WEB-BASED DISASTER RISK REDUCTION AND MANAGEMENT ASSISTANCE SYSTEM FOR THE CDRRMO (CITY DISASTER RISK REDUCTION AND MANAGEMENT OFFICE) OF ILOILO CITY

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By
Karina Inovah Marie Amigo
Neimark Braga
Ian Joseph Juarez
Sherwin Dane Zauro Haro
Sherah Lou Deduro
Charles Botavara

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ABSTRACT

Database construction and maintenance has evolved into one of the most critical aspects of the day-to-day operations of the modern business company especially as the world completes its transition into the digital age. The protection of data and information has never been more tenuous than it is today: the faster speed which humans now transmit information demands that the repositories for these data and people handling them keep up with the pace and yield safe, reliable performances in the act of maintaining data integrity. This study was created to help spur this process through the use of a web-based system.

The Web-Based Disaster Risk Reduction and Management Assistance System use a variety of tools to assist the staff operating in the office of City Disaster Risk Reduction Management (CDRRM) and other affiliates involved in its daily operations. The system was intended to be used as a tool in storing and presenting disaster-related statistics, becoming a web-based repository of information pertaining disasters. As such, concepts that were integrated are as follows: Reporting, User Evaluation, Mapping, and Data Mining. The researchers made extensive use of the Prototyping Model. PHP was used as the system's backend whilst using MySQL as the system's database. HTML, CSS, and JavaScript were used as its frontend.

By creating different modules for the City Disaster Risk Reduction Management Office (CDRRMO) and its affiliates, tasks such as report submission, barangay profiling, disaster mapping, etc. can now be done with more efficiency as per the benefit of an online environment.