E-ACADEASE: ETEEAP ACADEMIC PROGRESS MONITORING SYSTEM WITH CHATBOT

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INTRODUCTION

The study was proposed to develop solutions that simplify and enhance monitoring systems. The system includes the development of a web-based tracking and monitoring system for the ETEEAP program at the Technological University of the Philippines-Manila. The study does not go into the details of the detailed financial procedures linked with the ETeeAP program. The development of the system will be of great benefit to the ET EEAP department at the TUP-M and its beneficiaries. It will also improve the overall effectiveness, transparency, and functionality of learning management. The chatbot was developed by the Technological University of the Philippines, Manila (TUPM) The system is intended exclusively for the Director of the ETEEAP department. Any user can use the chatbot as long as they can open the web application. Python, HTML, CSS and JavaScript were all used in the development of the system. The system's improved functionality creates a more favorable and conducive learning environment for both ETEEap students and instructors. It also helps students pursue entering the workforce instead of entering tertiary or finishing it. Students can view enrolled courses and attach essential documents such as payment receipts for verification purposes. The financial difficulties (Zhang, 2020) and other reasons that hinder their entry to universities or maintain studying during education before the implementation have led students to skip tertiary education. of having a college degree is multifaceted and complex They can utilize the system to view enrolled course and attach any essential documents for verification. ofHaving a collegedegree is multifactorly and complex.

METHOD

The Director can view and select the list of instructors and students on the system. The Director can log-in into the website and can select the Students Tab. The instructor can log in into the site and can choose the students tab. The director can forward the credentials to the student so they can login to the system and complete the required forms. The information will then be displayed on the student profile and on pending status. For department Director accessing the Manage Users tab - Adding Student: The Director should click on the Edit viewpoints button beside the System Settings label on the webpage. For Instructors accessing the Instructor?s Student Tab - Returning Requirement: Once the student appears on the list, click the Requirements button. Researchers developed a web-based monitoring system for the students. The system will provide the internet users with access to their students, using their devices to access requirements and status of status. The process and stages involved in the development of the system are presented in this chapter. The researchers used HTML and CSS to develop the user interface of the web application. The ETEEAP department that will assist them with assigning students to the ETEAP department will assist with assigning them with the assigning them to the department. The following are the procedures for the development of a web-based system for the instructor. - use the system primarily to enroll in courses, submit assignments, and view grades. Processes: Admin Login (1.0) - handles the authentication of admin users. Generate User Account Logins (2.0), Manage/Add Subject (5.0, 7.0 and 8.0). Use Chatbot (9.0): Allows all types of users to interact with chatbot to assist with their inquiries. The following are the procedures for the development of a web-based system for the use of chatbot. For the student, the pop-up window will display the details of the selected student on their course. The Director can also assign an instructor to handle the course or subject to be taken by the student System Flow Chart for Student24. For department Director accessing the Director?s Students Tab: For the Instructor, the instructor can view and download the materials and submissions attached. The researchers made sure to acquire essential information and feedback from the end user and maintain communication through the development cycle of the evaluation

system. The system required the following procedures to function: for department Director accessing the Director?s homepage, for department student accessing the Student?S Subject Tab, and for department instructor accessing the Generate Report Tab - Student Report. The researchers will finalize viewpoints and maintenance in this phase ensuring the system? s successful implementation. The following are the procedures for the development of a web-based system for the Chatbot. The construction phase implies the amalgamation of user feedback and requirements. The deployment phase involves the implementation of a functioning system and its delivery to the end user. The tools, techniques, and steps undertaken for the completion of the system are also present in this chapter. The researchers take advantage of rapid prototyping to accommodate changing user preferences that meet the expectations of the user. Browsing the website of the ETEEAP home page displays a Chatbot Icon. The instructors, on the other hand, can check their current enrolled and completed students. The student can attach multiple files in each requirement. Students can edit and save their personal information. Instructors can edit their personal info. Students are able to change their password. Students have the option of changing their email address and password. They can also change their phone number. They have the ability to edit their profile information. They also have the chance to change the profile picture. They are also able to edit the profile and change the password. The student can also attach multiple documents to the profile.

RESULTS

Instructor?s Student Tab - New Instructor. On this page the instructor can view the students enrolled to the account of the instructor Testability 18 (60.00%) 11 (36.67%) 1 (3.33%) Maintainability evaluation results of the system. Usability Evaluation result of system. Reliability Evaluation results of system, which refers to the degree to which the system performs specific functions under given conditions. Fault Tolerance. In this sub-characteristic, 60% of the respondents (18 instances) rated the system as 4 (highly acceptable) The system is not designed to accommodate live meetings, online notebooks, online class setup, or a calendar. It is only intended to be used by the University. The system is rated as 4 (highly acceptable) and 3 (acceptable) by users. The administrator can view the list of instructors and students on the instructor tab. They can then enroll a student, their status on the program, and relevant information per student. The process of enrolling ETEEAP students; starting from inquiry of students, submission of preliminary requirements, and submission of additional documents is not covered by the system. The developed website enables the University Director for ETEEAP to create accounts for students and instructors for the Technological University of the Philippines, Manila. Users can log in with their credentials to access specific features and information relevant to their use. The website also allows the admin to change the current password for the admin. The following images will show the user interface designed for administrators of the system. The user interface that is tailored for student users will be shown in the next section. The site is available for download from the following sites. The ETEEAP system was evaluated by students, instructors, and administrative staff from the Technological University of the Philippines-Manila. Students need to upload or attach requirements for the task posted by the instructors. Instructors can also attach or update requirements per student on this page. The interfaces provide a comprehensive view of the system's functionalities and allow administrators to effectively use and manage the system. The system was rated as acceptable by 33.33% (10 instances) and as 2 (5 instances) by 16.67% (5) The E-AcadEase: ETEEAP Academic Progress Monitoring System was evaluated to determine its effectiveness, usability, and overall quality based

on the ISO/IEC 25010 standard for software product quality. The scale used for the evaluation ranged. from 4 (highly acceptable) to 1 (not acceptable). The website is. accessible for devices with web browsers, but the system does not support mobile devices. The dashboard displays filtered information that can be selected by the administrator. The Chatbot feature of the system enables the instructor to add or edit a requirement about enrolled students. Figure 4 The students and instructors in turn will check and update their newly created accounts. Figure 5 The instructors and students will check to see if their accounts have been updated. Figure 6 The students and professors will check their newlycreated accounts. The students will then check to make sure they have updated their accounts and the instructors will update their accounts. Back to Mail Online home. Back To the page you came from. The Students and Instructors in turn would check andUpdate their newlyCreated Accounts.

DISCUSSION

The E-AcadEase system was created to improve the overall effectiveness, transparency, and functionality of learning management and tracking of payment to teaching services. The system was tested and received high marks in terms of Functional suitability. Recommendations are proposed to enhance the system?s effectiveness, usability, and overall quality. These recommendations will not only improve the system but also cater for different scenarios and users. The web-based system has been built to include the following features: