

Progress Report 2 - Summer Training (ICS399)

Alfaifi, Ammar - 201855360

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1 Introduction

During the last three weeks of my summer training in ICS399, I have been actively working as a software engineer, engaging in various tasks and gaining valuable experience in the field.

2 Schedule

Task	Start Date	Duration	Status
Engage in product requirements analysis	July 16	3 weeks	Completed
Django backend web development	June 9	5 weeks	In Progress
Front-end web development (HTML, CSS, JS)	June 9	3 weeks	Completed
Use case implementation and new feature development	June 9	3 weeks	Completed
Web system testing & refactoring	—	2 weeks	Planned
Web system deployment	—	1 week	Planned

3 Work Done

- **Product Requirements Analysis:** I actively participated in the analysis of product requirements, including understanding the project's scope and identifying user needs and functional and non-functional requirements.
- **Django Backend Web Development:** I dedicated a significant portion of my time to Django backend web development. I worked on building robust and scalable backend components that form the core of the web application.
- **Front-end Web Development:** I delved into front-end web development using technologies like HTML, CSS, and JavaScript. I created user interfaces that are intuitive, visually appealing, and responsive.
- **Use Case Implementation and New Feature Development:** I collaborated with my supervisor to implement various use cases and introduce new features to the system. One of the key features we worked on was a service that allows employees to request loan. We meticulously designed Django models and developed 10 use cases to support this feature:
 - View Employee Loan
 - View Employees Loans
 - View Loan Requests
 - Create Loan Request
 - View Loan Request
 - Delete Loan Request
 - Update Loan Request

4 Upcoming Tasks

- **Web System Testing & Refactoring:** In the upcoming weeks, my focus will be on testing the web system thoroughly. I will conduct unit tests, integration tests, and end-to-end tests to ensure the system's functionality, reliability, and security. Additionally, I will work on refactoring the codebase to improve its maintainability and readability.
- **Web System Deployment:** As we near the end of the training period, I will be involved in the process of deploying the web system. This will involve setting up servers, configuring databases, and ensuring a smooth transition from the development to the production environment.

5 Conclusion

Overall, this summer training has provided me with valuable learning opportunities. Engaging in real-world software engineering tasks, from requirements analysis to deployment, has given me a deeper understanding of the engineering process and the workflow involved in bringing an idea to life. I look forward to the challenges and learning experiences that the coming weeks will bring.