



Development of a Collaborative Environment for a New Hampshire Agency

Maxwell Sullivan | David Bitman | Johnson Trinh | William Clark

Advisor: Scott Valcourt



Introduction

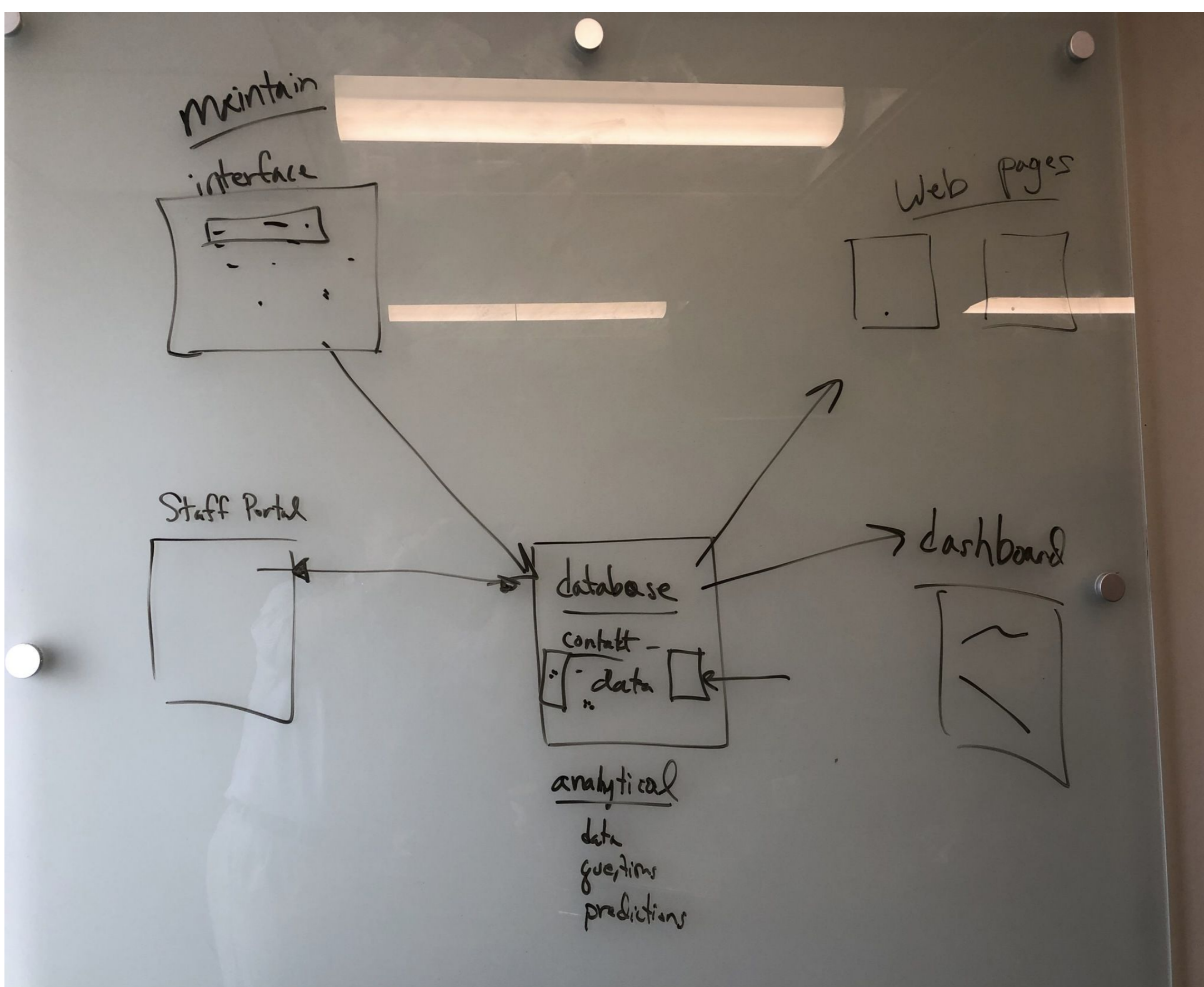
Goal:

To create a database, a front-end interface, and a developing site to handle the Department of Cultural and Natural Resources (DNCR) large network of members, groups, councils, and more.

Requirements:

This site will contain sensitive information so our environment needs to be able to keep track of users permissions to only allow privileged users access to sensitive content.

Design



Database - back-end of the application that contains all employee data

Front-end Interface - Allow permitted users to add, delete, and edit existing data

Dashboard/Staff Portal - Allows for employees to communicate with one another

Website - Will be developed to display all the data in real time

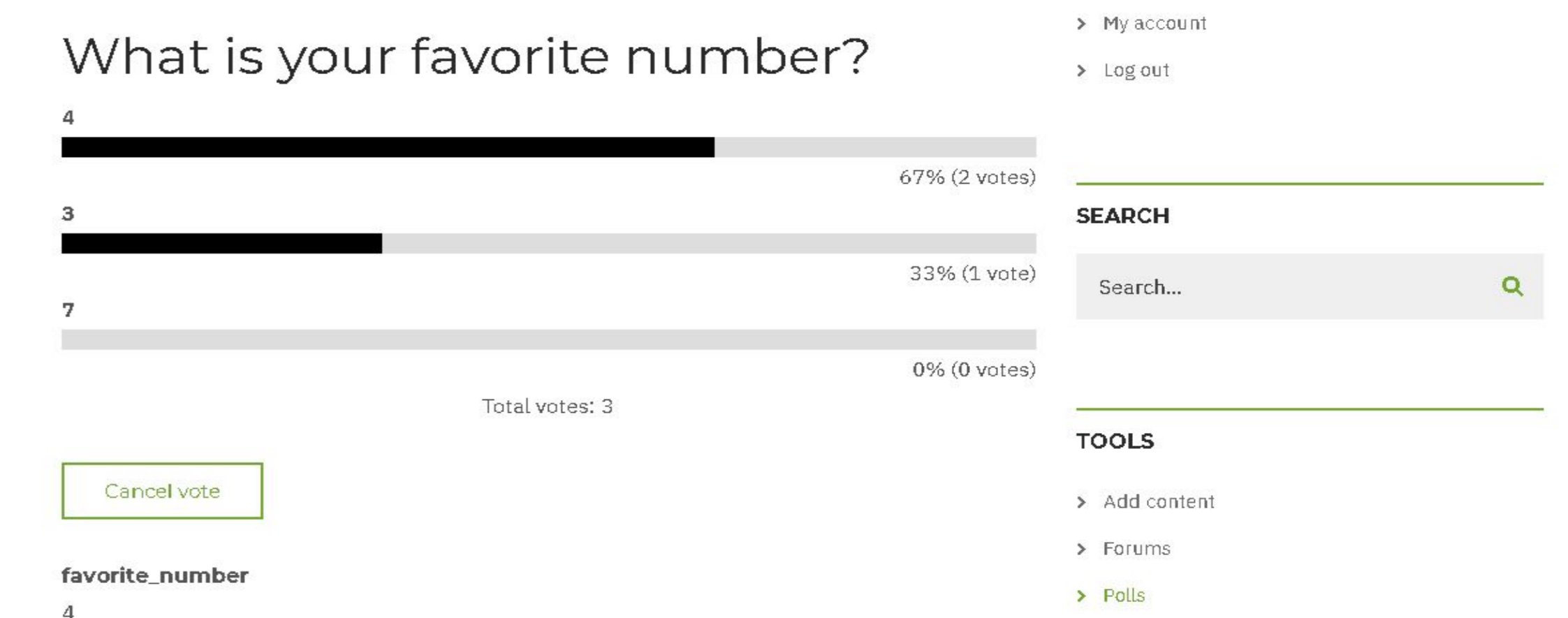
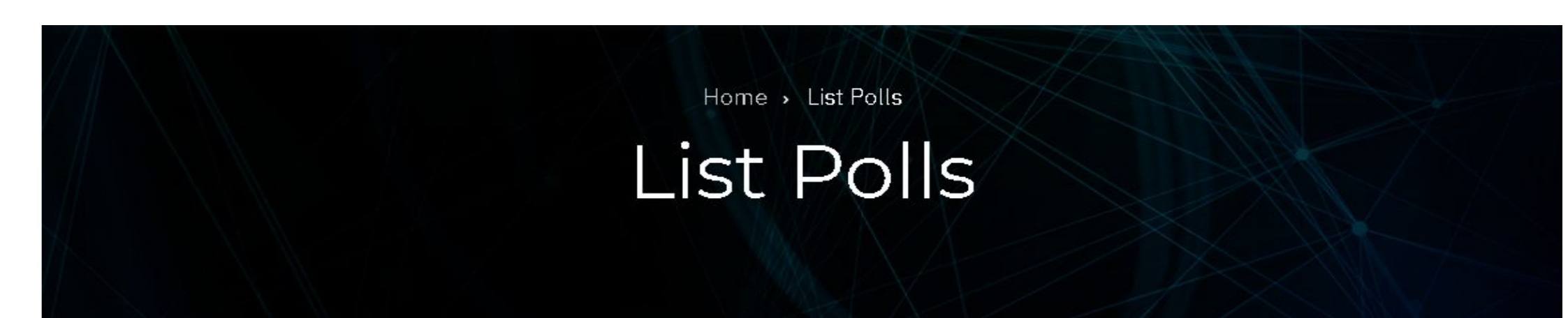
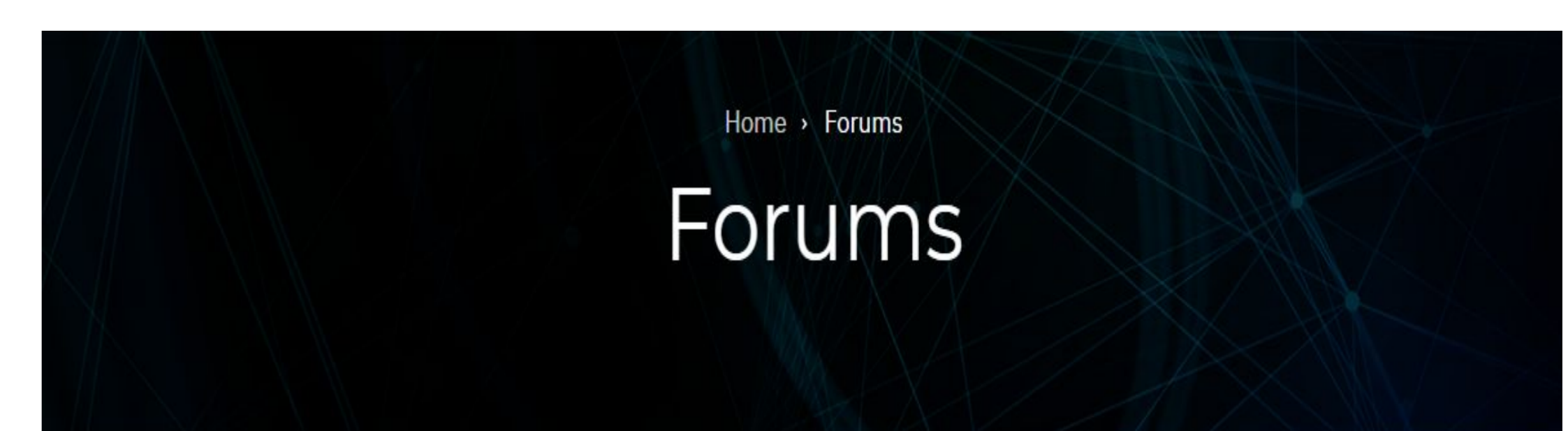
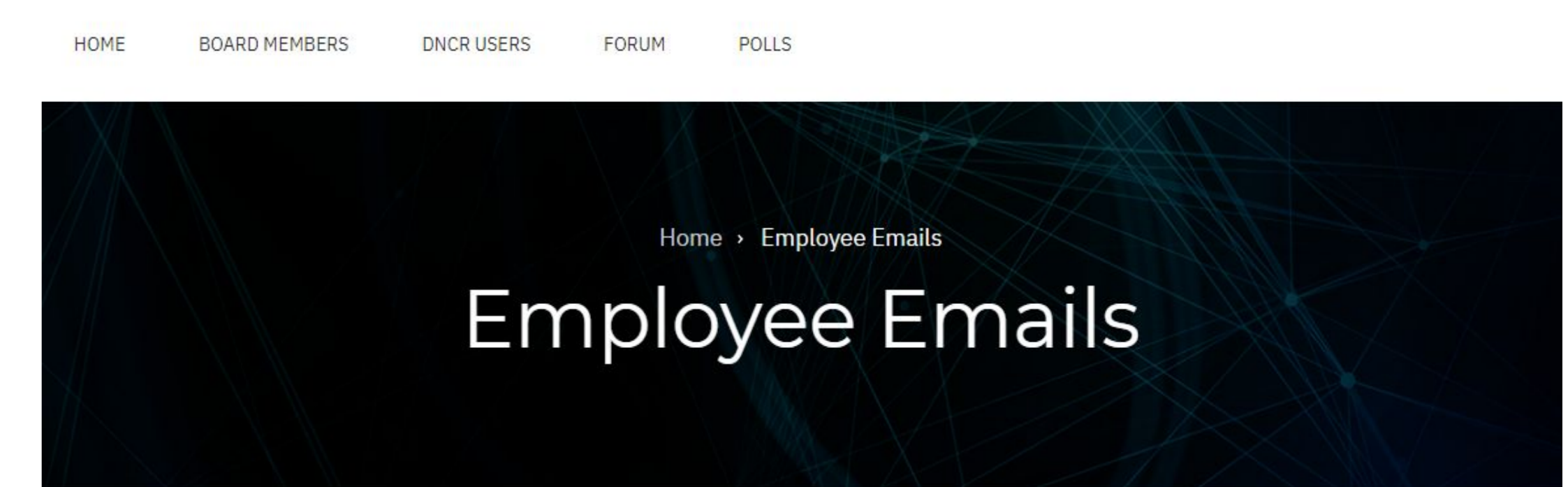
Drupal

Drupal is a free and simple open-source web content management system that is used to build many websites. The Drupal framework was chosen because of its flexibility. It has many tools that allows you to create the versatile site with all the features that DNCR wanted. Through the use of Drupal, DNCR will be able to access user information, create polls for opinions, and make forum posts to stay actively engaged with their departments. Additionally, Drupal allows for a simple front-end interface to easily edit the database. On top of all this, the state departments of NH were looking to design their websites using Drupal moving forward. This means that the state will have a much easier time implementing our product into their current system.

Results/Analysis

List of key features:

- Simplistic and beautiful site design
- Non-access of information unless logged in
- Database of employee data
- Ability to search employees by board and/or zip code
- Ability to create polls to ask questions
- Ability to participate in forum posts
- Ability to separate forums based on organizations
- Ability to revamp the site using Drupal's easy tools



Future Workings

- The Drupal site will allow for DNCR to continue to add and edit any features.
- New modules may be added to the Drupal environment for DNCR's future needs.
- DNCR is slowly implementing Drupal for their webpages so integrating this collaborative environment will make it easy for them to add these features.
- DNCR has their own mailing server which they can use to implement a convenient way to send out emails to their employees.

