Title: Lambda Chi Alpha Webpage Creation
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Abstract

The design group set out to create a new website for the Valparaiso chapter of Lambda Chi Alpha. This was necessary as the older website was outdated, lacked accessibility per W3C guidelines, and was very limited in the functions that it set out to perform. The goal of this new website is to allow users to have access to all information on the fraternity chapter in a visually pleasing and well organized manner. A sub-goal of this group's creation was to allow a smooth upkeep process so that the website would never be out of date. The group focused computer science and researching abilities to formulate a website that was functional and in compliance with governmental guidelines. In order to fulfill the goal, the group used an iterative approach with an emphasis on coding with shared branches. For the client side services, the group used angular API and for backend services, Google's Firebase was used. CRUD operations (create, read, update, delete) were used to implement a persistent storage functionality for the website. The group researched the web content accessibility guidelines from the World Wide Web Consortium to ensure that the website followed all accessibility guidelines. This research also allowed for the creation of a website that was visually and aesthetically pleasing to the eyes. In the end, the website was created using the computer science skills of the group and it is not only

fully functional, but it runs better than the previous website and in compliance with all accessibility standards.