Enterprise Web Software Development

April 18, 2022

COMP1640 - TCH2004

Authored by: Tran Van Minh
ID: 001249274

	Member Team	Role
	Do Huu Tu	Tech lead, back-end developer
	Tran Duc Luong	Back-end developer, Database developer
Group 3	Tran Van Minh	Scrum master, Database designer
	Ha Quyet Tien	Tester
	Mai Hoang Anh	Front-end developer

Technologies: nodejs, bootstrap 4, mongodb

URL of website:

https://drive.google.com/drive/folders/1eH22h1Xd74Bs8RLrM59R96P_12fDTpcs?fbclid=IwAR2SsHgunuxTrIm_71lNeb8gK32ivceUxVCWdTly1eHLHS8i8qkKdmAZ858

URL of our video:

https://drive.google.com/drive/folders/1DiClYRLNUCicmxtfHEuOJbWEwtzZacP9?fbclid=IwAR3mbjjQ9UQFIvdS4EIe0PNjRfmY4Fa6sTyaNBnfRIvzMeL61wRP0-tc1mM

Link GitHub: https://github.com/WebEnterprise-Group03/WebEnterprise

Product backlog URL, Sprint backlog URL:

https://docs.google.com/spreadsheets/d/1y5l5XjKwYdMQbCjWR2727xNlE4t4aZ39kRnvjLX0-Fw/edit#gid=0

Accounts Of System		
Username	Password	Role
luong2000	123456	admin
dohuutu2000	123456	staff
tuhuu1234	123456	staff
hoanganh	123456	staff
vanminh	123456	staff
tuhuu123	123456	coordinator
tudepzai0123	123456	coordinator
luongtran	123456	manager
huutu	123456	manager

Contents

Introduction

My team has just created a website system in large university. The website will collect ideas for improving the university from Staff. There are evaluation about the product, the processing, my team and me.

Evaluate product

This is the first time we work together, so in my opinion our product is quite good. There are some aspects below I want to evaluate :

Database:

- Accounts are secured, we also encrypt the passwords. No one can know your password, even admin can't know it.

Interface:

- The interface is very clear, easy to read. It also has smooth navigation,

Functionality:

- The log in, log out, upload documents, comments or static dashboard work well.
- The role-based security is good for data.
- Quality Assurance Manager can see list of ideas, can add or delete categories. QAM can also view static dashboard, download all idea data or uploaded documents.
- Quality Assurance Coordinator can receive email for new submissions and see list of ideas.
- Staff can submit documents, can see all ideas, can read and give comments. Staff also can like or dislike any ideas, receive email when their ideas get new comments, and see lists of ideas.
- Admin can create new accounts for QAM, QAC and Staff, also set and edit first and final closure date, and see list of ideas.

Performances:

Our website works quite fast. We use Heroku for hosting our website, and the speed is acceptable.

Testing:

We already provided a test plan, test case include comfortable data. There is lots of evidence of testing we have provided, and we also test all functions of user stories.

Weakness of our products:

Security: only role-based security

Interface: we haven't developed interface for mobile and tablet

Functionality: We have done almost everything. But the function that admin can maintain the system we haven't done yet.

Evaluate process

We have applied Agile Scrum methodology for our project. Here is how we have applied it.

First, we decide how many sprints we need to finish the project. After the discussion, we decide there are 3 sprints, and the total time for each sprint from 15 to 20 days. We also decide a role for each member, and do the product backlog for the system. In early each sprint, we always have the Sprint Meeting Minutes. We will discuss the total time of sprint, what we will do and the team challenges. From the meeting, after we decide what we will do, we will put all necessary product backlog items to the sprint backlog. We also find a way to overcome the team challenges. During the sprint, we always try to do all items from the sprint backlog. Every day, we always have a 15-minute-meeting, these are daily meetings. We will discuss what we have done the last day, and what we will do today. All members of the team usually work at a place, such as someone's house or café. Moreover, we also have burndown chart during the sprint. This helps us a lot to manage the progress of the time, so we can know and overcome if the progress is too slow.

Some advantages of Agile Scrum methodology for our project:

- Faster handover: because each sprint is quite short, so we can easily identify and fix the problem faster.

-Face-to-face communication helps us save our time to communicate, we don't need any documents.

- The Scrums help us to have done the system quickly, we have done the system for only 2 months.

- We also know clearly about what we will do through the Meeting Minutes.

- We also know the effort of each member through the daily meeting.

However, there are some disadvantages below:

- The first time we apply Agile Scrum methodology, so it is hard to get acquainted with the Scrum.
- Sometimes the daily meetings frustrate us because someone is lazy and not effort for the project. Or someone's health is not good, so they cannot finish the work on time.
- It is quite hard for us to know the quality of the product after we go through a hug testing process.

Some obstacles:

- The first time I work in a team which apply Scrum, and I am the Scrum Master also. So in the early session, I have a lot of things to learn about the Scrum and I have to share my experience and knowledge about it for my team.

How overcome:

- I spend more time for this project, learn using Internet and asking Tutor the questions I don't understand. I also learn from my uncle who fully know the Scrum.

Self-evaluation:

During the project, I play as Scrum Master and database designer role.

Team work:

- As a member of the team, I am willing to help my team if they want. My team and I also work together perfectly, so we have done a good product, just in my opinion.

Leadership:

- For Scrum Master, I try to lead the team to apply the Scrum in the most accurate way. I also listen to the challenges of members and try to find a way to overcome them.

Management skill:

- My management skill is quite good, for sure because I am the Scrum Master. I always know the progress of our project and my team members. I also help them if they have some problems, or simply just create a funny air around us. Furthermore, I always join all the daily meetings, every day. And I plan for the meetings to go well.

Technical skill:

- For database designer, I create a suitable ERD, etc for my team to easily understand and develop the project correctly. I also help team members to validate data correctly

Team Evaluation

The bellowing form will show the evaluation of my team.

The scale is from 1 to 5. (Very Low - Low- Medium - High – Very High)

	Tran Van Minh	Mai Hoang Anh	Tran Duc Luong	Do Huu Tu	Ha Quyet Tien
Behaviors					
1. Join meetings.	5	5	5	5	4
2. Notify for late or missed meeting.	5	5	5	5	5

3. Attention the meeting.	5	4	5	5	4
4. Attitude.	4	4	5	4	4
5. Get the deadline	5	4	5	5	5
6. Contributing attitude.	5	4	5	5	4
7. Prepare for meeting.	5	4	4	5	4
Total score	34	30	34	34	30
Teamwork					
1. Communicate with members.	5	5	5	5	4
2. Ask advice.	5	5	5	5	4
3. Contribute ideas	5	4	4	5	4
4. Do not complain	4	5	5	4	4
5. Follow project progress	5	4	5	5	4
6. Solving problems	5	4	4	5	4
7. Share knowledge	5	5	5	5	5
Total score	34	32	33	34	29
Technology Knowledge					
1. explain work to other members	5	4	4	5	4
2. Always study and learn	5	4	5	5	4
3. Troubleshoot when necessary	5	4	4	5	4
Total score	15	12	13	15	12
Contribute					
1. Full time	5	4	5	5	4

2. Always meet requirements	5	4	5	5	4
3. Appears when something goes wrong	5	4	4	5	4
4. Contribute skills or experience to the project	5	4	4	5	4
5. Contributing more to the project (these contributions are optional)	4	4	4	4	4
Total Score	24	20	22	24	20
Overall Evaluation	107	94	102	107	91

The first person is Do Huu Tu. He plays as Back-End developer and technical leader role. He is an active and sociable person. He is hard-working too. He has good knowledge about programming skill, he just helped us a lot to have done the project.

The second one is Tran Duc Luong. He plays as Back-End developer and data developer role. He is very serious about work, always have done the work on time. He has good technical knowledge. Sometime he helped me to lead the team use the Agile Scrum methodology correctly. He also coded the data base well after I send him the ERD.

The third one is Mai Hoang Anh. He plays as Front-End developer. He is the only person who do the Front-End, so in the early project he missed some work. He has basic technical knowledge I think we only have one Front-End developer, so that is understandable. But he still could finish all the work we need, so it is fine.

The last one is Ha Quyet Tien. He plays as Tester. He has basic testing knowledge as well. He is not hard-working like the 2 Back-End developers, but the testing process still goes well. The test plan that he provided is quite good in my opinion.

Lesson Learns
This is my biggest project. After that, I learned lots of new knowledge:

- New methodolygy – Agile Scrum : after the project, I know how to apply one of the most popular methodology.
- Communication Skill: in the Scrum, the face-to-face communication helps me confident to talk with other.
- Problem Solving Skill: the Scrum teach me to identify the challenges, and I know how to suggest a way to overcome them.

- Leadership skills: as a Scrum Master, I also learn that how to lead a team work perfectly, at least with the Agile Scrum methodology.
- Working in a group: after the project, I have learned how to work in a group. Each member will have their own role, and do their work also. If someone haven't done their work, the project will have too many problems.

Conclusion

The report discusses about evaluation of our product, our process and our team. I also discuss about my lesson learn after the project.

Bibliography

There are no sources in the current document.