UPGrade

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Annotation

UPGrade is a streamlined gamified e-learning platform developed to enhance student participation and foster collaborative learning. It allows lecturers to create structured courses with lessons, while students can access materials, ask questions, and contribute to a shared learning community.

The platform incorporates a thoughtfully designed gamification system, including experience points and rewards, to encourage active involvement through discussions and peer support. UPGrade focuses on usability, performance, and community-driven engagement, offering key learning features without the complexity of a full-scale LMS.

Technically, the backend is developed using the Laravel PHP framework, while the frontend is built with React. Scoped styling is handled through CSS Modules, and application state is managed with Redux and redux-persist to ensure session continuity and a responsive user experience.