**Form D: Progress Report (ST\_PRGS)**

**Progress Report No. (Final)**

**Achievements**

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# **Introduction**

In this summer our faculty FCIT has provided to students whom about to graduate a summer training. To prepare us to learn from life experience jobs and gave us the opportunity to knows how is the work field looks like which also shows the students the right field they would like to adopt. The place that I train in this summer is called the king Fahad medical research center especially in the joint supervision program department (JSP). The JSP is considered a unique program among all Saudi universities that was initially founded to provide opportunities to female lecturers and teaching assistants at KAU to pursue their PhD studies from a variety of prestigious international universities without the need to travel abroad as the situation in case of full scholarship program. Since the importance of this program our training is based to develop a visual identity for the center and updating the website to keep up the vision of the center. Along with doing more important tasks for the program improvement. our supervisor in the center has given us two main important tasks which are the database and the interface for the units in the JSP department, besides the website for the center. So far, we did so well on both tasks even though we did not finish it yet but we are learning and doing our best. Moreover, in these two weeks we were more focusing to accomplish the database and the website faster since we did not have so much time left.in this report we will show in detail what have we done through our journey in training.

# **The first week**

On the first week of the training, it was all about how to do a bright attractive visual identity for the website of the program and understanding the requirements to do the appropriate logo for the center. Besides, collecting requirements for doing a database for the staff in the JSP department. On the first day, an introductory meeting was held with the training supervisor at the center, to learn about the joint supervision program and the objectives of the center's vision, and to discuss the most prominent problems. Our first task was to modify the website design for the joint supervision program, but there was a problem as there was no logo and visual identity for the joint supervision program. Moreover, the meeting was about the visual identity and its requirements and the restrictions that must be followed to implement the logo in the appropriate way for the center in terms of the colors required for the logo and the content that will be include in the website as well. The second and third day me and my friends in the training were discussing and doing the visual identity for the center and the website. As well as, designing a logo that shows and holds the meaning of the center identity/vision. Then, we choose the colors of the visual identity and every color represent a special meaning. On the fourth day, there was a meeting held with the training supervisor in the center to present the priority designs that we designed for visual identity and the logo to verify if all requirements were implemented and modify the requirements if its need. What is more after the meeting that we had, our supervisor in the center have liked the visual identity and the logo we made. And she accepts it so it can be submitted to the concerned authorities for the approval in order to design the website of the center. While awaiting accreditation, we have been assigned to implement databases for three units of the JSP department, which are the educational affairs unit, the financial affairs unit, and the laboratories unit. We divided ourselves into three groups with the number of the department

units and each group has three girls. We have collected the initial requirements of the databases to be implemented. On the last day of the first week, we have designed preliminary/initial interface for the database and present it to the units’ supervisors to check the requirements and modify them if its need. In short, the first week was all about the logo and the visual identity which was the most important task that we came for. Also, the database task that we assigned to it was for the units’ staff in order to organize their work, so they gave us a brief description/simple requirement to understand what they need from us. And the second week will be all about the database.

# **The second week**

The second week of training was all about collecting requirements whether for the database or for the website. We did an interface prototype for the database for all units and checked if their requirements were all include in it to start coding. The first day the staff that we were doing their database for, asked us to set a meeting with them to discuss the prototype that we made for them and they liked it. Besides they did some modifications in the requirements to add it in the interface for the database. The second and the third day also was about collecting requirements and designing an interface prototype for all the units in the department. Me and my group were responsible of educational affairs unit to design an appropriate interface that satisfy the supervisor needs. But suddenly the educational affairs and financial affairs units informed us to gather for doing a meeting about the database we are going to do, and they told us to merge the both databases into one database that covers all the information and the requirements that they need. So, after they told us what they need both of the two groups my group and my friends in the financial affairs met to collect our thoughts to design a wonderful interface prototype that covers all the both units need. Moreover, we did send them the initial prototype (sketch) after they merge the both databases to see if we cover all the information that they asked us to do. After this last meeting with staff of the both units we made sure that every input in the database is ready to implement. As well as we decided what programming language to use for the database which is Python; we are going to use tools that will help us to build a modern interface fit the database input. The fourth day was all about discussing the website of the JSP center. Our supervisor in the training gathered us for doing a meeting to ask us our needs for doing the website. and what we need from her to give us for example information to write in the website or content of the website. Also, we asked her if the concerned authorities have approved the logo and the visual identity or not and she said not yet. Since there is no logo and no visual identity, we could not start coding and designing the website. So, we put all of our focus in the database designing. The last day of the second week we were checking and searching for our needed tools for building the database and the interface. Along with looking at similar projects to make the idea clear. In addition, our supervisor in the center has informed us that the logo and the visual identity been rejected so we need to make some little changes on the logo to start then design the website. Finally, since we had a clue and a vision on how the database will be implemented, we will start coding the next week.

# **Third week**

In this week we were more focusing on the database since the higher authority did not gave us any conformation for the logo designing and colors, so we did not work on the website of the center. Instead of that we were designing the interface for the database and we made sure to cover all the requirement that needs to be shown for the user which they are units administrator. After, we designed the ER diagram for the database to know how to connect every single data to each other and how it should be represented. The first day, we worked on the data interface designed by using Qt Tool but we did not like the interface that application did instead of that we chose tkintar tool in Python because the interface is more efficient and not boring since we can control what color of interface we like, also we arranged the data base in Excel to make it easier for us to know what data do we needed to be shown in the interface. We wrote a new version of book that need to be putting in the website for the center, the content of book shows illustrations and information of the JSP programs. The second and third day, the two groups of the educational affair and the financial affair were divided into two to do the ER diagram for the database and mapping the data into schema diagram to connect the tables that we did on the ER diagram we did these to theoretical parts to make it easier for us to do the coding part of the database. Moreover, the other group have done a small part of coding the interface by using tkintar in python. Besides, we decided to use sqlite to do the coding on the database so we can connect them to the interface after we finish the coding of both database and its interface. All of our works in these database task were by watching educational videos to learn from it. And we still watching videos to learn from it new stuff that will benefit us in the training. The fourth day, this day was continuation for the previous day works since it was full day of work, the coding part especially the interface was a new experience for us since we did not have done stuff like that before so it was a kind of hard at first but after watching the videos, we know how to build the interface correctly. Also, the database coding part was easy but we forgot stuff since its been a while from taking the course it took us time to remember but after that we figure it out. The sqlite tool was a new for us as well but after watching couple of tutorials it becomes easier for coding. We also watched a similar project on YouTube that helped us as well. The last day of the third week was more about the interface of the database coding we build the fundamentals of the interface like the buttons, textbox, the colors, and the constraint that should be existing in the interface for entering the data of the students of the program.in addition we modified some of the tables of the database we add new data that we forgot to add so we did some modifications on the database coding as well. The first week was all about the database requirement, its took us a long time actually to understand the requirements that administrators needs on their database but so far we are doing so well.

# **Fourth week**

In this week our supervisor in the center got a news for us that the higher authority gave their approve to the visual identity and logo for the center so, we they told us immediately to stop the work that we doing on the database task and to start work on the website which is the most important task that they want us to done since the center does not have a visual identity from a long time. The first day of the week, tis day was as well a continuation for the database we made some modifications to the ER diagram to reach the required format for the correct database programming work, as well as completed the interface programming but not fully because we noticed some mistakes that needed to be modify. Moreover, our supervisor at the center held a meeting with us to discuss the website requirements that should be in it, she gave us the initial divisions of the website and how its interface might be. And my colleagues and I will understand the website divisions in order to divide it correctly and fairly between us. The second day, after we made some modifications to the ER and adding some data that we lacked, the database became clear to us initially, and we did programming for it using sqlite. my colleagues did a big part of the interface code for the database and adding the appropriate fields and data to the database. It is possible that during our progress in programming the interface and the database, we face some modifications, but in principle all of that we did so well. The supervisor of the center suggested that we stop and start working on the interface of the center's website, which is the most important thing. The third day, in this day we stopped the database task temporarily and start working on the website for the center. We watched some tutorials of the websites coding on YouTube to learn how to code it quickly. We watched HTML and CSS clips to understand the basics of them to use it in the website coding. Besides, my colleagues and I start working on the website coding since two of them have some knowledge about the websites coding so they did a small part of coding to make sure that they know how to deal with it. They did a small example like the tabs and the colors of them. We decided to do the coding pages then copy the pages on the right box of the website. The fourth day, we did an initial design for the website interface icons that will be shown for the users that will enter the center website. Moreover, my colleagues did some updates on the book design to make it more comfortable for the eyes. The last day of the fourth day, we decided to divide ourselves into two groups. The group of educational and financial affairs on the database and its interface in order to finish it quickly in the exact time. And to put our all focus on the website designing and coding which is the most important thing. Our supervisor in the center set with us a meeting to discuss with us the prototype or the design that show wants the website looks like. She gave the what tabs she wants, the addresses, and the content of it. this week was full of works since their still no time left to finish the training but we are doing our best.

# **Fifth week**

This week was completing the pervious task that we have not finish it yet which was the database system task. We tried to improve our interface to make it look efficient for the admin to use. We added some features like adding by name or university, transitions between frames, and changing the colors of the interface. Besides our colleagues were completing their inserting for the data that our manager has given us. Since our data is a lot, we divided into groups to insert them. Moreover, our friends were doing the initial interface for the website and they did the main sections that must be shown for the users, and they put icons for the sections. And added photos in the website interface. Along with that we complete the electronic guide book for the website. We did it in both languages Arabic and English.in the last day of this week our supervisor in the training gave us the content of the website that we are going to add it in website. Moreover, in this week we stopped working on the database system because they told us to do so.

# **Sixth week**

Since our supervisor in the training gave us the content of the website, we divided the main sections on us to finish the task faster, for me I did the section the electronic services especially procedural guide. I did the graphical pictures that clarify for the students how to select the appropriate service for them. Overall, this week was all about the website task since they gave us the content late, we tried our best to finish as soon as possible.

# **Achievements**

Our achievement in this training was gaining a lot of experience like:

* designing interfaces for the webs and systems.
* Learning new programming languages like HTML, CSS, JavaScript.
* backend and frontend development, web development.
* creating database for real data.
* problem solving and project management.

# **Challenges**

We faced a lot of challenges in this training. Since we do not have any technical supervisor. we did not know how to deal with the database system. We faced so many problems for choosing the right tools and dealing with website inter face we did not know the Marz system. Since we were working on real data, we needed some help but they did not provide technical supervisor, however, we tried to over come these challenges and make it learning journey for us, since it the right time for us to learn and know how the work felids looks like.

# **Conclusion**

To conclude, I gained new technical skills and learned how to work well in a group during my summer training at joint supervision programming (JSP). The tasks were interesting, and the work environment was comfortable and positive. Besides the challenges we faced our supervisor an employes were trying their best to guide us since they not majoring in computer field. Overall, the training in JSP was very flexible, encouraging and prepared me for future career experiences after graduation and how to face challenges.