King Fahd University of Petroleum and Minerals

College of Computing and Mathematics

Information and Computer Science Department

ICS / SWE 399: Summer Training

**Progress Report # 2**

**Reporting Period: Weeks 4 – 7**

**Student Information**

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| Name | **Abdulaziz Hakami** |
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| Major | **Computer Science** |
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**Company, Department and Team Information**

***(You can remove this section if you are still in the same team.)***

|  |  |
| --- | --- |
| Company Name | Royal Commission for Jubail & Yanbu |
| Department / Division Name | Shared IT and Information Services |
| Your Team Size  *Put 1 if you are working on the project alone* | 1 |
| Briefly describe the role of your team in the company and how the team supports the main business of the company? *(How does your team help the company make money?)*  *Use at most 50 words* | The role is to develop a system to help departments track digital transformation standards. This supports better planning, progress monitoring, and informed decisions, which improves overall organizational performance and supports the company’s goals. |

**Revised Project Information**

*Complete a separate table for each project you are assigned. If you are part of a group, clearly specify your individual responsibilities and tasks.*

***(You can remove this section if you have not started working on a new project during the reporting period.)***

|  |  |
| --- | --- |
| Brief summary of project scope and objectives  *Use at most 70 words* | Develop a web-based system that enables departments within an organization to track and complete their digital transformation standards. And an administrator that assigns standards goals to departments, The system includes role-based dashboards and functionalities to assign, track, approve, and evaluate progress. |
| Clearly describe your responsibilities and roles  *Use at most 50 words* | * + Design the system's UI/UX   + Develop the frontend interface for both admin and users   + Implement the backend services including authentication, data management, and reporting   + Set up performance dashboards and status tracking tools   + Conduct full testing and deployment of the platform   Deliver complete documentation and meet all project deadlines |

**Revised Training Plan for the Reporting Period**

*Insert the portion of your revised training plan for the reporting period. Any feedback received on your training plan should be reflected in this version of the plan. This portion should now be final.*

|  |  |  |
| --- | --- | --- |
| Week # | Tasks | Outcomes |
| 4 | Database design and backend coding, basic frontend implementation. | Completed the ER diagram and backend backbones and create/edit/delete standards |
| 5 | Frontend implementation and backend development | Completing (upload/view documents, update status, view performance dashboard). |
| 6 | Finalizing Frontend and backend coding | Completing non-functional requirement and improving the UI/UX design |

**Tasks Completed**

*Complete a separate table for each task. These tasks should be in line with your training plan.*

|  |  |
| --- | --- |
| Task 1  *Give each task a descriptive title* | Frontend and backend coding |
| Brief description  *At most 50 words* | Developed core functionalities of the system, including user interface, backend services, and database(SQL) integration. The task covered read,write,update operations, file upload/view, status updates, and dashboard integration for performance tracking. |
| Accomplishments  *What are the outcomes?* | * Designed and implemented responsive frontend interfaces for admin, Management and department users * Built APIs for managing standards, users, roles, and documents * Integrated file upload and changing status and approval. |
| Technical skills applied and/or learned  *Mention specific technologies, frameworks, tools, methodologies, … etc* | * Frontend: React.js, Bootstrap 5.3, JSX, component-based design, Bootstrap studio * Backend: ASP.NET Core Web API, C# * Database: Microsoft SQL Server, Entity Framework Core * Other Tools: REST API, Postman (for testing), Git, Visual Studio, VS Code |
| Challenges faced and solutions  *Summarize any significant challenges encountered and how you addressed them.* | * Responsiveness issues: Adjusted bootstrap classes to support Arabic layout and responsive for small screens. |
| Evidence  *Insert a few images to document your accomplishments. These could include diagrams, code fragments, etc. You may need to resize images to fit within the cell. Alternatively, you can use the appendix for this task to document the evidence.* |  |

Appendix 1

*Task #: Title*

*This section is optional but highly beneficial for developing your final report. The appendix serves as a space to provide comprehensive details about each project task. Use one appendix for each task you want to document further.*

*For example, if one of the tasks is requirements gathering, you can use the appendix to give more details about the requirements gathering process and list the final set of requirements.*