**PRODUCT REQUEST DESCRIPTION**

Group: C2SE.28

Project: Next Generation Quiz and Trivia Platform

Posted on: February 14th, 2025

**I. Brief description of product ideas (less than 7 statements)**

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| The Next Generation Quiz & Trivia Platform leverages AI to enhance quiz creation, participation, and management. Hosts can instantly generate quizzes using GPT, customize difficulty levels, and track performance analytics. Users engage in interactive gameplay with real-time leaderboards, instant feedback, and adaptive question difficulty. The platform supports both live-hosted and self-paced quizzes, ensuring flexibility for different learning styles. Designed for cross-platform accessibility, it runs smoothly on desktops, mobile devices, and tablets. Admins oversee content moderation, user management, and system security to maintain a structured environment. |

**II. Requirements**

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| High-level functional requirements | 1. AI-Powered Quiz Creation |
| 2. Live & Self-Paced Quizzes |
| 3. User Participation & Engagement |
| 4. Analytics & Performance Tracking |
| 5. User & Role Management |

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| Quality property requirements | 1. Easy to use |
| 2. Easy to learn |
| 3. Easy to Interact |
| 4. Easy to understand |

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| Operational requirements | 1. Ensure system stability |
| 2. Ensure system safety |
| 3. Secure user and system information |
| 4. Ensure load balancing |
| 5. Ensure system scalability |

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| Environmental and operational requirements | 1.The website must be fully optimized for all major web browsers to ensure accessibility across different environments. |
| 2. Ensure compatibility and smooth integration with existing external systems and services, such as payment gateways and mapping services, to facilitate seamless user interactions. |

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| Cultural requirements | 1. N/A |

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| Assess the complexity of technical problems |  | 1. Broad Technical Challenges |
|  | 2. No Clear Solutions Available |
|  | 3. Multi-stakeholder Involvement |
| X | 4. Multi-component Integration |
|  | 5. Multi-disciplinary Approach |
|  | 6. No Clear Solutions Available |

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| Standard requirements |  | 1. Code Standard |
|  | 2. Design Standards (Object-Oriented Design, Analysis) |
|  | 3. ISO/IEC/IEEE 12207:2017 (TCVN 10539:2014); ISO/IEC 25051:2006 (TCVN 10540:2014) |