and implementing necessary functionalities. Due to my supervisor's ongoing meeting, I was unable to consult with her for further guidance or feedback.

Throughout each day, I adhered to a set schedule, arriving at the UPOU headquarters before 8 am. I took my lunch break from 12 pm to 1 pm. At the end of the day, I left the office promptly by 5 pm.

Prepared by:	Certified by:
	
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