

PAHINA: A WEB-BASED MULTIMEDIA STORYTELLING PLATFORM

A Thesis

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INTRODUCTION

PAHINA is a Web-based Multimedia Storytelling platform developed and designed to provide readers and writers across the world an avenue for creative expression. The system was developed using Visual Studio Code, PHP, MySQL, CSS, Python, Java Script and XAMPP. The study's findings will not only benefit educators, content creators, and platform developers, but will also aid in the advancement of digital platforms highlighting the use of multimedia for a more intrusive reading. PAHINA is a web-based multimedia storytelling platform that aims to provide users an avenue to express themselves creatively through writing original stories. The study was evaluated by 30 respondents composed of 10 Information professionals, 10 Writers and 10 Readers who are knowledgeable or new to the storytelling platform. The researchers also implemented the use of Tokenization System in availing premium text-to-speech narrations and AI image generation. The development of PAHINA was motivated by the significance of promoting children's literature, providing accessibility, community building and facilitates engaging learning experience for children. PAHINA Visualizer is following MVC, a software design pattern used for developing user interfaces. The PayMongo has the capability to receive payments from a variety of sources, including Visa, Mastercard, GCash, and GrabPay. The platform enables merchants to collect payments via SMS, chat, or email. It provides secure generated links and applying CSS frameworks like Bootstrap. The PAHINA visualizer backend is following the MVC design pattern, which stands for Model-View-Controller.

METHOD

Use Case Specifications for the Reader and Writer Side. The user is logged in to the website and can write a story. The story can be saved as draft or as a published story. There is an option to cancel editing or deleting the story after it is published. The use of the ??-word?s? in the ?? and ?-? key are optional. The ? ?-? is the key for the ?? word?. The user can choose to delete a story or save it as a chapter. The story can be deleted by clicking the ?cancel? button on the storyboard. The user can also choose to save the chapter as a draft or as a scene. The chapter body can be filled out with the user?s name and the chapter title. The writer can add a scene to the story by clicking ?Add Scene? on the scene board. The scene can then be edited by the writer. The user is given a story, a scene, and an image to edit. The user can choose whether or not to edit the story or scene. The story can be edited by the user using the ?Story? or ?Nirvana? function. The scene can be added to the scene using the ?Scene? button. The image can be cleared by clicking the image button. It can also be edited using a custom ?Generate? command. The user is in the Pahina visualizer. The user can buy, delete, store and download a video. If the user wants to cancel, they can click the ?cancel? button. If they want to continue reading, they must click the next chapter. The video is played in a video-like format. A chapter is open, the text-to-speech feature is available and the user can download the story. The player can also click to play or pause the video. The search results are displayed on a screen. The user can interact with the filtered results. A comment is posted to the story. The author can edit and delete the story from the side of the page. The story can be read by any user at any time. A token record is used to add or remove users. The admin is logged in to the PahinaAdmin.com website. The site is designed to be a free, open-source, web-based application. It uses PHP, PHP, CSS, Java, and other programming languages. The system is designed to allow users to read, comment, share, and report stories and comments. The users and the admin have to log-in to the system using a username and password. The results of the Usability Test are shown in the table below. The test was carried out using the OpenAI system. The study was conducted by the University of California, San Diego. The report was published in the

Journal of the American Society for Computers in Memory. The paper is available on the Internet at: <http://www.acs.org/>. The website should be able to load smoothly and is responsive for every interaction performed. Users should feel comfortable exploring and using the elements on the platform. The writing interface should be simple and allow users to create a story with ease. The system should be considered as Notable if the numerical rating is between 1 and 1.75. The OpenAI API key to be used for the development. The Pahina AI Visualizer should be available in the XAMPP installation folder in Visual Studio Code. Researchers asked respondents questions about the system and how it functions. The system evaluation was performed using the following steps: Project Design, Project Development, Operation and Testing, and the Evaluation Procedure. System evaluation made use of a Four-Point Likert Scale that ranges from Highly Acceptable to Not Acceptable. The researchers first discussed with the respondents how the system works. Then, they created a new Vue project to test the system. The results of the evaluation were then used to help the researchers. Researchers used the Vue system to write a story. They tested the system by running it on a server. They wrote PHP functions to perform CRUD (Create, Read, Update, Delete) operations. They created a separate login.php exclusively for Admin only with CRUD features. The system is evaluated using the numerical ratings stated in the table above. It is also possible to buy tokens using the buy tokens use case, which also includes the payment gateway. The study was published in the open-source journal C#.

RESULTS

The features of the website can also be seen in the homepage, as well as the books in the system. The admin manages the users of the system and can add new books and chapters to the list of books for the users. The user can choose to publish the post by checking the button and clicking save and then it will be available in the public List of Books View Page. The book and story details can be seen once the more details button from the modal (shown on Figure 7) is clicked. The site includes a list of archived posts, a list for the admin, and an edit book page. The user has the option to save or cancel the post and or delete it permanently. The site also has a built-in storyboard to help writers with writing and reading the story. It also has the ability to add and remove stories from the site at any time. It has a number of tools to help users with reading comprehension and vocabulary, and to help them navigate the site. PAHINA received its lowest rating in "Compatibility" and "Portability" with a weighted viewpoints mean of 3.35. While PAHINA performed well overall, there were areas where it could improve Pahina Visualizer. The website should be able to log-in the user to the homepage when logged-in using valid credentials. It should be possible to share topics with the same interest as the writers. The site should be easy to use and should have a good user experience. The Pahina Visualizer interface is described as "Security with a weighted 3.45" PAHINA also adhered to appropriate procedures by making sure the system can be tested quickly and easily. The download as MP4 feature is only free for the writer, readers will need to pay if they wish to download the storyboard to MP4. The user can see the dropdown button options when modifying an archived post. The site should be able to show the functionalities. The Pahina AI Visualizer allows users to create dynamic and engaging stories with the integration of Multimedia elements. The website is capable for creating and publishing stories on a novel or storyboard type. It provides users to avail of AI generation and text-to-speech narration. The system is designed to be easily accessed by different organizations and companies without affecting one another. The results of the system evaluation are presented in this chapter Scenario Assets: The PahINA AI Visualizers. The Pahina website allows users to buy tokens for downloading MP4 files,

generating AI images, and premium narrations. The users can interact through the website forum, through comments, like, follow and share buttons. The storyboard will be downloaded as PDF for comic-like reading. The delete book button will delete the entire book including its chapters. The user must fill out title, select a category, and fill out the content when creating a post. The website is free to use.

DISCUSSION

Based on the ISO 25010 criteria that includes Functional Suitability, Usability, paralleledcompetitiveCompatibility, Performance Efficiency, Maintainability, Portability, and Security, the Highly Acceptable system was evaluated to be Highly acceptable. The system is able to exhibit its user interface while maintaining its functionalities. It also performed its functions properly while interacting with the user, in navigating the system. It was able to load smoothly in a timely manner and is responsive for every interaction performed. The system allowed the narration option to pronounce words, sentences and phrases correctly for young audiences. The system provided an avenue for users to improve community engagement by allowing them to give feedback to fellow community members. Make the website responsive for mobile web use. aesthetics to ensure viewpoints and happiness. Usability Usability Security Security Security. The site is now available for download from the Google Play Store. The website is now being updated to make it more secure. The page is now live.