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**COMP1640 Individual Report**

# **INTRODUCTION**

Initially, our goal was to work effectively and optimally based on a certain model and the model we are approaching is the SCRUM model. In this model, there are certain roles that are divided and undertake certain tasks during the project construction process. The system we are building is a system for collecting contributions from students in a large university. These contributions are collected each year. In this system many users can interact and perform some actions in their scale. The name of this system we named is UNIVERSITY COMP1640, this system is designed and developed by our team members. This system is divided into small parts corresponding to certain tasks in accordance with the roles of members in the project design and development process. The roles of my team members include: Developer, Database designer, Tester, Information architect, Web designer, Scrum master. My team has applied the Scrum model perfectly and made optimal use of it to exploit the maximum value it brings and achieve quality and efficiency in the most optimal way. We carefully record weekly notes, and we also hold meetings to shape and monitor progress. Regarding the report, the report includes main components such as a brief or brief description of the deployed system in addition to screenshots to demonstrate. We will also evaluate the final product to see if it fully meets the original requirements. Future directions or possibilities for development and expansion are also considered and evaluated by us. Evaluating the level of contribution of project members is also supported by Excel tables and the product presentation will be in the final section.

A group of children sitting on the grass

Description automatically generated

Figure 1 Home Page

A screenshot of a login page

Description automatically generated

Figure 2 Login Page

# **EVALUATION**

## **THE PRODUCT**

Our product is made with the intention of combining every student's contribution from every department. Within the boundaries of each role's authority, we divide the system into numerous roles, each of which has specific tasks. Every accepted student contribution will be posted online for public viewing. Since these are crucial components of the request, we implemented the primary features, including the ability to upload contributions as files, high-quality images, and downloads in advance. To ensure a smooth construction process, we expanded upon the Scrum model. Project construction is made simple by our operating method. We decided to build the project using the MVC ASP.NET core model framework in C# since we knew it would be a good fit for the project's size and broad user base, as well as every team member's skill set. Extended functionalities like a dashboard and post-finalization are implemented.

**Benefits of the developed system**

* **Usability**

Selecting the system's color is one of the most essential and significant tasks because color contributes to a user-friendly interface on websites and is a significant aesthetic factor in America. After conducting research, our team determined that orange, when paired with blue and white, is the primary color that will make the website more vibrant and appealing, encouraging users to interact more and preventing boredom or inconvenience for those who have color vision impairments. We also decided to use this color scheme consistently across all project pages.

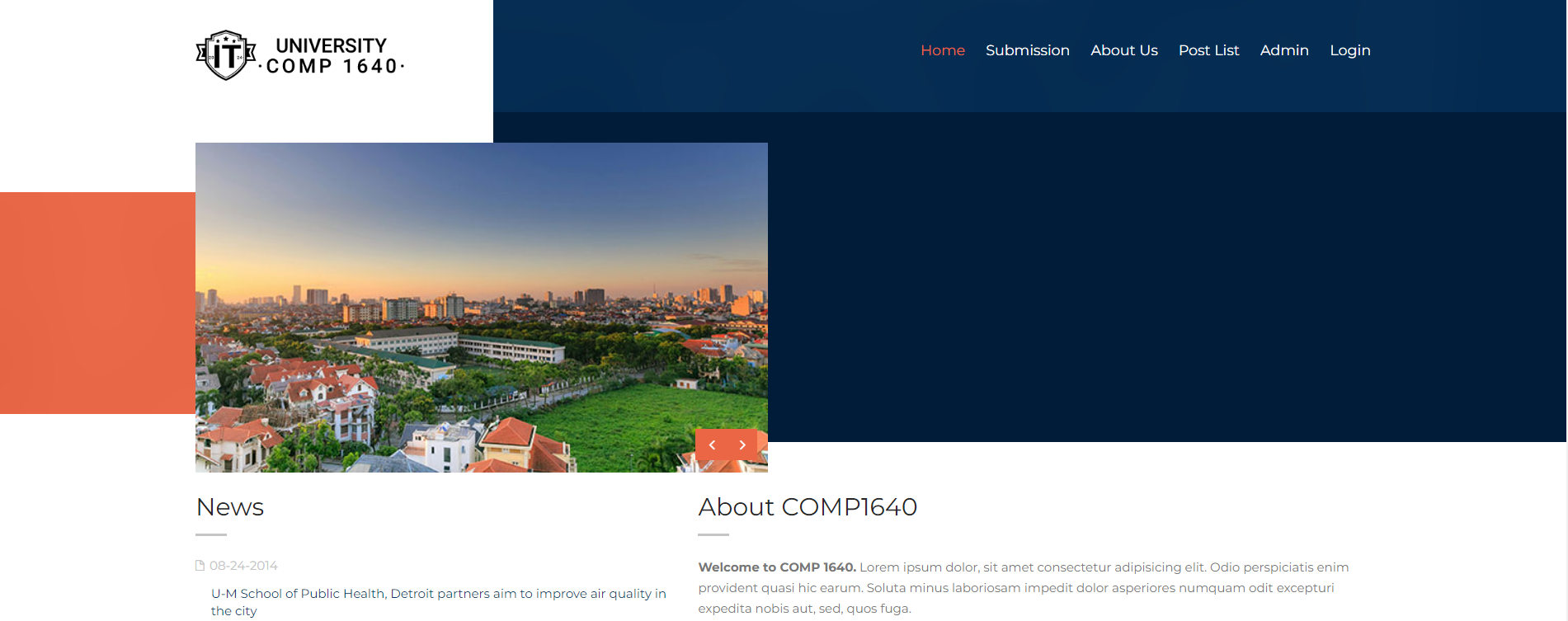


Figure 3 Dark blue, Orange and White coloer for out website.

We have made navigation buttons so that users can quickly navigate between pages, even if they accidentally click on a link that does not correspond with their expectations. This is essential because it makes it easier for users to navigate the website and avoid getting lost.

A screenshot of a computer

Description automatically generated

Figure 4 Navigation of webstie.

The person in the coordinator role has access to all student contributions and can comment on them or grant permission to publish the article online for public consumption. Here, we've included a search function to look for contributed articles for management convenience. Through the download feature we've set up on each contribution, they can download it to view more information about the student's work that they're interested in seeing.

A screenshot of a computer

Description automatically generated

Figure 5 List submission.

In terms of platform and device compatibility, we have created a website that works with a wide range of modern devices. We can quickly integrate our website system with other platforms, like tablets, desktops, and various phone models. Because of this feature, users can effortlessly access it across multiple platforms and use it in a variety of environments without being restricted to one.

A screenshot of a computer

Description automatically generated

Figure 6 Homepage layout on Laptop.

A screenshot of a cellphone

Description automatically generated

Figure 7 Homepage on IP14 Promax

* **Security and Privacy**

We have also been thorough and cautious in this section because security and privacy concerns are always a significant component of any project. To stop actors from committing certain crimes, our system has been made more secure. Our database has been updated, and the data is stored with many common security features, like the MD5 hash feature that we use to encrypt the password for every database account.

A screenshot of a computer

Description automatically generated

Figure 8 MD5 hash in database.

### **What else could be done**

Chúng tôi cũng đã xem xét các tính năng nên được thực hiện trong tương lai và cũng đã có một vài ý tưởng.

## **THE PROCESS**

We implemented and expanded upon the scrum model after recognizing its exceptional benefits for the project. It saves us a great deal of money and is crucial for monitoring the status of project completion. To ensure that the final product is as complete as possible, we take notes on related tasks and progress each week. We have an initial meeting to determine all user requirements prior to beginning the project, and we then begin working on the tasks that have been assigned based on those requirements. Our team divides the assignment based on the individual strengths of each member. This is crucial because, based on each person's unique set of skills, the role that best fits them will facilitate the project's smooth operation without interfering with other participants or delaying its progress. We frequently hold one or two meetings during the project development process so that participants can report on progress or talk about system features. Weekly meeting minutes, including the agenda and start and end times, are meticulously documented as well. The group has decided on the best sequence for constructing features so that creating a website can be done quickly and simply. We've had a really productive and engaged group. Every team member gives it their all and completes tasks with consideration and care.

## **THE TEAM**

### **Team Evaluation**

A screenshot of a graph

Description automatically generated

A white and black text

Description automatically generated with medium confidence

A graph of different colored lines

Description automatically generated

### **Team Justification**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Factor** | **Average**  **Rating** | **Comments** |
| Khoa | Attendance:9Timekeeping:10Initiative:**9** Communication:**9** Collaboration:**10** Focus:**9** Commitment:**9** | **9.3** | Although he missed a couple of classes, he showed up to all group meetings. Along with being incredibly enthusiastic, he works and communicates with team members effectively. He consistently completes tasks precisely as the team requests and on time. He created a flawless database. |
| Thuc | Attendance:9Timekeeping:**9** Initiative:**9** Communication:**8** Collaboration:**10** Focus:**9** Commitment:**9** | **9.0** | He was absent from a few class sessions, but he attended nearly all of the group's discussion meetings. He assists in allocating tasks in a thorough and suitable manner, and he collaborates and interacts with teammates with great efficiency. He finished the task he was given very fast and precisely. |
| Dat | Attendance:**10** Timekeeping:**9** Initiative:**10** Communication:**9** Collaboration:**10** Focus:**10** Commitment:**9** | **9.6** | Team members greatly value his initiative and well-timed suggestions. Additionally, communication works well. He finished his work on schedule as well. He created a vibrant and stunning user interface for a website. |
| Tran | Attendance:**10** Timekeeping:**9** Initiative:**9** Communication:**8** Collaboration:**10** Focus:**9** Commitment:**9** | **9.1** | She communicates effectively with team members and gives her all during meetings. Apart from that, the Dashboards are the majority of her work, which she does expertly. |
| **Kda (Author)** | Attendance:9Timekeeping:**9** Initiative:**9** Communication:**8** Collaboration:**10** Focus:**9** Commitment:**9** | **9.0** | He attends all team meetings in full and turns in assigned work on time. As a tester, he found a few bugs and swiftly fixed them. Additionally, group communication becomes simple but remains largely passive. |

## **SELF-EVALUATION**

When building a project, each participant contributes in a different way. Also, I make a significant contribution. Because I can identify issues quickly, my teammates selected me to be a developer and tester. It keeps up with the team's overall progress and prevents errors that arise in the project but are invisible, which makes it essential to the smooth operation of my project.

I began developing the coordinator role based on the original requirements and was given the responsibility of handling all of its related tasks. I also contributed fully to all team meetings, helping to clarify the team's direction through discussion and necessary contributions. I discussed the idea with the team before beginning to develop the coordinator role's features to make sure it was clear and consistent and to prevent things from going wrong or needless mistakes.

In general, I discovered that I could learn a great deal of fascinating things from this project. My ability to collaborate with others has also greatly improved. Despite the fact that I am not a leader, I have picked up that trait from my teammates. When I actively manage my time and finish tasks assigned to me on schedule and accurately in accordance with group expectations, I also take on more personal responsibility. In addition, I became aware of some of my own shortcomings, such as my tendency to communicate in a passive manner. I promise to work on this in the near future.

# **CONCLUSION**