**Project Name: CrAccess**

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CrAccess is a crowdsourcing system that helps campus officials to find accessibility issues on campus. The website is intended for Virginia Tech, however, with a few revisions it can be used for other universities. Virginia Tech’s beautiful campus has many accessibility issues, some are permanent, old and need construction work, and some only happen in specific cases. Also, new issues arise every day with the amount of the construction the campus is going through. There are ways to let officials of school know about these issues (calling or visiting them in person), however, they are time-consuming and hard to do. An online system utilizes the power of crowdsourcing to help our campus become completely accessible. Accessibility issues include a wide range of issues such as lack of ramps, storm water management problems that interrupt wheelchair use in cases of rain and less complicated cases such as fragmented walkways. This project aims to build a web application that helps and encourages users on campus to report these issues.

The intended users are mostly students. However, campus gets visited by many other users and all who visit the campus could make an account and report issues. Students have the option of logging in using their PID (or other identifications, if this web application is used for other universities).

To encourage students and other users to report valid issues, there is a reward system in the website. Users get 500 points for each accessibility issue that they report and is accepted as an issue by the admin of the website. When the points pile up, they can later redeem them and use them to shop at campus restaurants and shops.

This web app includes a few key features; a page to report new issues, a page to see a map of all reported issues (pinned in a map with the option of clicking on them and seeing more details), a page to see recently reported issues, and the sign in/my account page.

Reporting an issue is an easy process in a few steps: 1. Putting an address 2. Uploading a few pictures 3. Writing a short and a detailed description.

Users can also report issues as solved. Each user can only report a solved issue once and each of these reports get recorded in a column in the database and also shows next to the issue itself. The admin can decide to delete an issue if it has been reported solved for more than a certain number of times. In addition to delete, admins can also edit an issue in list view without going to a new page.

Another feature of the issue viewer in detail is the map powered by the Google Maps service. Every time a user reports an issue and puts an address in, the application uses Google’s Geocoding service to map the address to a latitude, longitude pair which is then pinned onto the map. Therefore, it is easy for the users to visualize where the accessibility issue is located. Also, users can see the map in a bigger size by clicking on the address.

We tried going above and beyond by designing a few more Ajax-based solution to dynamically and asynchronously exchange data within the app than required by the assignment since we thought they can be necessary for functions of the idea behind this system.

The base URL is http://localhost/cs5774/project4/craccess The folder after being extracted should get copied to htdocs in Application folder in XAMMP.

The username and password of admin for the website (added using a table named ‘user’ in database ‘wheels’) is:

Username: tesla

Password: 1234

This account lets you add (report in the website), report solved issues, edit and delete all of the accessibility issues that can be found in the website.

There is another user with regular privileges (non-admin):

Username: nav1212

Password: 1234

This account is able to only report new issues and report solved issues, and edit and delete issues that has been reported by the user itself.

The URL for the website is:

http://ec2-35-161-38-193.us-west-2.compute.amazonaws.com/craccess/

Our next and last step will be implementing the score system to let users get awarded for each valid issue they report.