Our Group – New / Emerging Technologies

Web programming is a constantly evolving thing, so it can be difficult to keep track of the most recent and relevant technologies that get introduced. For our project, we are using two of these types of technologies: CAPTCHA, and responsive web design.

The project will be using reCAPTCHA by Google in order to help protect against bots and other malicious software from creating multiple accounts by validating that the user is indeed human. Many high-profile websites use CAPTCHA with their account creation systems. This will keep our system more secure in order to avoid any possible problems. CAPTCHA has many major advantages that could help us secure our web application. One of them is to protect the registration system, specially it is a free registration to just make sure that all the registrations are done by real people and not programs or bots. Another point will be protecting users’ emails. When it comes down to the users, then they will our first priority, so CAPTCHA is here to just prevent and hacking problems that could happen.

Responsive web design has remained an increasing trend for years. Responsive web design is about making the design of the application respond to the user’s environment. In order to achieve this for our project, we plan to use Bootstrap to assist in making our interface adaptable to almost all browsers. Bootstrap is a front-end framework, which will allow us to develop the web application along with the web design languages HTML, CSS, and JavaScript. The choice of bootstrap over other similar software comes from its extensive documentation and fits the requirements of our interface design well. Moreover, it is easy to use, which will allow us to consume more time to end up with meeting our goals for the project. Responsiveness is an important point, since we see a new mobile device probably every six months, and Ajax is also used to help refreshing the view of the application, so it is easy to be integrated.