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Daily Journal # 20

05-23-2022

Remaining # of hours: 382 hours

Technical Background/System Turn Over from the Main Programmer to the Remaining Developers

Reflection/Narrative/Tasks for today:

- Created a technical background in the Offboarding Automation System.
- Attended a team meeting for the turnover of the system from the main programmer to the remaining developers since they are going to offboard in the next few days.

OUTPUT

Technical Background

This document contains the project's technical details, such as the type of project to be built and its functionality. It also shows the project's various application development types.

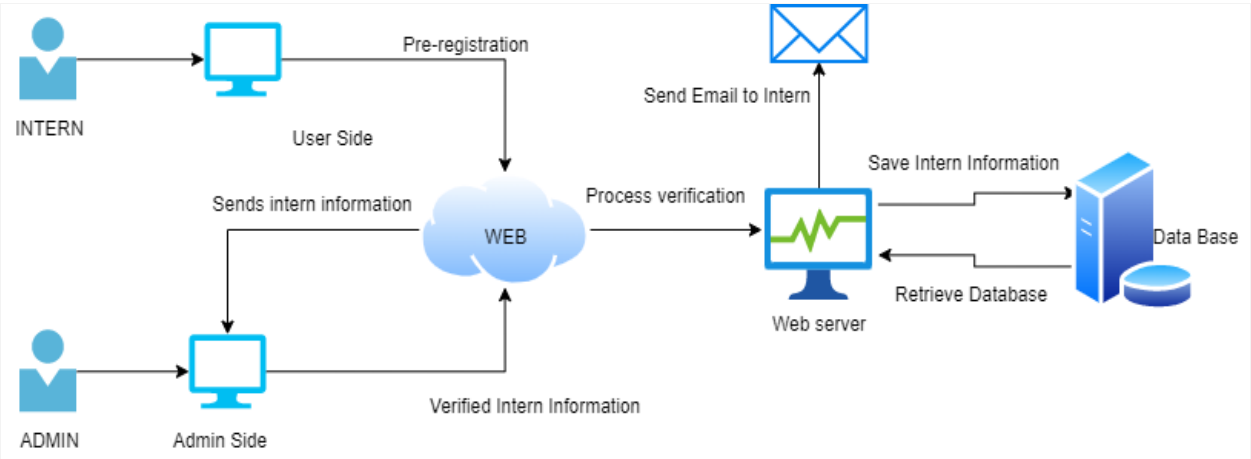


Figure 1. Network Architecture of the Offboarding Automation System

As seen in the model above, the system will utilize the client-server architecture model in which the server hosts, delivers, and manages most of the resources and services to be consumed by the client. This type of architecture has one or more client computers connected to a central server over a network or internet connection. Furthermore, the figure above shows the design of how the Offboarding Automation System will process, store, and retrieve data. In order to access the system over the internet, it needs to have a database, web server, and SMTP (for sending an email).

Technology to be Used

The scope of this section is the discussion on what technologies are being used and how the developers will implement them.

XAMPP (8.0.19 version) – This development tool is a free open-source web server that will allow the developers to run different features like **PHP, MYSQL, AND APACHE** into their website without any access to the internet.

APACHE – this is the most popular HTTP server in the world and is the most used in terms of web server software. The developers will use this feature of XAMPP to create the local server of the website.

MYSQL – the developer will use this feature to create the database of the website. MYSQL is a relational database management system (RDBMS) and is a popular choice for developing the database of a web application.

PHPMYADMIN – this is a free and open-source tool written in PHP intended to handle the administration of MYSQL with the use of a web browser. This will be used to perform MYSQL tasks, like creating a database, running queries, and adding user/admin accounts.

COMPOSER – it is a PHP tool for managing dependencies. It allows you to declare the libraries your project depends on, and it will manage them for you. This tool will allow the developers to install the LARAVEL framework.

LARAVEL – this is a free and open-source PHP framework used for building a wide range of custom web applications. It's an entirely server-side framework that manages data with the help of Model-View-Controller (MVC) design which breaks an application's back-end architecture into logical parts. This software is used by the developers as their main framework for the creation of the project.

VISUAL STUDIO CODE – this is commonly known as VS CODE. This software is a free source code editor made by Microsoft. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git. This software is used by the developers as their main IDE for the Laravel framework.

HTML - This markup language is used for creating pages and design of documents that are displayed on the web browser. For the design and layout of the system.

CSS - allows you to create great-looking websites. It can be used for very basic document text-styling, like changing the color and style of headings and links. It can also be used for animations and to create a layout with the main content area and sidebars.

Bootstrap - It is a powerful front-end framework for faster and easier web development. It includes HTML and CSS-based design templates for creating common user interface components like forms, buttons, navigations, dropdowns, alerts, modals, tabs, accordions, carousels, tooltips, and so on. Bootstrap gives the ability to create flexible and responsive web layouts with much less effort.

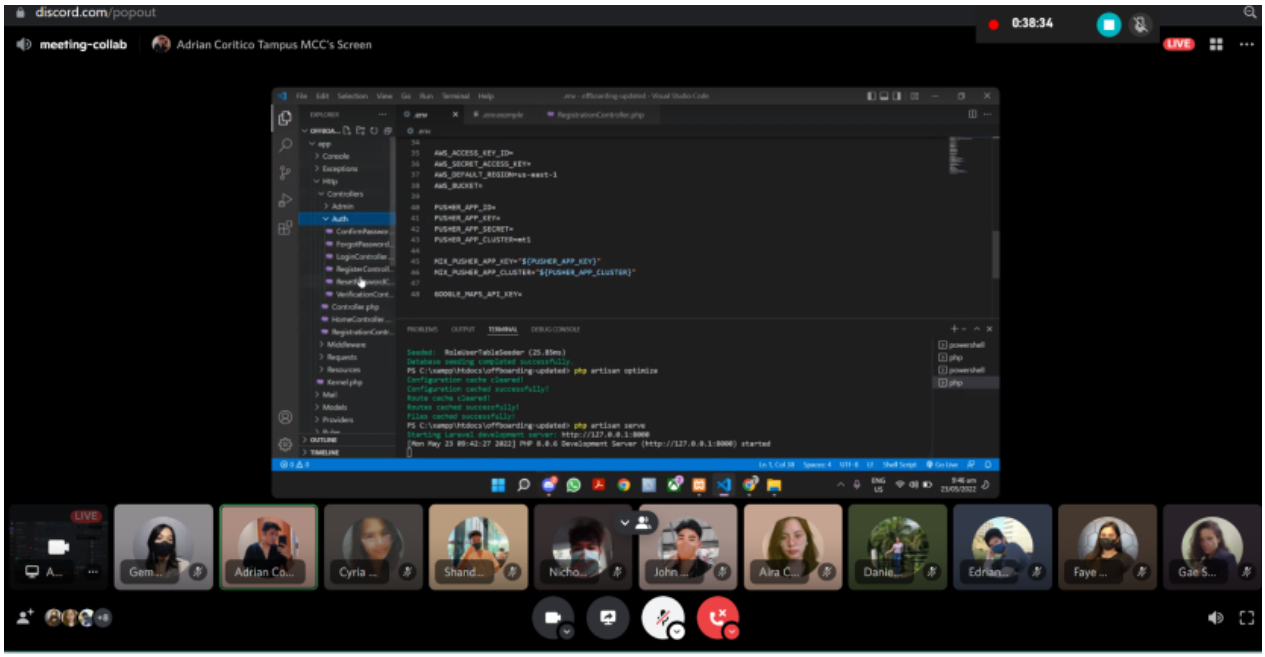
JavaScript – it allows us to add dynamic behavior to the webpage and add special effects to the webpage. On websites, it is mainly used for validation purposes. JavaScript helps us to execute complex actions and also enables the interaction of websites with visitors. Using JavaScript, it is also possible to load the content in a document without reloading the webpage.

PHP – is a server-side scripting language that is used to develop static or dynamic websites. Mostly used for making web servers. It runs on the browser and is also capable of running on the command line. It is platform-independent, meaning there is no specific OS to use. It can run on Windows, Mac, or Linux.

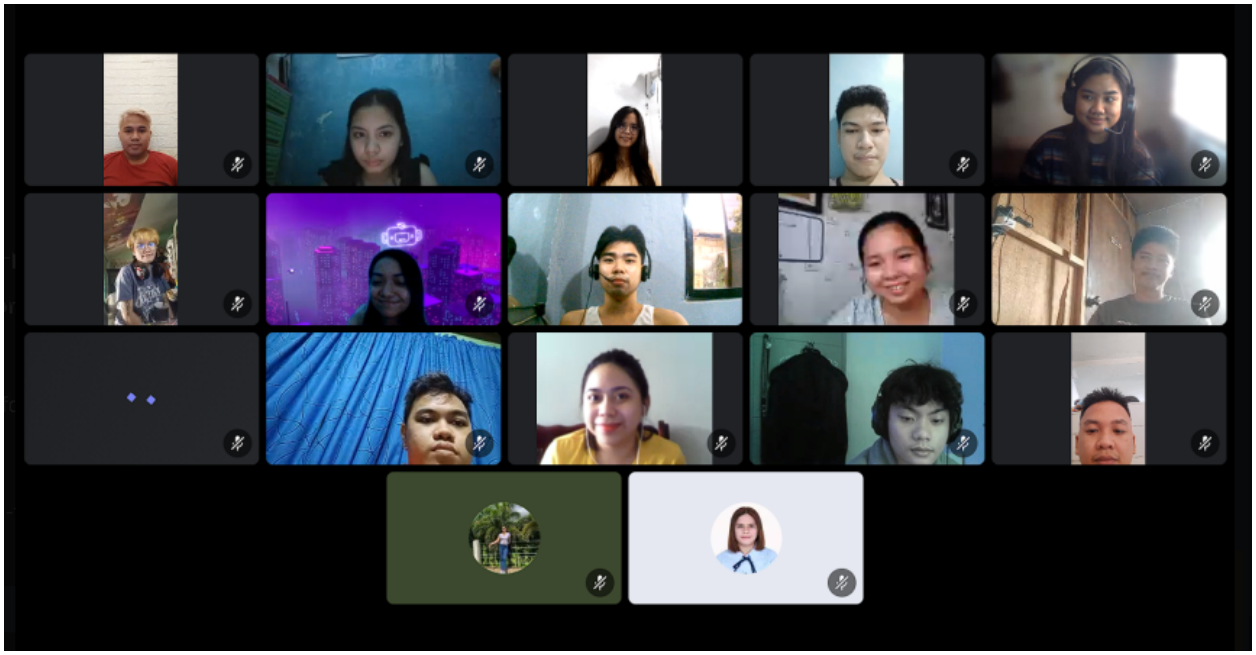
How the Project will Work?

The Offboarding Automation System has the ability to fasten the process of offboarding interns since the only way to verify the intern's offboarding in their current process (traditional process) is through the third-party application which is Discord – an instant messaging social platform.

The system will exclusively deal with the UIP Intern's Offboarding process. Interns can create an account by filling out the registration form. But before proceeding to their dashboard, they will need to wait for the checking and approval of their submitted details including but not limited to their individual google drive link, and application ID. On the other side, the admin can approve – when the intern meets all the requirements needed or decline – when the intern lacks requirements. Declined interns will receive an email, notifying the reason/s why they are not accepted. Hence, approved interns will proceed to the 3-step final offboarding process. All of the necessary information including the intern's personal data, work agreement, and the offboarding checklist form is included in Step 1 wherein the intern should fill out. Once done, the admin needs to change the status of the intern to "pending" so they will be notified of their current status. Step 2 allows interns to download their softcopy of COC or Certificate of Completion so that the admin can change their status and proceed to the next step. Step 3 requires the intern to upload a 2-minute video of themselves answering the feedback interview questions provided by MCC.



Screenshot during the meeting.



Screenshot after the discussion.