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Software Development I

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### Project 2 Proposal

For my semester-long project, I will be creating a College Student Database Management/Information System. An organized and systematic database is essential for all colleges, universities, and organizations. I will specifically be targeting college campuses, like Marist. In a college environment, there are many departments of administration for the maintenance of college information and student databases. These departments provide various records regarding students. Most of these track records need to maintain information about the students. This information could be the general details like student name, address, contact information, performance, attendance, and other attributes, or specific information related to departments like collection of data.

All the modules in college administration are interdependent and are maintained manually by workers in that specific department. This means that they need to be automatized and centralized as information from one module will be needed by other modules.

An example of how the system works is that when a student needs his course completion certificate, the system would need to check many details about the student such as his name, student ID number, academic year of study, classes the student took, and many other facets. The

system would need to contact all the modules that are once, department and examination and result of students.

I plan to observe existing student database systems implemented in current college campuses (such as iLearn or MyMarist) and improve upon its existing features and aspects.

Administrators using the system will find that the process of recording and retrieving students' information and managing their classes, including taking attendance, will be much easier and less difficult. Overall, this project aims to enhance efficiency and at the same time maintain information accurateness. Features and improvement that allow achievement to this goal will be demonstrated throughout this project.

Another feature I plan to add is a more user-friendly interface that will be easy to navigate. I am planning on utilizing the powerful database management, data retrieval, and data manipulation. I will provide more ease for managing the data than manually maintaining the documents. This project will be useful for saving valuable time and reduces the frustrations that current student database systems currently possess.