

SOFTWARE HUT

INDIVIDUAL REPORT

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1. The Progress of the Project:

After our 1st Client meeting itself, we had made our story cards and then split them equally between us. For the next Client meet we had planned earlier that we would show our Moqup Design to the Client and give him the look and feel of our web application. Rachel Smith had developed 50% of the **Moqup** and then next 50% was done by myself. We have always stuck to deadlines and maintained the quality of work.

Our client was very happy with the design and gave us further new requirements which lead us to add some new Story cards and change the Moqup design for some pages, these changes were made by Isaac Hill. After our Moqup was ready, I was given the task to make the **Database Design** with Jacob Dalrymple which was later improvised because of new requirements by our Client and also to make the **State Machine Diagram** with Bazif Khan. After we had the design ready, we started developing the story cards assigned to all of us.

Story cards that we were assigned to me were: Add, Edit Delete a Bike (Frontend & Backend). Since all our Add Vehicles/Bikes/Tools/Workers were Bootstrap Modals and must be on the Admin Homepage, I made both (Modals, Admin Homepage) of them. I had pair programmed with Jacob Dalrymple to make the Add Van.

The 3 significant story cards were: *Scanning Vehicles/Tools, Search and View the History of Vehicles/Tools and the Login System* from which I had taken the **Login system** as I finished my work before deadline and others were allocated to the remaining 2 story cards. I had to implement the Login system **twice** because of the change in requirement from the Client. Our initial login system comprised of a Bootstrap Modal where the EFM Department could log into the system through their CICS credentials. While developing the Login system, I was a bit confused as I didn't know who all were a part of the EFM Department and Rachel Smith who had maintained the single source of contact with our Client had double checked if he is still wants the login in Modal format, that was when I knew the fresh requirements.

Our Client wanted to use the **Sheffield MUSE Login page** and wanted only specific people who were the **Admins** to log into the system. Since I was developing the Login system I had also taken the task to develop **Add/Delete Admins**. Thus, I developed the Login system again within a week as our team had decided not to work over Easter and finish 90-95% of the application before vacation.

I had also written **19 End to End test cases** for the application covering a wide variety of tests (Login, Add/Edit/Delete Bikes/Vans/Workers/Tools/Admins) and had actively participated in Bug-fixing of the application. Apart from developing, I had also extended my hand in updating the screenshots of the User Manual, written regarding the Test Case files in the Developer Manual/Installation Guide.

2. The Lessons Learnt:

PART – A:

- **How has the experience in this project changed the way you would approach a similar project in the future?**

I have learnt a lot from this project like participating in Client Meetings, forming story cards, developing and testing the application. In case of a similar project in the future, I would always do my homework before any client meet and make sure what questions to ask him/her as I would have an idea of their business. Using a **Kanban board** is a much better way to track progress and check the work allotted to each one. I would use **Slack** for better communication with my colleagues. Maintaining **Risks** and **Mitigating** them has always been a significant component of the project. Following an **Agile** procedure has always been the best software practice as we had used it this time in our project, henceforth, I would do the same. Thus, these were some of the experiences that I would implement in any upcoming similar project.

- **What things did you try but found were not useful? In contrast, what things worked best in solving problems?**

When we started merging branches with the master, there were instances where some of our work used to get deleted because of the different versions we were working on. This wasn't useful because the version on the master branch was the final one. Thus, we decided to either make a new branch by checking out of the current branch and then merge the master to it as that wouldn't lead to any loss of work or merge master with the current branch and then merge it with master again after checking all the functionality works. This worked the best for us in solving the problem to retain the latest version so that it could be deployed.

- **What advice would you give to a student who was going to take this module next year?**

I would definitely recommend one to take this module as we not only learn to code but also develop interpersonal skills. Working with people, with diverse backgrounds is the best platform where one can develop him/her self. The only **advice** I would give is:

*“ To make the best use of the resources that **Epigenesis** provides and make sure work is being completed on a timely basis as that has helped me a lot this time. If you don't make use of the lab session then developing the application could be a tough time. Always ask questions “Why this? or Why that?” because that is when the learning gets onto a new level and makes us think out of the box when a problem arises. The Demonstrators and the Staff have always been the backbone and are always there to guide you in the right direction so definitely go for it and best of luck! ”*

PART – B:

- **Describe a time when you couldn't meet a deadline in a team project. What did you do about it and what was the outcome?**

When I was developing the Login system, I was stuck up at one point because I needed some information from the Client because of which I couldn't meet my deadline. Our team wasn't sure if the EFM Department had only Admins and Drivers/Workers because our client was interested in

only the admins to log in to the system. We fixed an appointment so that we could call him and find out the exact details. Thus, I started working on the Test cases and the moment I knew about the information from our Client I resumed back to the login system and was given a new deadline and finished my work before it and started working on the End to End test cases.

- **Tell us about a time when you had to communicate complex information to other team members.**

When we got fresh requirements from our Client, he said that he would prefer the University of Sheffield MUSE Login page for his admins to log in. So, I had the Epi-Genysys staff to explain to me everything about how their Epi-Cas gem works. So, while working on Local machines they had set up their Gem to use LDAP (University's backend) and when application deployed it would change to CAS (University's Authentication and Authorization to log in with MUSE credentials). All the information like their name, username and email about the Admin we had stored in our Users table was automatically retrieved by the LDAP method. Since I had used the **Devise** gem to make the login functionality work, the default login page provided by Devise automatically converts to the MUSE Login page when the application is deployed. This was a lot more complex to understand and also to communicate when I was developing but now it seems easier to understand.

- **What are your strengths?**

My greatest strength has always been a combination of flexibility, enthusiasm and persistence, I find that this is very important when I am working with a variety of people with different opinions and diverse backgrounds. My work ethic won't let me settle for less than I give my best. I have always maintained a positive mindset which makes my things go way easier than expected.

3. Allocation of Effort:

I would give everyone equal marks because of the effort that was contributed towards this project was impeccable. Everyone was present in the meeting at all times and working with them has been really smooth and easy. We had always supported and helped each other if anyone was stuck up with something. Everyone has their own strengths and weaknesses because of which we had split the workload equally between us. We had met our deadlines at all times as we were quite organized and planned that we would finish most of our work before the Easter vacation. It has been a good team to work with right from developing to documentation.