Statement of Work

Version: 1.0
Date: 10/03/2025
Description: Initial release of the document
Name of Project: AI + Human Exploration of Daily Moral Decisions

Team Members:

- Shutong Li
- Zihao Li
- Fei Li
- Yu Ma
- Lingziluo Xiong
- Zehua Kong
- Zhenhao Li

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Background

In recent years, the intersection of artificial intelligence (AI) and ethics has emerged as a critical area of research. Projects such as Ask Delphi and the Moral Machine Experiment have made significant strides in understanding how AI can be aligned with human moral values. However, these projects often focus on idealized or extreme moral dilemmas, such as the trolley problem, which may not fully capture the complexity of everyday moral decision-making.

Project Description

The "AI + Human Exploration of Daily Moral Decisions" project aims to bridge this gap by focusing on the nuances of everyday moral dilemmas. By leveraging AI and human collaboration, the project seeks to provide a more comprehensive understanding of how people navigate moral decisions in their daily lives. The project will involve the development of an interactive Moral Profile Website, which aims to attract users to the large-scale Opinion Survey Website and to present some of the research findings. The Moral Profile Website will assist humans in appreciating the rich and nuanced aspects of moral life. The Opinion Survey Website will explore whether individuals are willing to change their opinions under the influence of others.

In this semester, we are going to improve the user experience.

Target User

The primary target users for the "AI + Human Exploration of Daily Moral Decisions" project are individuals interested in exploring moral dilemmas and contributing to the understanding of human moral decision-making. This includes:

General Public: People from various backgrounds who are curious about moral dilemmas and willing to engage with the interactive Moral Profile Website and participate in the Opinion Survey.

Researchers and Academics: Individuals in the fields of ethics, philosophy, psychology, and artificial intelligence who are interested in studying human moral decisions and the potential integration of AI in ethical reasoning.

Educators and Students: Teachers and students who can use the platform as a tool for education and discussion around moral and ethical issues.

Policy Makers: Individuals involved in policymaking who can use the insights gathered from the project to inform decisions on AI ethics and regulation.

The project aims to reach a diverse audience across different languages and countries to ensure a comprehensive understanding of global moral perspectives.

Develop Plan

Project Phases

- **Phase 1: Set Up**
    - **:** Complete SoW and other initial documentation, construct the Landing Site, and finalize team assignments. Begin UI design for the Moral Search Website. Set up the CI/CD environment and preliminary database. Familiar with the code repository.
    - **Timeline:** Week3 to Week5
    - **Responsibilities:**
        - Zhenhao Li and Zehua Kong: Overall project coordination, client communication and setup for the Landing Site.
        - Zilingluo Xiong, Fei Li, Yu Ma, Zihao Li and Shutong Li are going to familiarize themselves with this project and get ready to develop.
    - **Deliverables:** Completed environment setup, and CI/CD Scripts.
    - **Milestones:** Completion of the Landing Site, team assignments, and Moral Search Website design.

- **Phase 2: UI improves**
    - **Objective:** implement Survey Page, Game & game result page, set up API Document, Design Mobile UI
    - **Timeline:** Week5 to Week8
    - **Responsibilities:**
        - Zhenhao Li and Zehua Kong: Continual client communication and project refinement based on client feedback. Design API for project.
        - Yu Ma: Survey Website.
        - Shutong Li and Lingziluo Xiong: Continue UI/UX design.
        - Zihao Li and Fei Ma: Front-end development based on the Figma design.
    - **Deliverables:** Mobile page design, Deployed Survey page, and front-end implementation.

    - **Milestones:** Completion of UI design iterations for the Mobile access, implementation of Game Page/result page and Survey.

- **Phase 3: Muti-language and deployment**
    - **:** trying to implement the
    - **Timeline:** Week8 to Week12
    - **Responsibilities:**
        - Zhenhao Li: Ongoing client liaison, feedback integration, and project adjustments.
        - Lingziluo Xiong and Zehua Kong: Implement the multi-language support.
        - Shutong Li: Adjust UI/UX design from feedback.
        - Fei Li and Yu Ma: Improve the UI from the feedback.

    - **Deliverables:** Completion of UI design for the Survey Feedback page with multi-language. A deployment-ready application with multi-language capabilities.
    - **Milestones:** Completion of multi-language, successful database integration, server setup, and finalization of the homepage Search functionality.

Project Management

In managing our web API development project, we faced challenges such as increasing complexity, the need for consistency in development environments, version control requirements, and time and resource constraints. To address these, we made the following decisions:

- Use Git as our version control system to facilitate collaboration and prevent conflicts.
- Use GitHub Organization to organize all project-related repositories. Submitting code to clients by way of GitHub PR's
- Use a unified server environment + VS Code for development. Ensure uniformity across the team to prevent inconsistencies.
- Use Postman for testing to ensure the code's reliability and effectiveness.
- Choose Jira for task management, aiming for seamless integration, simplicity, cost-effectiveness, and enhanced collaboration within the team.
- Use agile project management as well as agile development methods. We expect to set a weekly development cycle. Synchronization of tasks and

progress at each stage of the development cycle will be determined through frequently scheduled stand-up meetings, and tasks for the next stage or cycle will be decided.
- We meet with our clients once a week at a set time to synchronize current project progress and to consult with them on issues. The meeting agenda is sent to the client in advance of the meeting.

By focusing on integration, simplicity, and collaboration, we've positioned our team to work with greater agility and transparency, aligning our tooling and workflows with the specific needs and goals of our project.

Risk Management

- Risk Identification

Make the most of every team station meeting, synchronized meetings with clients, and meetings with tutors to communicate positively. Encourage team members to actively raise possible risks.

- Risk Evaluation

Utilize weekly station meetings to perform qualitative and quantitative assessments of identified risks, including assessing the probability and impact level of the risk. Risks are prioritized based on their level of impact.

- Risk Response

Develop response strategies for each risk, including avoidance, transfer, mitigation, and acceptance. Ensure that the response strategy is aligned with project objectives and stakeholder expectations.

Incorporate risk response strategies into project plans and implementation. Ensure that team members have the skills and resources to address the corresponding risks.

- Documentation and records

Document all identified risks, assessments, response strategies, and implementation processes.

Resource and Cost Management

- Cost
  - Hardware and server costs

    Servers: For remote development, providing a unified development environment for individual developers is a better reproduction of problems and improves development efficiency.

  - Software costs

    Development tools: most open-source tools (e.g., HTML/CSS, Python, VS Code, MongoDB, Node.js, React.js) are free.
    Server software: database and database management systems, web server software

- Tech Stack
  - Frontend: React.js, Next.js Node.js
  - Backend: Nest.js, Node.js
  - survey: LabintheWild
- Resource
  - Data: Redit Data (In MongoDB)
  - AI Model:
    - https://huggingface.co/joshnguyen/mformer-authority
    - https://huggingface.co/joshnguyen/mformer-care
    - https://huggingface.co/joshnguyen/mformer-fairness
    - https://huggingface.co/joshnguyen/mformer-loyalty
    - https://huggingface.co/joshnguyen/mformer-sanctity
  - Template: 24-S1-2-C-Moral-Decisions/LITW-study-templates:
  - Organization: 24-S1-2-C Moral Decisions
  - Existing Code: 24-S1-2-C-Moral-Decisions/moral_moments at main

APPROVAL AND AUTHORIZATION

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Team	Signature	Date	Client	Signature	Date
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Zehua Kong	Zehua Kong	Mar 10, 2025			
Zhenhao Li	Zhenhao Li	Mar 10 2025			
Fei Li	Fei Li	Mar 10, 2025			
Lingziluo Xiong	Lingziluo Xiong	Mar 10, 2025			
Shutong Li	Shutong Li	Mar 10 2025			
Zhenhao Li	Zhenhao Li	Mar 10 2025			