

Inventory & Project Management

ELSI Report

Prepare a report on the ethics, security, legal, and social impact of your technology/project. Address security, privacy, professional, ethical, legal, and social issues, and how you addressed those throughout the project from design through development and any eventual deployment.

For each issue/area, identify and articulate the issue and the parties involved. Assess the impact of potential solutions/resolutions and the related consequences to address the concern. Finally, explore how this issue may affect your personal and professional lives.

Ethical Issues

- Security: We made sure that no one that has access to the software can inject their own SQL code to modify data in the database. We also used encrypted SQL queries to limit the possibility of someone accessing the data that's not supposed to. Also, the server connection was originally hardcoded, and it was transferred to a configuration file for increased security.
- Legal: We used the Grover Machine Company logo in our application, but we don't anticipate any legal concerns because we gained their permission beforehand and our application is specifically designed for that company.
- Ethical: We were trusted with information from Grover Machine Company to put in the database, our team has to honor professional standards to not disclose it. We designed the interface to be accessible and easy to work with.
- Social: We made sure to respect a right to privacy by making sure that Grover Machine Company's data is protected and can't easily be accessed by unauthorized users. Also, by partaking in this project, we are helping a small business improve their business model at no cost to them.
- Privacy: We haven't used any personal data for this project, so we don't foresee any privacy issues. We also have put in some safeguards to make sure outsiders can't easily access this data.
- Professional: We plan to continue supporting the product as it's deployed into the workplace, updating it and fixing any new issues or communicating with a new development team if necessary.

Ethical Issues and Resolutions

- Protecting the customer's machine data by keeping it to ourselves, encrypting SQL queries from the program so that data can't be accessed by someone on the network,

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and storing all data in an AWS database, a trusted cloud database that will protect the data.

- We made sure that the login information for the database was not stored in the application itself, but was stored in a configuration file outside of the program to keep those credentials safe.

Impact on personal or professional lives

- Our professional careers are boosted by having a complete product that we can put on our resume and show to any future employers.
- There is no real personal impact on our lives, as none of us are truly involved in the company.