

Executive Summary

The UTA ACM Website is dedicated to UTA's ACM chapter. Its purpose is to provide visitors, chapter members, and officers with a means to post ACM news, events, and information about the chapter. Chapter members can register for the website to receive updates about upcoming events. Members can also upload and download resources to the website as an incentive to join the chapter. Some of the resources include resumes that companies can download, class notes and lectures for studying purposes, and blogs posted by other members. Other features include a calendar scheduling out events, email notifications, and registration into the chapter as a future requirement.

Demo Screenshots



Requirements

Below are listed the major requirements for the website:

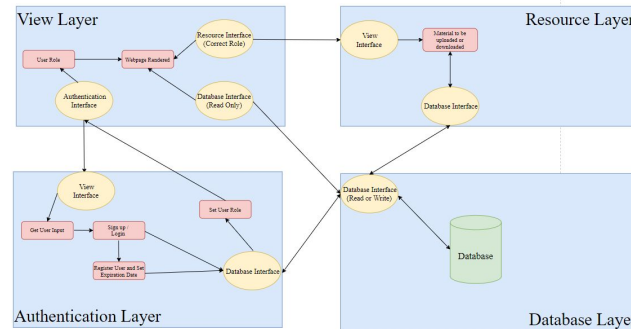
- The website will have a blog-like structure, allowing ACM officers to create posts on the main pages and paid members to post on their profile pages.
- The website will have Home, News, About, and Login pages.
- Four levels of user roles will be supported - unpaid, paid member, ACM officer, and administrator.
- Email and calendar features will be supported to give users notifications of events.
- Website must look professional with an ACM theme.
- The website will be hosted on UTA's servers, so the code must conform to their standards.
- The website will be supported on Chromium browsers and will support mobile users.

Background

The current ACM website for the University of Texas at Arlington contains a web page with little functionality. The website is very limited and has outdated information. The new website will make changes to the current information and will allow the website owner (UTA's ACM Chapter) to make changes to the page easily. Currently the log-in, signup, and most clickable options do not work. The new website will include those features along with new functionalities that will help members/officers in various ways. Since the current UTA ACM Website has not been serving its purpose.

Architectural Design

The Architectural Design was based around four major requirements. These requirements include how the website will render, how resources will be stored, how user authentication works, and the database. We separated these four requirements when mapping out the architecture of the website. The way the website renders is based on the user logged in and the available resources to that user. The user may also make changes to the website as well if they are given permission. All the layers access the database to retrieve and store information.



Conclusion

Our goal for this project was to create a website that would be easy and useful for the ACM Chapter to use. The current Chapter website needs to be more interactive with members and officers both. We want officers to be able to easily edit and post content to be shared. We also want visitors and members to have a single place where they can get news and event updates about the chapter. It would also be useful for members to have a place where they can download class notes and lectures other students took, get email notifications about the chapter, and upload items to their profile such as resumes and blogs.

References