

**California State University San Bernardino
School of Computer Science & Engineering
Masters Project Presentation**

Date/Time

February 9th, 2022 (Wednesday)/2:30PM

Location

Dr. Haiyan Qiao

<https://csusb.zoom.us/j/84111838937>

Topic

**College of Education Legacy FileMaker Extraction and End-User Database
Development**

Candidate

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Advisor

Committee Members

Dr. Ernesto Gomez

Dr. Marita Mahoney

Mrs. Yen-Hsi Chiang

Abstract

The College of Education (CoE) at the California State University San Bernardino (CSUSB) developed a system to keep track of both state and national accreditation requirements using FileMaker 5, a database system. This accreditation data is crucial for reporting and record-keeping for the CSU Chancellor's Office as well as the State of California. However, the database system was developed several decades ago and software support has long since been dropped, causing the CoE's legacy accreditation data to be at risk of being lost should the software or hardware suffer permanent failure. The purpose of this project was to perform extraction of the raw data in this legacy system, develop a new database to clean and house this raw data, as well as develop a newer and more efficient end-user interface for the CoE to retrieve the data. Raw data analysis, consultation, and extraction was performed first and was followed by database design and development using Oracle SQL and PL/SQL. At the same time, the end-user interface and reporting tool was developed using Oracle PeopleSoft. Through completion of this project, the sets of critical data from FileMaker have successfully been cleaned and imported to the new Oracle database. The database successfully connects to the CSUSB PeopleSoft service and allows for authorized end-users to generate reports for the CoE's requirements. This presentation will cover the project's database and PeopleSoft structure and design as well as showcasing how an end-user may interact with the data reporting interface.