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Introduction

1. Purpose of CTU-Buddy website

The purpose of the CTU Buddy is to provide students with a professional and straightforward user-friendly platform. It serves as an invaluable tool in fostering academic success and facilitating an enhanced learning environment at CTU. The platform aims to assist students in efficiently managing their timetables, actively engaging in discussions, easily sharing resources, and effectively connecting with their peers and educators. Overall, the CTU Buddy aims to create a seamless and efficient platform that empowers students to excel in their academic journey while promoting productive collaboration and communication within the CTU community.

2. Project Scope

Inclusions

- home page
 - Create an engaging and immersive interface with images, videos, and animations to showcase key features of CTU-Buddy.
- timetable page
 - Design a user-friendly timetable using HTML tables and CSS to help students manage their schedules effectively. Display important information such as dates, times, modules, and days of the week.
- discussion page
 - Develop an interactive platform where students can post questions related to their studies and receive responses from their peers. Incorporate features such as threaded discussions, user profiles, and moderation tools to facilitate a productive learning community.
- share resources page
 - Allow students to upload and share educational resources in PDF format. Implement secure and user-friendly features such as resource uploading, categorization, and search functionality to make it easy for users to access and download resources.
- about us page
 - Provide valuable insights into CTU-Buddy and the team behind its development. Include information about the system's purpose, vision, mission, and the individuals involved in creating it to foster a sense of connection and trust between users and the platform
- contact us page
 - Integrate a contact form for users to submit inquiries, suggestions, or feedback. Include a map showcasing the location of the CTU campus to provide users with a visual reference and enhance their experience.

Boundaries

- The website will only be accessible to students and staff members of City Technical University (CTU).
- The website will not include any personal information or sensitive data of the users.
- The website will not provide any functionality for student enrollment or course registration. It will solely focus on enhancing the learning experience.
- The website will not include any advertisement that may redirect users away from the CTU-Buddy platform.

3. Team members with Roles and Responsibilities

Phillip Potgieter 20231256

- Is responsible mainly for the research on how things work and how to make the platform functional
- Role – researcher, and coder

Sebastian Van Zyl 20230301

- Is mainly responsible for the content on the platform
- Role – content provider and coder

Tayla Potgieter 20231256

- Is mainly responsible for time management and instruction to the other members
- Role – manager, and coder

Joint responsibilities

All team members are responsible for the coding of the website and the documentation.

Project Description

1. User needs

The development of CTU-Buddy is based on the identified needs of the students at City Technical University (CTU). These needs include a comprehensive and interactive educational system that enhances their learning experience. The website will provide the user with a timetable for effective schedule management, a platform for collaborative learning, and a resource-sharing page for easy access to educational materials. Additionally, the website will include an About Us page and a Contact Us page to foster a sense of connection and trust between the users and the platform.

2. Project goals

The main goal of the CTU- Buddy project is to create a comprehensive and interactive website that meets the needs of CTU students. The website should provide a user-friendly interface, engage users through multimedia elements, and offer functionalities such as a timetable, discussion platform, resource sharing, and contact form. Some of the project goals are to foster collaborative learning between students with the idea that the students should share their resources. With the timetable, the students can manage their time efficiently.

3. Project purpose

The purpose of developing CTU-Buddy is to provide a centralized educational system for students at CTU. The website will serve as a hub where students can access their timetables, engage in meaningful discussions with their peers, share and access educational resources, and connect with the CTU-Buddy team through the About Us and Contact Us pages. The overall purpose is to create an immersive and efficient learning environment that supports the academic journey of CTU students. With this website, we hope to provide a positive light in students' academic lives.

4. Project problem

Problems with the resource-sharing page

- Security measures for resource sharing: the project requirements mention that students will be able to upload and share educational resources in PDF format. It is important to implement appropriate security measures to protect the website and its users from potential threats, such as unauthorized access or malicious file uploads.

Problems with the discussion page

- Lack of moderation: Without proper moderation tools and guidelines in place, there is a risk of inappropriate or irrelevant content being posted on the discussion platform. This can hinder productive and respectful communication among students and detract from the overall learning experience.
- Difficulty in finding relevant discussions: As the number of discussions and posts grows, it may become challenging for students to find the information they are looking for. Without proper categorization,

search functionality, and user-friendly navigation options, students may struggle to locate and engage with the discussions most relevant to their needs.

System Features and Requirements

1. Functional Requirements

- a. Home page
 - i. Display relevant information about CTU-Buddy and its key features.
 - ii. Use images, videos, and animations to create an engaging interface.
 - iii. Provide convenient navigation options through a footer on all pages
- b. Timetable page
 - i. Design an aesthetically pleasing and user-friendly timetable using HTML tables and CSS.
 - ii. Display the date, time, modules, and days of the week for easy access to weekly schedules.
 - iii. Ensure responsive design for seamless functionality across different devices.
- c. About Us page
 - i. Provide information about CTU-Buddy's purpose, vision, and mission.
 - ii. Introduce the team members involved in the development of CTU-Buddy.
 - iii. Foster a sense of connection and trust between users and the platform.
- d. Contact Us page
 - i. Include a contact form for users to submit inquiries, suggestions, or feedback.
 - ii. Integrate a map showcasing the location of the CTU campus for visual reference.
- e. Share resources page
 - i. Enable students to upload and share educational resources in PDF format.
 - ii. Implement secure and user-friendly features for resource uploading, categorization, and search functionality.
 - iii. Allow users to navigate through resources and download them for offline access.
- f. Discussion page
 - i. Create an interactive platform for collaborative learning.
 - ii. Enable users to post questions and receive responses from peers.
 - iii. Incorporate threaded discussions, user profiles, and moderation tools for a productive and respectful learning community.
- g. Testing and debugging
 - i. Conduct thorough testing to identify and address any issues.
 - ii. Refine visual elements and functionalities based on feedback and testing results.
- h. Organization and documentation
 - i. Organize project files and documentation into a comprehensive folder structure.
 - ii. Include website files, a document listing project team members, and an SRS document.
 - iii. Compress the folder using an appropriate compression tool for submission.

2. System Features

1. Interactive Timetable:
 - Enable users to input their class schedule and view it in a visually appealing and easy-to-read format.
 - Allow users to add, edit, or delete events and classes in their timetable.
 - Provide reminders and notifications for upcoming classes and events.
2. Discussion Forum:
 - Create a platform where users can participate in discussions related to their studies.
 - Allow users to create new discussion threads, reply to existing threads, and engage in threaded discussions.
 - Implement features like upvoting, tagging, and moderation to enhance the quality of discussions.
3. Resource Sharing:
 - Enable users to upload, share, and download educational resources in PDF format.

- Provide categories and tags to organize and filter resources effectively.
 - Implement a search functionality to easily find specific resources.
4. About Us and Contact Information:
- Provide information about CTU-Buddy, its purpose, and the development team on the About Us page.
 - Include a contact form and contact information for users to reach out with inquiries, feedback, or support requests.

3. Project Planning

Phase 1: Planning and static website

Phase 2: a fully interactive website

Phase 3: the finished website that is fully interactive with documentation

4. Technologie used

Website development: HTML, CSS, JavaScript: these languages will be used to create the visual interface and user interactions on the website.

Conclusion

In conclusion, the development of CTU-Buddy is aimed at creating an educational system that enhances the learning experience for students at City Technical University. By incorporating features such as an appealing Home page, user-friendly Timetable, informative About Us and Contact Us pages, resource-sharing capabilities, and an interactive Discussion platform, CTU-Buddy will provide students with a comprehensive and interactive website. Thorough testing and debugging will ensure a seamless user experience, and all project files and documentation will be organized into a comprehensive folder structure for submission. Once completed, CTU-Buddy will revolutionize the educational experience at CTU, providing students with a user-friendly platform to manage their timetables, engage in discussions, share resources, and connect with peers and educators effectively.