Ayman Ibne Hakim, ID- 2103364042
Chowdhury Nafis Faiyaz, ID- 1931841642

Ethical and Professional Responsibility:

Our software has the potential to provide significant benefits to patients, such as improved access to their medical records, the ability to share their records with doctors more easily, and the convenience of scheduling appointments and booking hospitals online. However, it is important to be aware of the ethical and professional responsibilities involved in developing and using software that stores and shares sensitive medical data. We have made sure that our software aligns with the ACM Code of Ethics and Professional Conduct.

Principle 1.2: Avoid Harm. Our software uses a variety of security measures to protect user data, such as encryption, Keybase, IPFS, and blockchain. However, no security system is perfect. There is always a risk that data could be compromised, either through a security vulnerability in the software or through a social engineering attack.

To lower the risk of harm, it is important to be transparent with users about the risks involved and to provide them with tools to control their own data. Therefore, we are allowing users to choose who can view their documents with the ability to revoke access anytime.

Principle 1.6: Respect Privacy. This principle implies that computing professionals should collect and use data in a way that is fair and transparent. While registering a patient, we ask the patient's consent to store their records and share them with doctors.

Principle 1.7: Honor Confidentiality. Our software allows the doctor/ hospital to view a patient's file only after being granted by the patient themselves. There is no way for anyone to view someone else's file without permission. This shows that we honor confidentiality.

Principle 2.1: Strive to achieve high quality in both the processes and products of professional work. We are using a variety of technologies to protect user data and make our software secure and reliable. This shows that we are committed to developing high-quality software.

Principle 2.4: Communicate professionally and honestly with others. We are transparent with users about the risks involved in using our software and how their data will be used. This shows that we are committed to communicating honestly with our users.

Principle 2.5: Consider potential impacts of computing work on society. We have considered the potential impacts of our software on the privacy and security of user data, as well as the

impact on the healthcare system as a whole. This shows that we are committed to developing software that benefits society.

Principle 2.9: Design and implement systems that are robustly and usably secure. Security is one of our essential concerns as we are dealing with confidential data. Our system is built using standard technologies that ensure high security.