

Practical 8

Project Abstract Creation Using Design Thinking Framework

Note: This is just an example. You have to create it on your own project

Project Title: Enhancing Online Learning Engagement through Interactive AI Tools

Abstract:

In the current digital age, online learning has become a significant mode of education, yet it faces challenges in maintaining student engagement. This project aims to enhance online learning engagement using interactive AI tools, employing the Design Thinking framework to ensure a user-centric approach.

Empathize: Understanding the diverse needs and pain points of students and educators is crucial. Through interviews, surveys, and observation, we gathered insights into the challenges faced in online learning environments. Common issues include lack of interactivity, motivation, and personalized learning experiences.

Define: Based on our findings, we defined the core problem: "How might we create interactive and personalized online learning experiences to boost student engagement and motivation?" This problem statement guided our subsequent steps.

Ideate: In this phase, brainstorming sessions were conducted with educators, students, and AI experts to generate creative solutions. Ideas ranged from gamified learning modules, AI-driven personalized learning paths, to real-time interactive quizzes and feedback systems. We prioritized ideas based on feasibility and potential impact.

Prototype: We developed prototypes of the top ideas, including:

1. An AI-powered chatbot for personalized learning assistance.
2. Interactive, gamified modules that adapt to student performance.
3. A real-time feedback system using AI to monitor and enhance student engagement.

Test: These prototypes were tested with a group of students and educators. Feedback was collected to refine the solutions. Iterative testing and improvements were made to ensure the tools effectively address engagement challenges.

Conclusion: Using the Design Thinking framework, we developed and validated interactive AI tools that significantly enhance online learning engagement. Our project demonstrates the potential of AI in creating more engaging, personalized, and effective online learning experiences, paving the way for future innovations in education technology.

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