

3ala Feen?

Name	Email	Id
AlaaElddin Ibrahim said	aladdin.salameh.2023@aiu.edu.eg	22101463
Rana HossamELDin Mohamed	rana.moussa.2023@aiu.edu.eg	22101478
Muhammed Mustafa Muhammed Farrag	mohamed.mustafa.2023@aiu.edu.eg	22101336
Ahmed Fathy Ahmed	ahmed.sweed.2023@Aiu.edu.eg	22101981
Noureen Yasser Hassan Muhammed	noureen.nuhammed.2023@aiu.edu.eg	22101109

Ethics Report

1. For the development of the “3ala Feen?” transportation application, the following software ethics principles were adopted:

1.1 Confidentiality: All sensitive data from users, clients and drivers (such as personal details and fleet details) will remain protected and confidential. The team ensures that no unauthorized sharing or usage occurs.

1.2 Competence: The team members should only undertake tasks according to their level of competence, they should avoid taking on work which is beyond their current abilities.

1.3 Public Interest: The app is designed to enhance public welfare by improving transportation efficiency, safety. Reducing traffic, optimizing routes, and enhancing safety contribute to public welfare, while also following all local laws and making sure it's accessible to everyone who needs it.

1.4 Product Quality: Comprehensive testing methods ensure the app meets high standards. We've focused on making it reliable (so it works when you need it), secure (so your data is safe), and easy to use.

1.5 Judgment: Decisions regarding data handling (privacy, security), algorithm design (route optimization), and driver monitoring require careful professional judgment by the team members.

1.6 Self: The project's scope, including integrations and scalability, implies a commitment to lifelong learning and staying current with technology and best practices.

1.7 Colleagues: Focuses on fairness, respect, and support within the team members, which include respectful communication and collaboration, sharing knowledge and providing support.

2. Application of Recognized Ethics Principles (with Alternatives and Consequences):

2.1 Confidentiality and Privacy Handling:

2.1.1 Ethical Alternatives:

- **Option 1:** Storing user data unencrypted to save costs.
- **Option 2:** Implement encryptions for all sensitive user and system data.

2.1.2 Consequence of **Option 1:** Increased risk of breaches and user trust violations.

2.1.3 Chosen Action: Implement robust encryption and secure access controls. Sensitive data like GPS locations, payments, and trip histories are encrypted.

2.2 Public Interest:

2.2.1 Ethical Alternatives:

- **Option 1:** Focus on profits by limiting accessibility and features.
- **Option 2:** Design for inclusivity, incorporating features like multilingual support and real-time alerts.

2.2.2 Consequence of **Option 1:** Excludes certain segments of the population (e.g., non-native speakers), creates a negative public image, which leads to disregard for the public interest and a prioritization of profit over public welfare.

2.2.3 Chosen Action: Enhanced accessibility through multilingual options, user-friendly interfaces, and compliance with safety laws.

2.3 Product Quality:

2.3.1 Ethical Alternatives:

- **Option 1:** Release the app quickly with basic functionality.
- **Option 2:** Conduct comprehensive testing for features like live tracking, secure payments and efficient route planning.

2.3.2 Consequence of **Option 1:** Increased risk of bugs poor user experience, potential harm to users (e.g., inaccurate tracking leading to missed appointments or safety issues).

This demonstrates a lack of professional competence and disregard for product quality.

2.3.3 Chosen Action: Conducted detailed usability and functional tests as outlined in the report's testing requirements (Test Case TC-01, TC-06 for data security).

2.4 Judgment:

2.4.1 Ethical Alternatives:

- **Option 1:** Make quick decisions about data handling, algorithms, and monitoring without careful consideration of ethical implications.
- **Option 2:** Carefully consider the ethical implications of all decisions related to data handling, algorithm design, and driver monitoring, prioritizing user privacy, fairness, and transparency.

2.4.2 Consequence of **Option 1:** Potential for privacy breaches, biased algorithms leading to unfair outcomes, inappropriate or intrusive monitoring practices. This demonstrates a lack of professional judgment and ethical awareness.

2.4.3 Chosen Action: Employed careful judgment in all decisions related to data handling (implementing strong encryption and clear privacy policies) and driver monitoring (using data for constructive feedback and ensuring transparency).

2.5 Self:

2.5.1 Ethical Alternatives:

- **Option 1:** Rely on existing knowledge and skills without seeking to learn new technologies or best practices relevant to the project.
- **Option 2:** Commit to continuous learning and professional development, staying up-to-date with relevant technologies, best practices, and ethical guidelines.

2.5.2 Consequence of **Option 1:** The project may become outdated or inefficient or introduce security weaknesses due to a lack of current knowledge. This demonstrates a lack of commitment to professional development and could negatively impact the project's success.

2.5.3 Chosen Action: Demonstrated a commitment to lifelong learning by researching and implementing current best practices in areas such as secure coding and data privacy. This involved exploring new technologies and frameworks relevant to the project's scope (integrations, scalability).

2.6 Colleagues:

2.6.1 Ethical Alternatives:

- **Option 1:** Develop a competitive or individualistic work environment with poor communication and limited support among team members.

- **Option 2:** Create a collaborative and supportive work environment characterized by respectful communication, open knowledge sharing, and mutual support among team members.

2.6.2 Consequence of **Option 1:** Reduced team morale, decreased productivity, potential conflicts, lack of knowledge sharing, and a higher risk of errors or oversights.

2.6.3 Chosen Action: Developed a positive and ethical team environment by promoting respectful communication, open knowledge sharing, and mutual support. This included establishing clear communication groups, conducting regular team meetings, and implementing progress review processes to ensure collaboration and knowledge sharing.

3. References used:

- 3.1 CSE251 Lecture 1 Introduction.
- 3.2 Best Project.
- 3.3 Used Chatgpt in rephrasing some words.