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FACULTY OF PHYSICAL AND COMPUTATIONAL SCIENCES

DEPARTMENT OF COMPUTER SCIENCE

Project Title: **Skillsync**

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Index No: 4215120

Date: September 3, 2023

Summary

Skillsync is a minimalist application designed to connect individuals with specific skills to those needing those skills for various tasks and services. This report provides an overview of the project, including its objectives, technology stack, software architectures, user interface, and implementation details.

Project Background and Problem Statement

In a world where skilled professionals are in high demand, Skillsync emerges as a solution platform to streamline the process of connecting skilled workers (referred to as employees) with those in need of their services (referred to as employers). The problem statement revolves around the challenge of efficiently matching employers with employees possessing the requisite skills.

Project Objectives

The primary objectives of the Skillsync project are as follows:

• Develop a user-friendly platform for registration and login of skilled workers and employers.

• Create a seamless connection between employers and employees, fostering a hassle-free experience.

• Design an intuitive user interface to simplify the registration process and facilitate service requests.

Methodology

The project implementation involved a two-fold approach:

1. **Front-end Development**

The front-end of Skillsync was crafted using the Flutter framework, with a primary focus on adhering to the MVVC (Model View View Controller) architecture. This architectural choice allowed us to modularize the codebase, ensuring a more manageable and scalable front-end development process.

2. **Backend Development**

On the backend, we harnessed the power of Java Spring Boot, following the MVC (Model View Controller) architectural pattern. This approach provided a structured and organized way to handle data logic, user interfaces, and the flow of information.

Results

The project yielded several noteworthy results:

• Successful implementation of a streamlined and user-friendly registration and login system.

• Seamless integration of the Flutter front-end with the Java Spring Boot backend, facilitating smooth communication between the two.

• Development of a visually appealing user interface comprising multiple pages, enhancing the overall user experience.

Challenges and Solutions

Throughout the project journey, I encountered and addressed various challenges. One prominent challenge was the integration of Flutter with Spring Boot. To tackle this, I leveraged REST APIs, enabling seamless communication and data transfer between the front-end and backend components.

Conclusion

In conclusion, Skillsync emerges as a promising solution that effectively connects skilled workers with potential employers. It's user-friendly interface and robust architectural design contribute to a seamless and efficient user experience. While challenges were encountered, the successful implementation of the platform underscores its potential to bridge the gap between job seekers and employers.

Future Works

Looking ahead, there are several avenues for potential expansion and improvement. Future developments could include:

• Expanding the array of skills and services offered on the platform to cater to a wider audience.

• Incorporating a rating and review system to enhance transparency and trust between employers and employees.

• Strengthening security measures to safeguard user data and privacy.

References

• Flutter documentation: https://flutter.dev/docs

• Spring Boot documentation: https://spring.io/projects/spring-boot