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**Comp1640 - Enterprise Web Software Development**

**Coursework Report (Individual)**

**Group 4**

**Name: Le Duc Anh**

**ID: GCH17168**

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| --- | --- | --- |
| **Name** | **Roles** | **Commitment point** |
| **Le Duc Anh** | Design Database | **8** |
| **Nguyen Doan Duy Thanh** | Main Programmer | **10** |
| **Vu Dang Quang** | 2nd Programmer | **8,5** |
| **Nguyen Quoc Tung Linh** | Tester | **8** |
| **Le Dang Thanh** | Design Front-end | **8,5** |
| **Nguyen Trong Dat** | Product owner | **8** |

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# Title Page

**Technologies:** PHP

**Database:** MySQL

**URL of website:** <http://tutoringcoursework.epizy.com/>

**URL of Code:** <https://github.com/ThanhMon99/Code-for-CourseWork.git>

**Usernames/passwords for different roles:**

|  |  |  |
| --- | --- | --- |
| Role | Account | Password |
| Admin | admin | 123 |
| Staff | staff | 123 |
| Tutor | tutor1 | 123 |
| tutor2 | 123 |
| Student | student1 | 123 |
| student2 | 123 |
| student3 | 123 |
| student4 | 123 |
| student5 | 123 |

**Sprint Backlog:** <https://docs.google.com/spreadsheets/d/1sJS98h_Y0tHMRL04yHID9780HyYKeSXG4_6QttvXMZ8/edit#gid=0>

**URL of the screencast:** <https://drive.google.com/drive/folders/11xHT_VfhxBdXB2RYuzba6EvBzIOHXTLr?usp=sharing>

# **1.Introduction**

In this report we will share the phases of our group 4 to implement this project, from the division of work, to conduct and develop the stages of the proposal as well as to analyses and evaluate the activities of the group in the last 2 months. I will evaluate as a design database for the group, in this position, I will assess with an objective and specific perspective in the group's activities and the problems that the group has encountered in distance learning (online) today. In the report below, I will take a quick look at the system the team has perfected in the past 2 months and in more detail about the group activities, each team member and the number of points I think the members achieved. during the past operation of our team.

# **2. Evaluations**

## 2.1 Product Evaluations

Based on the proposed requirements of the project and the criteria and functions that the product we have made is complete as well as meet the needs of the given problem very clearly and in detail. These are the functions that our products have and acquire in this operation:

* The system can allocate students and tutors together intelligently and easily
* The system has a function that allows viewing the profile of students as well as tutors with basic registration information such as name, date of birth and address ...
* We have an additional function to help students study and exchange quickly and conveniently by allowing both parties to exchange or upload files to each other for ease of checking, moreover the price. You can comment and write articles to grade students
* The chat box was born to facilitate communication between the two sides and increase the process as well as the salary of knowledge and exchange increases so that students and tutors can communicate and exchange through it.
* The system's staff can view the dashboard that the system gives and analyze them based on the users to know what needs to be improved and completed in the future.

So, we have perfected the necessary functions of an old system as the proposed functions and will improve and improve it further in the future with the team and offer better solutions. in every right folding problem. With the functions that the system has had and we have done during the past process, we feel that these are just the basic criteria that every system must have to help the online teaching process be advanced. If we want to do the best we can, in the future with further development on the system, we want the system to be able to add other functions better to serve the purpose of online teaching. In order for students to see the teacher directly doing and teaching, we will do it as much as an offline session will be good, with the current functions, the camera It will only be a matter of time before and we are still working on it the added functions ensure the most confidentiality and privacy for users, as well as thoroughly analyze the vulnerabilities that are generated each time we add each function to it.

We still need to improve the system from the functions that make the system safe for users by increasing the steps of customer information security, finding security holes to prevent hackers from stealing information, all confidential information from users and documents uploaded to the site can be best encrypted because without security, the system cannot be maintained forever in the future.

## 2.2 Individual

I worked in the group as a database designer for the team, at first with the main programmer of the support group and ideas together and agreed, I also created the necessary database tables such as (student, tutor...). We have gradually improved but there are risks because of teamwork so sometimes my database fails to link to the back-end and we have determined the handling by finding risks and starting to set up. a new table for successful back-end linking.

I do design database but do not do it independently sometimes still need to be unified with groups and need the help of the main programmer so that every table in the database is closely linked and works best with linking with other functions and There is a lot of risk that needs to be solved.

I have learned a lot more than the database design for the group a lot and what I do for the team is not enough because I also help the team in assessing the ability and writing reports of the group's progress. How many percent of the project has been completed and the team has implemented so many functions that my database-based project requires to meet the minimum and necessary needs of the organizations. Features in the topic such as login, registration, members include roles such as admin, staff, student, tutor, upload file, posts, comment function in posts, online chat box, ... I have to implement every database and create tables to link together into the most complete function possible.

## 2.3 Group member

Our team encountered a lot of problems and problems during the process when the teams were always unified and united to solve as well as reduce the ego to bring the best product to this project. The first is that the team recruited an unwanted friend while the team was originally a new friend, we resolved and got to know each other quickly to carry out the project.

Our team does not have too much trouble in dividing the work as well as quarreling because of the clearly divided roles, our team is lucky that everyone has their own strengths to meet the needs. the role they are assigned to is that job as best they can, the big problem with us is just a matter of communicating with each other because everyone has their own family affairs and network or family incidents. Unemployed families are issues that are encountered frequently during the work but the team meets the assigned tasks and always gives a certain amount of time for group study so the work is always done and completed. most smoothly without too much difficulty.

The second problem was that the first main programmer is Quang initially had mechanical problems (Broken PC) and could not assume the role of the main programmer for the team, so the team had a downtime because no one replaced and Thanh had change roles for Quang took a role from one another and continues the work progress.

Next is the distance learning issues so we have a smooth communication without machine because of distance learning (Online) so we took quite a bit of time to communicate as well as unite but luckily Everything changes smoothly.

To sum up, my team does not have too many difficulties in working together, but each member tries very hard to complete the assigned work within the given time limit so every deadline of the group is completed quite on time. allowed and always in control of our team.

## 2.4 Evaluate each member

This is the scoreboard, the point I evaluate my group during the past group activity, but from my personal perspective and realize that the group has done well in the past 2 months. The following is an evaluation of the group members in my opinion and feel they get all those points.

**Main Programmer (Nguyen Doan Duy Thanh):** Thanh has done a great job and is the hardest person in our team who has helped a lot of the team members in their assigned work and has successfully completed the goals set by the team, in addition to As a group, I transferred the team captain to Thanh when Quang had some problems when he did not have electronic devices as computers to carry out the project, which is something we did not want and felt difficult in the time. that time without a leader and Thanh has managed the group brilliantly and could not have replaced Quang to be the leader to manage the team members and more to help our team from success. staff in the deployment and devising tactics for the team to help us get the job done As soon as possible when learning online from a difficult way as currently.

**Second Programmer (Vu Dang Quang):** Quang is a person who is good at implementing code and proficient in languages ​​like PHP, Java scripts, he knows and is fluent in many languages, so he is assigned to be the first team leader and the team is quite confident in giving him. He led the team and led everyone to follow him, but Quang encountered a big problem with his computer's power failure and led to the delay of our groups in the first 1-2 weeks. of the team and we seem to have failed. Thanh helped our team and Quang also solved the problem and helped Thanh in developing code and presentation and making power points for the group, Quang is also very hard working and compensating for the team losses in the days when he had unexpected problems y should Quang deserve a better score if he did not encounter unexpected problems. Quang helps the team in editing the reports and the team's presence is that he speaks out because Quang's strengths are programming and languages.

**Tester(Nguyen Quoc Tung Linh):** Linh is a new friend of mine, so we don't know him very well, but in the process of deploying things like system testing or functional testing, I felt that he was not focused and uncomfortable. I was very comfortable with the group because he was the one who applied for it and we didn't know him well, we started to work more together through the final stages of the schedule and also saw progress and our openness to us more and more has also completed the work in the assigned team and is a reporter and listens to the team's suggestions for him to revise as well as is harder at work.

**Design Front-end (Le Dang Thanh):** He is a fairly quiet person and often acts instead of a lot of words, often he will actively listen to the opinions of everyone and also find a way to solve the bar by speaking up and rejecting the opinions. and cause conflicts in the team, he usually does his duty and gets it done on time and doesn't really help or actively work as a team, but if he knows he always says Little but very good quality, the ideas he gives to our team are very helpful and like not saying much redundant sentences and avoiding conflicts in the team, he is a good person who is responsible and quite appropriate. In our team to be a person who gives our team more comfort and focus at work.

**Product owner (Nguyen Trong Dat):** Dat is a very funny person who always makes us feel comfortable and laugh when we meet or argue stressfully, he is not a hard worker or a very good doctor but he is quite tolerable. completed the work set and, at the very least, a few minutes later, his work was done a lot with the team members, not heavy and problems writing reports or programming but need a happy person. and need the energy of the team to work and operate, I don't appreciate his expertise like the other members of the team, the values he brings to the team are an invisible thing that makes our team. work and play happier and more productive.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Member** | Le Dang Thanh | Le Duc Anh | Nguyen Doan Duy Thanh | Vu Dang Quang | Nguyen Trong Dat | Nguyen Quoc Tung Linh |
| **Behaviors** | Place a 1-5 score in each box | | | | | |
| Arrives promptly to group meetings | **3** | **3** | **5** | **4** | **4** | **4** |
| Attends group meetings | **4** | **4** | **5** | **4** | **4** | **4** |
| Completes assigned work on time | **5** | **4** | **5** | **4** | **4** | **4** |
| Is fully prepared for each group meeting | **4** | **4** | **5** | **4** | **3** | **3** |
| Notifies in advance of late/missed meetings | **4** | **4** | **4** | **4** | **4** | **4** |
| Subtotal | **20** | **19** | **24** | **20** | **19** | **19** |
| **Teamwork** |  |  |  |  |  |  |
| Participates in group discussions | **4** | **4** | **4** | **4** | **4** | **4** |
| Offers ideas/suggestions | **4** | **3** | **5** | **4** | **3** | **3** |
| Is open to criticism/questioning | **4** | **4** | **5** | **4** | **4** | **4** |
| Acknowledges expertise of others | **4** | **4** | **4** | **4** | **4** | **4** |
| Does not dominate group discussions | **5** | **5** | **5** | **5** | **4** | **4** |
| Willing to give and take; flexible | **5** | **5** | **5** | **4** | **4** | **4** |
| Listens attentively to others | **5** | **5** | **5** | **5** | **5** | **5** |
| Follows through on promises/deliverables | **4** | **5** | **4** | **4** | **4** | **5** |
| Subtotal | **35** | **35** | **37** | **34** | **32** | **33** |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Leadership** | Place a 1-5 score in each box | | | | | |
| Solicits divergent opinions from others | **4** | **4** | **5** | **5** | **5** | **4** |
| Shares leadership with other members | **4** | **4** | **5** | **5** | **5** | **4** |
| Suggests important issues for discussion | **4** | **4** | **5** | **4** | **5** | **4** |
| Keeps discussion focused on key issues | **4** | **4** | **4** | **5** | **4** | **4** |
| Does not wait for assignments from others | **4** | **4** | **5** | **4** | **4** | **4** |
| Helps others when own work is finished | **4** | **4** | **5** | **4** | **4** | **4** |
| Pulls project together | **4** | **4** | **5** | **4** | **4** | **4** |
| Subtotal | **28** | **28** | **34** | **30** | **31** | **28** |
| **Technical Competency** |  | | | | | |
| Can explain own work to others | **4** | **4** | **5** | **4** | **5** | **4** |
| Corrects own technical problems | **4** | **4** | **5** | **4** | **4** | **4** |
| Conducts research as needed | **4** | **4** | **5** | **5** | **5** | **4** |
| Accurately generates statistical data | **4** | **4** | **4** | **4** | **5** | **4** |
| Participates in “number crunching” | **4** | **4** | **5** | **5** | **4** | **4** |
| Subtotal | **20** | **20** | **29** | **22** | **23** | **20** |
| **Work Product** |  | | | | | |
| Writes in agreed upon style | **4** | **5** | **5** | **4** | **5** | **4** |
| Submitted work is complete | **4** | **4** | **5** | **4** | **4** | **4** |
| Written work is professional | **5** | **4** | **5** | **5** | **4** | **4** |
| Oral presentation is well rehearsed | **4** | **4** | **5** | **5** | **4** | **4** |
| Output consistent with expectations | **5** | **4** | **5** | **4** | **4** | **4** |
| Subtotal | **22** | **21** | **25** | **22** | **21** | **20** |
| **OVERALL EVALUATION** |  | | | | | |
| Grade you would assign for project contribution (4.0, 3.3, 2.7 etc.) | **4.2** | **4.2** | **4.7** | **4.4** | **4.5** | **4.2** |
| Grade you believe they would assign you | **4.1** | **4.2** | **4.7** | **4.4** | **4.5** | **4.2** |
| Would you work with him/her again? Y/N | **Y** | **Y(Me)** | **Y** | **N** | **N** | **N** |
| Relative contribution to projects (divide 100 points BETWEEN all your group members – total points allocated = 100) | **15** | **15** | **25** | **15** | **15** | **15** |
| Names | **Le Dang Thanh** | **Le Duc Anh** | **Nguyen Doan Duy Thanh** | **Vu Dang Quang** | **Nguyen Trong Dat** | **Nguyen Quoc Tung Linh** |

## Methods:

Our team uses the Scrum method to operate the team and get their work done in this way, which is a great way to help the sprint team help the team work less time but effectively bring back more. This is a great advantage for a group that uses this method to operate the group. The sprint process allows for "good enough" development resulting in a system that can be taught even when the project is complete. This incremental distribution system shortens the time it takes to market and can lead to higher sales, because each completed backlog represents a new release of the product. Also when we consider each sprint before moving to the next, it means that the test is conducted throughout the process, allowing teams to change the scope or direction of the project at any time. come on. Although deadlines and budgets are fixed variables, the requirements of the project are not. In fact, Student and tutor anticipate significant changes and user participation in the project management process that facilitates these changes will be very positive.

# **3. Lessons learnt**

* We were able to improve teamwork more together, reduce the ego to help everyone in the group can understand each other and work together effectively and understand each other more in life.
* I have improved and developed more about creating a complete system so that users can log in and use normally, for me, it will be difficult if I take care of everything alone. that role, if not in group work, but anyway it helps me to know when we want to make a system, what do we need and how are the jobs broken down and step by step to complete? how that system helps me find myself disciplined and more sacrificed to achieve a common goal.
* In terms of project development, we have learned that the Scrum model is also the model we apply and this project helps our team work and develop more effectively, thanks to this method that helps the team to solve the problem. solving risks and solving problems in the best way for project improvement and development work.
* I have improved communication and online learning in a clearer and more effective way, indeed this is a difficult time to study in group activities as well as groups that cannot meet and working offline to help the team complete the project faster, but is also an opportunity for the group to learn new ways to make remote team work more effectively.
* I have learned how to work in a team and how to make our team feel comfortable and resolve conflicts with each other at work. Although online meetings, conflicts are inevitable. For our team, Quang and Thanh were also two people who had conflicting management styles and the way they worked differently and the problem I learned was thanks to the other members who solved it. and I'm the one who has learned the good points of the other members, such as having to reduce my ego to listen more, working together to find a purpose of the two options proposed to lead to one. other more efficient. Those are just two of the countless other experiences we have as a team together and we are grateful for that.

# **4. Conclusion**

Overall, I have evaluated detail the products and each team member so we can better understand each other, what roles each person undertakes and what they've experienced and the difficulties each member has experienced. answer and present most specifically to understand the situation of the team as well as the most specific progress reports we have made, we have completed the set schedule and the system with all necessary functions. as well as the most visible interface to serve students and tutors and for all ages about the online teaching system. I shared the difficulties and personal ideas about group activities and the difficulties and risks of running and evaluating, we worked together to solve the problems we encountered and asked us to a very good leader of the team Thanh has helped other roles and helped us deal with and communicate more with each other. My team and I also tried to complete the project in the absence of meeting time and study group offline but improved the problems and were able to complete the project according to the group's expectations. in the project.