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CS383 Group Project

ETHICS

for AllerGuard app

version 1.0

Prepared by Group G2



Ethics were taken into consideration while designing the AllerGuard app

1. Accuracy and Quality

- Principle: Product, Public - We strive for high quality.
- Explanation: As a development team, we are dedicated to delivering an AllerGuard app that exhibits exceptional accuracy in detecting allergens and providing precise information. We adhere to rigorous testing processes, applying industry best practices and following established standards to ensure that the app's allergen detection algorithms are reliable and produce accurate results. By striving for high quality, we aim to instill trust in our users and provide them with a valuable tool that enhances their safety and well-being.

2. Energy Efficiency

- Principle: Product, Public - Software engineers shall ensure that their products and related modifications meet the highest professional standards possible, including minimizing energy consumption.
- Explanation: The AllerGuard app embodies the principle of product quality by prioritizing energy efficiency. Through optimized algorithms and energy-saving techniques, the app is designed to minimize its impact on device battery life, aiming to consume no more than 1% of the device battery per hour. By focusing on energy efficiency, we enhance the user experience, prolong device battery life, and promote responsible resource usage, aligning with environmental sustainability goals.

3. User Safety

- Principle: Public - We approve software only if it is safe, meets specifications, and passes appropriate tests.
- Explanation: At our core, we prioritize the safety of our users. We recognize the potential health risks associated with allergen exposure and take significant responsibility in ensuring that the AllerGuard app is a reliable and safe tool. We conduct thorough testing and validation processes to verify that the app accurately identifies allergens and provides reliable information. We adhere to established safety standards and only approve the software for release when it meets stringent criteria. By upholding this principle, we aim to protect our users from potential allergic reactions and provide them with peace of mind when using our app.

4. Transparency and Accountability

- Principle: Management - We ensure good management for any project on which we work.
- Explanation: As a development team, we value transparency and accountability in our work. We establish clear and open communication channels with our clients, users, and other stakeholders. We provide regular updates on project progress, address concerns and feedback in a timely manner, and take ownership of our work. By fostering an environment of transparency, we build trust with our stakeholders, ensuring that the AllerGuard app is managed effectively and ethically. We hold ourselves accountable for delivering a high-quality product that meets the needs and expectations of our clients and users.

5. Continuous Learning and Professional Development

- Principle: Self, Colleagues - We participate in lifelong learning regarding the practice of our profession.
- Explanation: As a development team, we embrace a culture of continuous learning and professional development. We actively seek opportunities to enhance our knowledge and skills in areas such as allergen detection technology, software engineering best practices, and industry standards. By staying updated with the latest advancements, we ensure that the AllerGuard app incorporates the most effective and innovative solutions. Our commitment to continuous learning enables us to deliver a cutting-edge product that reflects the evolving needs of our users while upholding the highest standards of our profession.

6. Volunteer Professional Skills for Good Causes

- Principle: Self, Public - Software engineers can be encouraged to volunteer professional skills for good causes.
- Explanation: Our team seeks to achieve the public interest of people with food allergies by providing an application that assists users in identifying potential allergens in products. By volunteering our professional skills for this cause, we aim to empower individuals with allergies to make informed choices regarding their purchases and consumption. We dedicate our expertise to develop and improve the AllerGuard app, contributing to the well-being and safety of those with food allergies.

7. Confidentiality and Data Security

- Principle: Product, Public - We keep private or confidential information gained in our professional work.
- Explanation: Ensuring the users' trust is paramount to us. We prioritize secure and reliable storage of user data, including allergen information, contact numbers, region, email, and passwords. Access to sensitive data is strictly restricted to authorized users only, preventing unauthorized access and ensuring the confidentiality and security of user information. By adhering to this principle, we maintain the privacy and safeguard the personal data of our users, promoting their confidence in using the AllerGuard app.