

**Individual Report**

COMP1640 - Enterprise Web Software Development

**Subject Code:** COMP1640

**Subject Title:** Enterprise Web Software Development

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# Group Information

Table 1 - Project Information

|  |  |
| --- | --- |
| Team Name | *Team Name* |
| Group Repository | *https://github.com/paikax/WebEnterprise.git* |
| Group Board URL | *https://dennisofcetus98.atlassian.net/jira/software/projects/WEP/boards/2* |
| Deployment URL | *Because of the limit time my team unable to deploy the web yet, instead we just used localhost for the demo* |
| Front End Tech | *MVC, Bootstrap, HTML, CSS* |
| Back End Tech | *.NET Core* |
| Database Tech | *SQL Server* |
| Screen Cast URL | *https://youtu.be/-dSOXoDfxH8* |

Table 2 - Team Information

|  |  |  |
| --- | --- | --- |
| Full Name | Role | Description |
| Mai Dinh Phong | Developer | As part of this work, he focuses on developing, particularly the code base for the website. |
| Phan Minh Tien | Scrum Master | He is the scrum master, who plans for the team to work on time and assigns tasks to each member of the team. |
| Le Minh Duc | Developer | He is a developer member who will code the most essential features of the project. |
| Phan Anh Ly Ly | Developer | As part of this employment, he mostly codes on the front end to improve the website's user interface. |
| Tran Duc Linh | Product Owner | He focuses on the tracking team process to analyze team member work, and from there he may communicate with the scrum master about what to alter at each scrum meeting. |
| Than Le Trong Khanh | Developer | He is a developer that focuses on developing test cases and reviewing the web app once we complete a feature. |
| Nguyen Trong Hoang Anh | Developer | Test the quality, He is also a developer member who focuses on testing all the app's test cases. |

**Description roles of each member:**

Mai Dinh Phong, as a developer, He oversees developing the project's technical features. This comprises developing code, creating software architecture, debugging, and verifying that the program fits the specifications. This member works together with other developers and Scrum Master to guarantee feature delivery on schedule and fix any technical issues that emerge throughout the development process.  
  
Tran Duc Linh, the Product Owner, acts as a bridge between the development team and stakeholders. Their major role is to identify and prioritize the product backlog's features based on stakeholder demands and project vision. He collaborates closely with the development team to discuss requirements, offer input on deliveries, and ensure that the final product satisfies the needs of stakeholders.

Le Minh Duc, his role is developer. He contributes to the project's development and execution, utilizing his technical knowledge to bring the project requirements to reality. His tasks include developing clean, efficient code, thoroughly testing it, and working with other team members to effortlessly integrate diverse components.

Phan Minh Tien takes on the vital job of Scrum Master, acting as a facilitator for our Agile development process. Tien oversees ensuring Agile principles and practices are followed, He uses Jira to break task for each member to let we know what’s part we should do, enabling sprint planning, daily stand-ups, and retrospectives, and removing any barriers to the team's development. His leadership and advice contribute to a collaborative and productive work atmosphere.

Phan Anh Ly Ly, he focuses mostly on development activities. He uses his technical abilities and knowledge to code, debug, and implement user interface features in accordance with the project requirements to make the UI look more friendly. He works together with other developers and adheres to industry best practices to maintain the codebase's quality and integrity.

Thanh Le Trong Khanh, a developer with a focus on testing, is crucial to guaranteeing the quality and stability of our commercial web applications. Khanh's major role is to create and implement extensive testing methodologies to find and resolve any bugs, problems, or performance issues in the product. He works closely with the development team to understand the project's requirements and create test cases that span a variety of uses and scenarios.

Similarly, Nguyen Trong Hoang Anh, a developer in our project team, specializes in testing. His major goal is to ensure the software's quality and dependability through rigorous testing procedures. He works closely with the development team to understand project objectives and create test cases that span a wide range of functionality, performance, and user experience.

# Evaluation of product and process

## Evaluation of Product

1. **Security**

**Pro:**

* When building, we employ the ASP.NET Core framework, specifically Identity code, which was built to hash passwords and accurately define roles for each user.

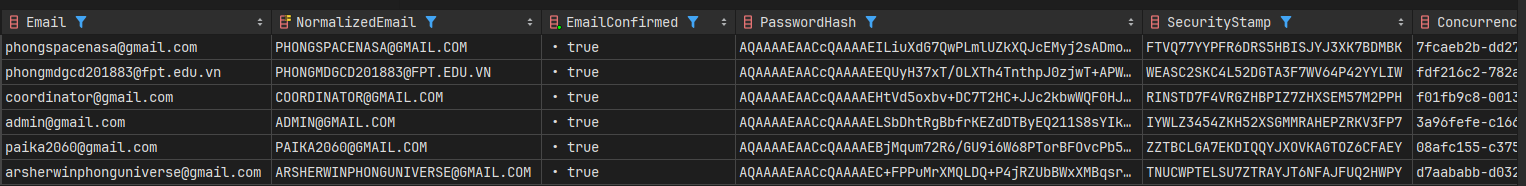


Figure 1 Secure data.

* Email verification service has been implemented on our application too to prevent fake accounts.

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Figure 2 Confirm email.

The email sender capability is particularly impressive, since it smoothly facilitates communication between users and stakeholders. This feature not only simplifies communication, but it also increases user involvement and pleasure.

**Cons:**

* Email verification service may be the reason for the login difficulty. If a user forgets their password or fails to validate their email, they will be unable to log in, reducing the user experience.
* Using identity scaffolding in coding for security may cause errors in entire development if our team is not familiar with this type of code.

1. **User Interface (UI)**

**Pro:**

* On the University marketing manager, we split the table and showed a brief explanation of each contribution to provide the manager with an overview of a specific magazine.

**A screenshot of a website

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Figure 3 Manager view student approved contributions.

* The website's distinguishing characteristic is its seamless functioning, which is defined by smooth functionality and reactivity. Users may easily use the UI, which is precisely developed to optimize user experience.

A screenshot of a user management

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Figure 4 The convenient filter of each role.

Its intuitive design promotes usability, allowing users to engage with the site easily. Furthermore, we painstakingly followed project specifications, guaranteeing that the website not only meets, but surpasses expectations.

**Cons:**

* Because of time constraints, we are unable to search for users by name or role, making it more difficult for administrators to manage users.
* Setting time interface is not easy on the eyes since it displays both date and time at the same time; in reality, it should display the date for user choosing first before displaying the time.

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Figure 5 Set start and closure date for submission.

**C) Student post**

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Figure 6 Student's contribution post page

**Pro:**

* The user interface is straightforward and easy to browse.
* All input titles meet web standards. Smooth UI interactions and function calls.

**Cons:**

* The website does not allow you to see Word files before uploading them; instead, you must first preview them in system files.

**Future improvements:**

**D) Download feature**

**Pro:**

* Simple and fast download icon for downloading contribution for each contribution help manager can easily download selected contribution magazines.
* File downloaded will be compressed to zip file for convenient to storage and transfer to device.

**A screenshot of a file download

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**A screenshot of a computer

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Figure 7 File downloading.

**Cons:**

* Because of time and knowledge, we were able to develop the feature for downloading all contributions at the same time.
* Profile icon and contact to admin page, on sprint planning we focus on develop essential features first and we are simply the web, because of that we can not expand the website in the short time.

1. **Further improvements**

**Enhanced File Management:** Add the ability to download all files at once as a compressed zip archive, simplifying the process and increasing user comfort.   
  
**Responsive Layout:** Use a responsive design strategy to guarantee that your website adapts fluidly to different screen sizes and devices, improving user experience across platforms.   
  
**Single Page Application Integration:** Use contemporary web development frameworks to convert the website into a single page application, resulting in a smoother and more engaging surfing experience without page reloads.   
  
**Chat Functionality:** Add a chat box feature to allow users to communicate in real time, encouraging cooperation and involvement within the website community.

**Profile Page Enhancement:** Redesign the profile page to provide a more complete and visually appealing user profile experience, allowing users to tailor their online presence and successfully exhibit their individuality.

**Preview word files on website:** Implement a feature that allows users to preview Word files directly on the website before uploading them. Improve the file preview functionality for a better user experience.

## Evaluation of Process

Evaluative on the Scrum process in the project

 A group of people sitting at a table with a computer

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Figure 8 Daily meeting.

The image above shows our team's daily meetings, during which we gather to thoroughly evaluate the previous sprint. During these sessions, we analyze our performance by carefully evaluating the advantages and disadvantages of our strategy. Drawing on this data, we collaborate to brainstorm and execute changes for the following sprint, to improve the quality and performance of our work. This cycle allows us to constantly adapt and develop, ensuring that we give the best outcomes with each iteration.

1. **Evaluation of each sprint burndown chart**

**Sprint 1:**

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Figure 9 Sprint 1

During the first sprint, my team encountered challenges with Jira software management. Unfortunately, my team were unfamiliar with setting points, which led to discrepancies in our progress tracking. Despite completing our tasks, the charts displayed inaccurate information throughout the process.

This lack of familiarity with Jira and misalignment in tracking methodologies hindered our ability to effectively gauge our progress and adjust our strategies accordingly. As a result, it became crucial for us to address these issues promptly to ensure smoother sprints in the future.

**Pros:**

* Identified difficulties with Jira management early on, enabling for timely resolution.
* Completing tasks despite tracking anomalies shows team resilience.

**Cons:**

* Lack of expertise with Jira resulted in mistakes in progress tracking.
* Reduced capacity to accurately assess progress and adapt strategy accordingly.

**Future Improvements:**   
  
Provide extensive Jira software training to all team members to ensure they grasp its functionality.   
To avoid conflicts, establish explicit criteria for assigning points and measuring progress.

**Sprint 2:**

**A screen shot of a graph

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Figure 10 Sprint 2

In sprint 2, with the lessons learned from our previous experience, my team implemented a more refined approach to setting points for each assigned task.

Drawing from the insights gained during the challenging first sprint, we developed a clearer understanding of how to allocate points effectively to reflect the effort required for each task.

As a result, our chart began to accurately track the performance of team members, providing a clearer picture of our progress. By leveraging this improved methodology, we were able to ensure that the chart now presented a more precise reflection of our team's efforts and accomplishments throughout the sprint.

**Pros:**

* Based on the lessons learnt from the previous sprint, we adjusted our approach to setting points.
* Clearer knowledge of work allocation resulted in better progress monitoring.

**Cons:**

* Initial issues with Jira in Sprint 1 hampered precise progress monitoring.

**Future Improvements:**   
To maximize progress tracking, approaches should be continuously refined based on continuing feedback.   
Regularly examine and alter point allocation techniques to guarantee accuracy.

**Sprint 3:**

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Figure 11 Sprint 3

During sprint 3, our team developed a better knowledge of each member's individual strengths and weaknesses. This understanding enabled us to modify our strategy by assigning specific tasks to people who excelled in those areas. For example, we noticed Ly's great talents in UI design and development and assigned them assignments pertaining to this element of the project. We wanted to improve our processes' efficiency and effectiveness by strategically assigning tasks depending on proficiency.

**Pros:**

* Effectively assigned work based on individual strengths.
* Increased efficiency and effectiveness by carefully distributing tasks depending on proficiency.

**Cons:**

* Risk of disregarding team members' lesser-known abilities.

**Future Improvements:**   
  
Conduct frequent skill assessments to discover and maximize team members' strength.   
Encourage cross-training to increase the team's adaptability.

**Sprint 4:**

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Figure 12 Sprint 4

After completing the development process in sprint 4, we turned our attention to the essential task of deeper testing the whole website. This phase is critical because it consolidates all individual efforts, providing smooth integration and functioning across the board.

Our main goal during this phase is to thoroughly evaluate every component of the website, looking for mistakes or inconsistencies. We aim to create a completely functional and error-free application by undertaking extensive testing to ensure a faultless user experience.

**Pros:**

* Dedicated focus on thorough testing to ensure a faultless user experience.
* Emphasis on on-time completion and attention to detail contributed to project success.

**Cons:**

* Risk of overlooking minor errors or inconsistencies during testing phase.

**Future Improvement:**

* Implement automated testing procedures to supplement manual testing efforts.
* Establish a multiple testing checklist to ensure comprehensive coverage.

**Timeline:**

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Figure 13 Timeline.

My teammates constantly complete their assignments on time, showing a great sense of responsibility and accountability for their job. The figure above shows that there are no missing tasks, showing each team member's thoroughness and devotion.

This dedication to on-time completion and precise attention to detail greatly contributes to the overall success of our initiatives.

1. **Evaluation of the weekly processing**

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Figure 14 Tasks on creating user account.

This week, our team was assigned the task of creating user accounts for the website for three members. In addition, we also assigned a member to focus completely on thoroughly testing each feature to ensure that it functions properly.

This planned separation of duties allows us to expedite the development process while following a strict quality assurance standard. By spreading duties in this manner, we want to increase efficiency while maintaining the highest levels of functionality and user experience.

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Figure 15 Tasks on Contribution magazine feature.

During this sprint, our team focused on building the contribution magazine feature, which allows students to submit magazines under contributions. However, this initiative offered multiple challenges, notably in terms of time management.

Because the time available for this phase was limited, several team members must work extra hours to fulfill deadlines on this phase. However, we realized the importance of this element in our project and understood that its successful development was necessary for the execution of succeeding developments.

This approach evolved like a chain reaction, with each feature building on the preceding one, emphasizing the interconnectedness of our development efforts.

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Figure 16 Process on development admin feature.

During this week, our team focused on creating critical functionality for the admin interface. Unexpectedly all team members effectively controlled their time, resulting in efficient development throughout.   
Our scrum team meetings went well, allowing for good communication and cooperation. However, despite our best efforts, time restrictions limited our capacity to extend the admin dashboard as originally envisaged. Despite this setback, our team's strict time management and fruitful meetings demonstrated devotion and skill, establishing the groundwork for future attempts.

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Figure 17 Processing on developing faculty feature of the web.

This week, our team had an issue when certain members suffered laptop troubles, resulting in a temporary reduction in our personnel.

Despite the difficulties, only two developers were available to concentrate on the responsibilities at hand. Fortunately, our Scrum Master intervened and extended the time given for finishing the tasks. Despite having fewer personnel available, our team showed perseverance and tenacity, eventually finishing the duties within the amended timeline. This example demonstrates the significance of adaptation and supportive leadership in overcoming unanticipated difficulties and achieving timely project execution.

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Figure 18 Overall testing week.

During this week, our team went through collective testing of the overall performance of our application. This joint effort proved crucial, as it resulted in the detection and prompt resolution of numerous unexpected problems observed during program running. Thanks to the combined experience and devotion of all team members, we were able to detect and resolve these difficulties with exceptional speed and efficiency. This proactive approach not only assured the application's efficient operation but also highlighted the necessity of cooperation and comprehensive testing in providing a high-quality result to our clients.

**Conclusion**

To summarize, our team's journey through the many sprints has been a learning process full of both challenges and successes. From navigating novel platforms like Jira during the first sprint to fine-tuning our approaches for progress monitoring and work allocation in later iterations, each step has provided possibilities for growth and development. We've seen the value of harnessing individual skills, staying focused on quality assurance, and reacting to unexpected challenges with tenacity and perseverance. Moving ahead, we will continue to focus on continual process improvement, excellent time management, and developing a collaborative and adaptable culture. We are prepared to face future projects with even greater success after learning from our mistakes, accepting feedback, and prioritizing both efficiency and quality.

# Evaluation of team

To offer a full assessment of our team's performance, including my own, a variety of variables were reviewed. Each team member has distinct skills and areas for growth, which contribute to the overall dynamics and success of the project.

## Mai Dinh Phong

As a team member, he always endeavors to achieve project deadlines and provide high-quality work. My proactive attitude and rapid task completion help the team's success. However, in other cases, my concentration on speed has resulted in a lack of comprehensive testing, resulting in a rare glitch. To achieve a good result, I must prioritize quality assurance with speed. Recognizing this, I am dedicated to setting aside enough time for testing and improving my process to strike a better balance between efficiency and completeness. By doing so, I want to reduce the number of problems and improve the overall quality of our project deliverables.

## Tran Duc Linh

His work as the Product Owner has been critical in steering the project to success. Despite occasional tardiness, Linh's dedication to understanding stakeholder needs and maintaining alignment with project goals is admirable. His active participation in debates and decision-making processes demonstrates his commitment to the team's aims. Linh's ability to create open communication and cooperation among the team has also been critical in keeping the project on track and efficiently dealing with problems. Moving forward, Linh's effect on team performance will be strengthened by a continuous emphasis on timeliness and committed leadership.

## Phan Minh Tien

His direction with the club has been defined by significant progress and flexibility. Despite initial difficulties with job allocation throughout the project's early phases, Tien has shown excellent progress and a strong dedication to the team's goals. His enthusiastic engagement and timeliness during scrum sessions demonstrate his commitment to encouraging efficient cooperation and communication among team members. Tien's openness to feedback and eagerness to learn from experience demonstrate his growth mentality and commitment to make a meaningful contribution to the success of our project. As time goes on, Tien's efficacy and impact within the team will be bolstered by a continual focus on improving task management abilities and flexibility.

## Le Minh Duc

His persistent devotion and work ethic have been critical to the team's success. Despite difficulties in completely understanding the system's flow, Duc's dedication to work completion and willingness to take on obstacles have been admirable. His proactive attitude and readiness to seek assistance if needed demonstrate his commitment to project success. Furthermore, Duc's collaborative attitude encourages good cooperation and communication among the group. Moving ahead, offering extra guidance and tools to help Duc better grasp project needs will allow him to harness his strengths and contribute more effectively to project objectives.

## Phan Anh Ly Ly

His work in UI design and programming skills have considerably improved the project's overall user experience. His imaginative and ingenious designs have transformed difficult ideas into visually attractive interfaces. However, there is the opportunity for development in code review methods to allow more seamless integration and communication within the team. Increasing attention to detail in code reviews will not only improve delivery quality but will also help to simplify development procedures. Furthermore, Ly Ly's collaborative approach and readiness to assist team members. Moving ahead, Ly Ly's contributions to the project will be enhanced by a continuous emphasis on code review techniques and cooperation.

## Thanh Le Trong Khanh

Despite encountering distant constraints that affect timeliness and early involvement, Thanh Le Trong Khanh's efforts to improve quality assurance through rigorous testing are admirable. His ability to spot problems and anomalies during testing demonstrates his dedication to ensuring

project deliverables are reliable and functioning. Continued efforts to comprehend the project's structure and needs will increase Khanh's effectiveness and contribute to the team's success. Furthermore, proactive communication and collaboration among team members will aid in the removal of distance boundaries and the creation of a more cohesive team atmosphere.

## Nguyen Trong Hoang Anh

His persistent devotion and proactive approach to task execution have been critical in moving the project ahead. While occasional delays in test case preparation may affect project timeframes, Anh's dedication to continual improvement and growth is clear. Strengthening test case preparation and proactive communication with team members will help to simplify project development and assure the timely delivery of high-quality deliverables. Anh's collaborative approach and readiness to help team members make him a valuable part of the team. Moving forward, Anh's contributions to the project's success will be strengthened by a continuous emphasis on proactive communication and cooperation.

Table 3 - Factor table

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FACTOR | WEIGHT | Phan Minh Tien | Tran Duc Linh | Mai Dinh Phong | Le Minh Duc | Phan Anh Ly Ly | Nguyen Trong Hoang Anh | Than Le Trong Khanh |
| Attendance | 6 | 9 | 9 | 10 | 9 | 10 | 9 | 9 |
| Timekeeping | 9 | 10 | 10 | 10 | 10 | 9 | 10 | 9 |
| Initiative | 5 | 10 | 9 | 10 | 9 | 9 | 9 | 10 |
| Communicate | 10 | 10 | 10 | 9 | 10 | 10 | 9 | 9 |
| Quality of work | 6 | 9 | 9 | 9 | 9 | 9 | 10 | 10 |
| Contribution | 2 | 10 | 10 | 9 | 10 | 9 | 10 | 9 |
| Work Attitude | 5 | 9 | 9 | 10 | 9 | 10 | 9 | 10 |
| TOTAL | 43 | 9.57 | 9.42 | 9.57 | 9.42 | 9.42 | 9.42 | 9.42 |

Figure 19 - Factor comparison.

Table 4 - Mark of Overall Team Contribution

|  |  |
| --- | --- |
| PERSON | TOTAL |
| Phan Minh Tien | 9.57 |
| Tran Duc Linh | 9.42 |
| Mai Dinh Phong | 9.57 |
| Le Minh Duc | 9.42 |
| Phan Anh Ly Ly | 9.42 |
| Nguyen Trong Hoang Anh | 9.42 |
| Than Le Trong Khanh | 9.42 |

Figure 20 - Overall Team Contribution

# Self-evaluation

## My contributions

He consistently aids team members in project development during each sprint, ensuring that everyone is on track with feature implementation. He takes the initiative to offer guidance on the proper methodologies and approaches for development, ensuring that tasks are executed accurately and efficiently. Moreover, he takes the responsibility of setting up and elucidating the web-based infrastructure, facilitating a clear understanding for other team members before they delve into the coding process. This proactive approach fosters cohesion and clarity within the team, ultimately contributing to the project's success without drawing undue attention to his own contributions.

Throughout the project, the contributions given have been critical in helping our team achieve its goals. As a devoted team member, He has actively participated in different project aspects, such as coding, design implementation, and issue resolution. The focus has always been on completing assignments on time. In team talks and meetings, a proactive approach was employed, resulting in positive brainstorming sessions in which useful ideas and solutions were exchanged to improve project outcomes. Attached are visual representations that provide concrete evidence of efforts, such as completed tasks, UI designs, and code extracts.

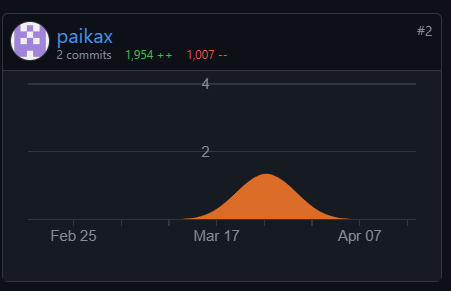


Figure 21 Contributions

The image illustrates the distribution of commits on GitHub throughout the project development lifecycle. This encompasses various contributions, including writing code and resolving conflicts that arise when team members create pull requests to integrate new features. By visualizing the commit history, we gain insights into the collaborative effort and individual contributions driving the progress of the project. This transparent overview underscores the collective commitment and dedication of the team towards achieving our shared goals.

A screenshot of a computer

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Figure 22 Contribution

The above commitments offer comprehensive insights into the contribution of each work, including crucial details like the date, the contributor, the work length, and performance analysis. Through thorough documentation of these particulars, we guarantee accountability and openness throughout the development process. Every commit represents an actual achievement that highlights the team's growth and combined effort. The performance analysis that goes along with these contributions also helps us evaluate and improve our process, which guarantees efficiency in project execution and ongoing development.

A screenshot of a computer

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Figure 23 Merging team commits

He regularly combines pull requests from team members' contributions, as seen in the above graphic, updating the delivery status for the Scrum Master. By following this procedure, you can be confident that each feature is finished on time and added to the project as soon as possible. The Scrum Master will then receive a report for tracking and reporting. The team's clear and methodical approach promotes accountability, easy communication, and effective tracking of project progress throughout its entire lifespan.

## Reflection on my own performance

Upon consideration, He is pleased with his performance and contributions to the project. maintained a strong dedication to providing quality, as seen by member’s constant work ethic and devotion to project deadlines. However, the member recognized the need for improvement in several areas, notably in combining speed with comprehensive testing to reduce the number of defects. In the future, He intend to improve his testing techniques and pay attention to detail to raise the quality of our deliverables even higher. Overall, the member must learn more on project planning thus far and am committed to ongoing progress.

## Lessons learnt

Participating in this project has been a rewarding learning experience, and I have gained useful insights. I have learned to value the critical role of excellent communication and teamwork in a team context. Clear and open communication channels have proved effective in creating a friendly and congenial work atmosphere, increasing productivity and morale. Furthermore, I have recognized the need for thorough testing and attention to detail in assuring the dependability and effectiveness of our software solutions. These teachings serve as guiding principles for my future undertakings, as I attempt to maintain high standards of excellence while also pursuing ongoing growth and development.

**Conclusion:**

In conclusion, my involvement in the project has been defined by devotion, teamwork, and ongoing learning. My contributions as a developer have been extensive, encompassing everything from code and design execution to active involvement in team meetings. While I am proud of my accomplishments and dedication to producing high-quality work, I also appreciate the value of continuous growth. Moving forward, I am motivated to improve my abilities, particularly in testing techniques, to assure the highest dependability and quality in our project deliverables. Furthermore, the lessons I learnt from this experience, such as the importance of good communication and attention to detail, will serve as guiding principles in my future pursuits. Overall, I am glad for the chance to be a part of this project and am committed to maintaining high standards of quality and encouraging collaborative success in all that I do.