Economic Costs:

- Arduino compatible starter kit: $40
- Wheels and motors for circuit board: $20
- High sensitivity microphones for sensing sound: $10
- Total costs: $70

Time:

- Building the robot beforehand will take extra time, but the library itself should not take more time than what we have, as long as everything goes as planned

Scope:

- Both team members agree on the scope of the project and understand what contributions need to be made

Professional/Technical:

- Technical expertise outside of our own knowledge should not be required for this project

Ethical and Legal:

- This project to my knowledge does not have an ethical impact on anyone. There should also be no legal issues regarding our project

Security:

- The development and testing of our code will be done offline, so security shouldn't be an issue

Social:

- The library may eventually be used as a public service for military use or to help people who are hard of hearing
- As of right now we have not drawn up plans to put it into production
- We will however been publishing the finished code

Environmental:

- There are limitations where the robot can be used
- Some environments may harm it
- If the robot itself is equipped for such environments, the library may be used wherever needed

Diversity and Cultural:

- Since the library will be based on how loud the noises are and what they represent instead of language, there shouldn't be any cultural constraints on our project