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**UNIVERSITY OF GREENWICH**  
1640 – Enterprise Web Software Development

Assessment name

|  |  |
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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

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Figure 1 Home Page

A screenshot of a login page

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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**

The importance of the UI as part of an application makes it extremely important that software developers know how to design a UI *(Ruiz, Serral and Snoeck, 2021)*. Recognizing the importance of UI, we have designed the UI meticulously and appropriately.

* **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.

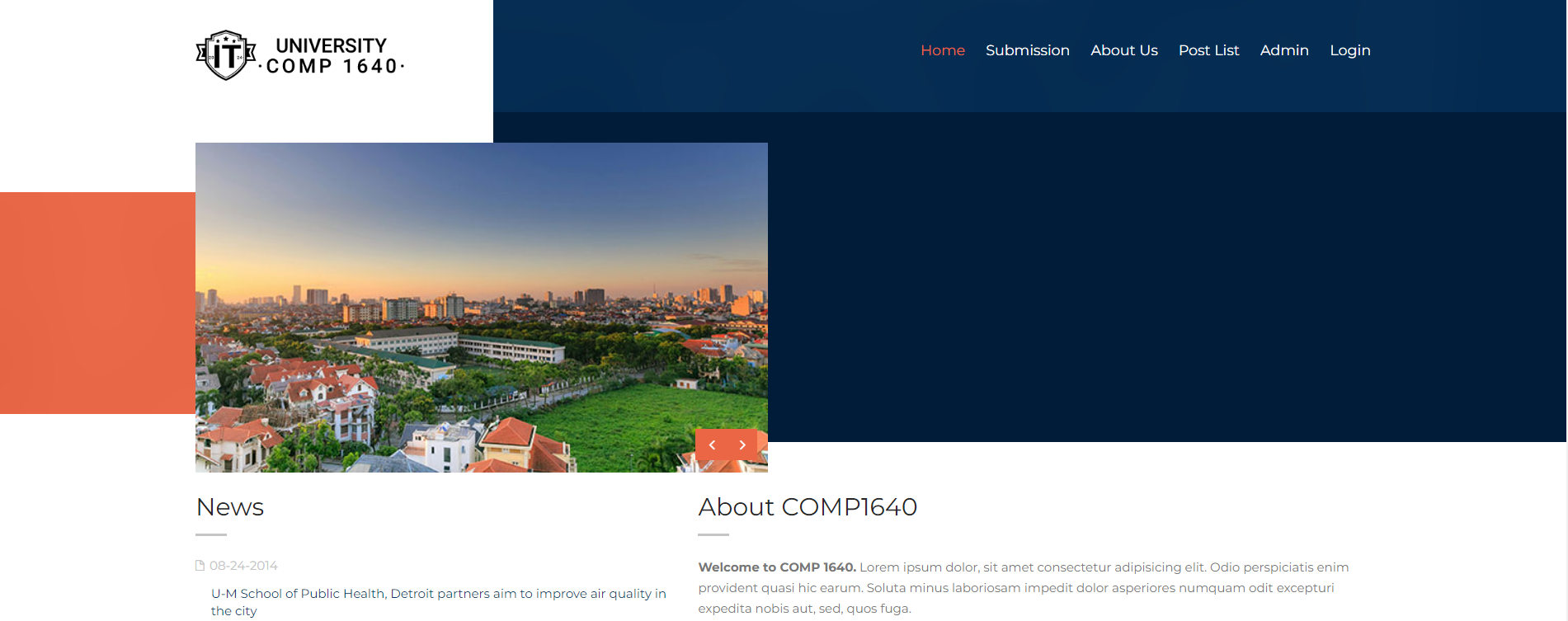


Figure 3 Dark blue, Orange and White coloer for out website.

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

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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

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Figure 5 List submission.

In terms of platform and device compatibility, we have created a website that works with a wide range of modern dev4ices. 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

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Figure 6 Homepage layout on Laptop.

A screenshot of a cellphone

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Figure 7 Homepage on IP14 Promax

* **Security and Privacy**

We have also been thorough and cautious in this section as security and privacy concerns are always an important component of any project. To deter certain criminals, our system has been made more secure. Our databases are updated and data is stored with many common security features, such as the one we use to encrypt passwords for every database account.

A screenshot of a computer

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Figure 8 Encryption in the database.

## **Evaluation for user interface design via AHP**

* **Flexibility and efficiency of use: Rating (5)**

Offer accelerators such as touch gestures and keyboard shortcuts. Customize functionality and content for each user to offer personalization. Permit customization so that customers can choose the features they want the product to have. (Benaida, 2023)

* **Visibility of system status: Rating (5)**

Inform users of the system's current status in a straightforward manner. Users should not be left in the dark about any action that may have an impact on them. (Benaida, 2023)

* **Consistency and standards: Rating (5)**

Maintaining both internal and external consistency will increase learnability. (Benaida, 2023)

* **User control and freedom: Rating (5)**

Provide a simple option to end the current conversation, such as a Cancel button. Ensure that the exit is easily identifiable and has a clear label. (Benaida, 2023)

* **Match between system and the real world: Rating (5)**

Make sure people can get the meaning without having to search up the definition of a word. Never presume that your users will understand terms or concepts the same way you do. (Benaida, 2023)

*Rating Scale: 1 = Poor, 2 = Fair, 3 = Good, 4 = Very Good, 5 = Excellent*

## **What else could be done**

Looking from an overall perspective, I can say that our product has been well completed and meets all user needs or requirements. In other words, these are features we'd like to add in the future, and if we had more time, we'd continue working on them. Initially, our goal was to establish a communication-friendly environment where all roles could share courses or other relevant information easily. Optimize the interface by using more JavaScript to make the website much more vivid and colorful. We will also consider implementing the contribution sharing function on social networking platforms in the future as it will be very helpful for promotion. In addition to looking more user-friendly, this also simplifies management. On the security front, I hope to enhance database security in the future by implementing SQL Insert attack prevention, ensuring the system is as secure as possible.

## **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**

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### **Team Justification**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Factor** | **Average**  **Rating** | **Comments** |
| Khoa | Attendance:9Timekeeping:10Initiative:**9** Communication:**9** Collaboration:**10** Focus:**9** Commitment:**9** | **9.3** | Even though he missed a few classes, he was still present in all group meetings. Besides being extremely enthusiastic, he is also very efficient. He always completes tasks exactly as the team requests and on time. He has the best programming skills in my team. He also created a perfect database, exactly as required. However, he also has some communication issues that need to be improved because it sometimes causes a bit of confusion for the team members. |
| 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 appreciated his initiative and timely suggestions. In addition, communication works well and fully participates in team meetings. He also completed the work on schedule. He created a vibrant and impressive 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 best in meetings. When assigned work to her, each team member has absolute trust because she always completes the assigned work excellently. Additionally, the Dashboard is the bulk of her work and she does it professionally. The team members were all very satisfied with the products she created. |
| **Kda (Author)** | Attendance:9Timekeeping:**9** Initiative:**9** Communication:**8** Collaboration:**10** Focus:**9** Commitment:**9** | **9.0** | He attends all team meetings and completes assigned work on time. During the project construction process, he also made great efforts to complete everything assigned as soon as possible. As a tester, he found some bugs and quickly fixed them. In addition, when it comes to communication during meetings, he communicates with group members easily but is sometimes a bit passive. |

## **SELF-EVALUATION**

When building a project, each participant contributes in a different way. In addition, I also made a significant contribution. Because I could identify problems quickly, my teammates chose me as a developer and tester. It keeps up with the overall progress of the team and prevents invisible project errors, which is essential for the smooth running of my project. Besides, I also take on the position of Developer and fully implement everything assigned on time and according to user requirements.

I began developing the coordinator role based on initial requirements and was given responsibility for handling all related tasks. I also contribute 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 starting to develop the features of the coordinator role to ensure it was clear and consistent, and to prevent any mistakes or unnecessary errors. I also carefully execute test cases so that everything in the project is as complete as possible. When I encounter anything that is wrong with the original request, I immediately note it down and bring it into the meeting between members to find a solution. For small errors, I fix them directly to save time.

Overall, I found out that I can learn a lot of interesting things from this project. My ability to collaborate with others has also improved a lot. Even though I'm not actually a leader, I learned that trait from my teammates. When I proactively manage my time and complete assigned tasks on schedule and accurately according to team expectations, I also take on more personal responsibilities. In addition, I am aware of some of my own shortcomings, such as my tendency to communicate passively. Sometimes I also handle some tasks that do not meet user requirements, but promptly recognizing and correcting them, although not a serious mistake, still makes me lose a lot of time. This will definitely be fixed in the near future.

# **CONCLUSION**

This report provides a thorough summary of our team's project implementation process. We carefully lay out the exact specifications for the created products. By utilizing the Scrum framework, we have been able to maximize the intrinsic value of our efforts and cultivate a culture of increased team productivity. Furthermore, we guarantee thorough and explicit feature explanations in addition to offering precise guidance for further development. In order to evaluate individual contributions efficiently, each member of the team independently gives themselves a score that represents their commitment to and contribution to the group's goals. We use Excel to streamline this evaluation process and make it easier to review. The report then dives into the portion devoted to reflection and self-analysis. Every aspect of the project and the team members' combined efforts are carefully evaluated through assessment, guaranteeing a clear awareness of the areas that have been accomplished and those that still require development.

# References

Benaida, M., 2023. Developing and extending usability heuristics evaluation for user interface design via AHP. *Soft Computing,* 27(5), pp. 1-17.

**APPENDIX**

A screenshot of a website

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Figure 9 Home Page

A screenshot of a computer

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Figure 10 Profile and update photo for profile.

A screenshot of a computer

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Figure 11 Create Comment for Student

A screenshot of a computer

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Figure 12 Form Create Submission

A screenshot of a computer

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Figure 13 Post List

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Figure 14 Dashboard.