De La Salle University-Dasmariñas

NETWORK-BASED PAYROLL SYSTEM WITH BIOMETRICS TECHNOLOGY FOR CORAZON B. ZABALA COMPANY

An Undergraduate Research Proposal Presented To
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ABSTRACT

Corazon Zabala Company, an auditing and bookkeeping firm **l**ocated at Las Piñas, Metro Manila does not have an automated payroll system. They computed salaries by manually encoding records using Microsoft Excel. Problems were encountered such as dishonesty in time keeping of the employees and difficulty in computing the company's payroll. The company also encountered problems in managing employee records such as finding or updating records.

With these problems, the proponents developed a Network-Based Payroll System with Biometrics Technology specifically designed for Corazon Zabala Company. The purposes of the system are for easier generation of the company's payroll and for easier management of employee records.

The proponents observed and interviewed employees to gain information. The proponents used the V Model, a variation of the waterfall model, in developing the system. The proponents also used the Data Flow Diagram to map the company's processes and to understand and analyze the different activities and processes in the company. The proponents used an Entity-Relationship diagram to illustrate the relationships among the different entities in the company.

Microsoft Visual VB .NET, an object-oriented computer programming language, and Microsoft Ms Access, a database management system from Microsoft, were used in developing the system. The system used fingerprint recognition, which is the automated method of verifying a match between two human fingerprints. It automated the computation of the employees' attendance based on their records

through their log-in and log-out time. It also minimized miscalculations and prevented forgery and tampered data. The system had maintenance function to easily edit and update records. The system also featured a back-up and recovery function to have a copy and be able to recover important files. The system generated reports such as payslips, payroll summary, bank, and remittances reports using Crystal Reports.

The proponents concluded that the automation of payroll process is necessary for Corazon Zabala Company due to the many loads their payroll process consists. The proponents also recommended the continuous implementation of the proposed system.