ONLINE VOLUNTEER MANAGEMENT FOR MATH DAY

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MOTIVATION
Math Day is a major outreach and recruiting event organized by UNL’s Center for Science, Mathematics, & Computer Education (CSMCE) and Math Department. It brings over 1,500 high school students from across Nebraska to compete for scholarships to UNL.

The Math Day manager recruits over 300 volunteers to run the day-long event. She collects volunteer personal and contact information, time availability, signed legal forms, etc., then assigns each volunteer to one or more tasks depending on their availability and status (undergraduate student, graduate student, staff member, etc.). The amount of information to handle is staggering.

Our goal is to provide a flexible and robust online system to support data collection (task specifications and volunteer applications), volunteer management, and task assignment. The system was first deployed in Sept. 2017.

ARCHITECTURE

DATABASE
The information is stored in a secure database.

USER SIGN-UP
Below is the home page of the website. It allows existing users to login and new users to register on the site.

To register, users must enter their name, phone number, email address, and password.

An email is then sent to the user to confirm their email address and activate their account.

Once users enter their preferences, their application is complete. It can be updated by the user at any time.

ADMIN FUNCTIONS
Several admin pages are provided for the Math Day manager to review applications and other data.

The Activities page allows the manager to enter new tasks and activities, specifying start/end times, the number of volunteers needed, status required, etc.

All users are required to read and sign a Youth Activities Safety Policy (or YASP) form.

The Recruiters page shows the manager the list of Math faculty recruiters.

Note: Data is sanitized to preserve privacy.

The Volunteers page allows the manager to view all of the applications for the current year in order to assist in assigning volunteers to tasks.

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