

ABSTRACT

DATABASE IMPLEMENTATION FOR FINES MANAGEMENT  
OF STUDENT ORGANIZATION

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The Delta Upsilon fraternity at California Polytechnic State University in San Luis Obispo, California, currently has no formal system for fines management. This facilitated over \$9000 in uncollected dues and fines during the 2016-17 academic year. The executive board have difficult access to accurate financial information and general members have difficult access to personal fines information. This project aims to design, implement, and test a fines management system to reduce the annual amount of unpaid dues by \$4500. The system is to be cost-effective, which will be measured as a decrease in uncollected dues. The system will be beneficial to the general members of the organization, which will be measured in an increase in member satisfaction through defined performance indexes. The determined solution is to design a website connected to a database to store fines information and adopt the system within the organization. The database features individual logins for each member, individual financial information for general members, and specific roles for executive board members with access to executive controls and previous records for internal auditing.

The website and database provide a standardized source of fines information for both members and executive officers. Members tested the new system and determined it is significantly more satisfying to use and more easily provides fines information. The website is clear for members to navigate and interpret information. The website functions flawlessly in all functions including database interaction and login security. The effectiveness of the system will be thoroughly measured during the 2018-2019 academic year, as the organization adopted the system in May 2018. The estimated annual cost of the cloud hosting service is \$100. The new fines management system will reduce the amount of unpaid fines by \$4500, thus saving the organization \$4400.