Proposal for

BIS HACKATHON 2024

Platform to Raise Awareness on Indian Standards : A 3D Interactive Platform for a Safer and Better Tomorrow

Presented by: Mind Hunters

PROBLEM STATEMENT

- The Bureau of Indian Standards (BIS) seeks innovative methods to raise awareness about Indian Standards.
- Our platform aims to engage and educate the public on the importance of these standards for ensuring quality and safety.
- The focus is on developing games and interactive storytelling to capture the interest of all age groups.

Bureau of Indian Standards (BIS)

PROPOSED SOLUTION OVERVIEW

- We propose a multi-level puzzle game with embedded lessons on Indian Standards.
- Manga-style storytelling that makes learning about Indian standards fun and engaging (AI Powered).
- Real-time AI-powered decision-making in a 3D interactive environment.
- A pixel game that incorporates embedded BIS Indian standards as features.
- A complete BIS website featuring these interactive modules to encourage deeper exploration of standards.

Bureau of Indian Standards (BIS)

Puzzle Games with Indian Standards

PUZZLE GAMES OVERVIEW

- Multiple Levels: The game introduces different levels, each addressing specific Indian Standards.
- Learning by Playing: While solving puzzles, players will simultaneously learn about safety and quality standards.
- Challenges: Each challenge unlocks new content related to BIS standards.

Bureau of Indian Standards (BIS)

Manga Storytelling for Engagement

AI POWERED MANGA STORYTELLING

- Interactive Manga: A story told through manga to make it more appealing to younger audiences , and we can extend these.
- Sequential Knowledge Gain: Players learn about standards through the storyline, which unfolds as they progress.
- Manga is currently trending in India, making it a unique and effective method.
- Cultural Appeal: The manga format is accessible and attractive, making large db learning about complex standards easier.

Bureau of Indian Standards (BIS)

WEBSITE INTEGRATION

- Central Hub: The website serves as a central platform for the game, manga, and 3D interaction.
- Resource Access: Users can explore a large database of BIS standards through interactive sessions.
- Continuous Engagement: Regular updates to the platform ensure users return for new content and challenges.
- Future Developement : Pixel Game and Android and IOS application .

3D Story Mode with AI-Powered Interaction (Decision Making)

3D STORY MODE WITH AI

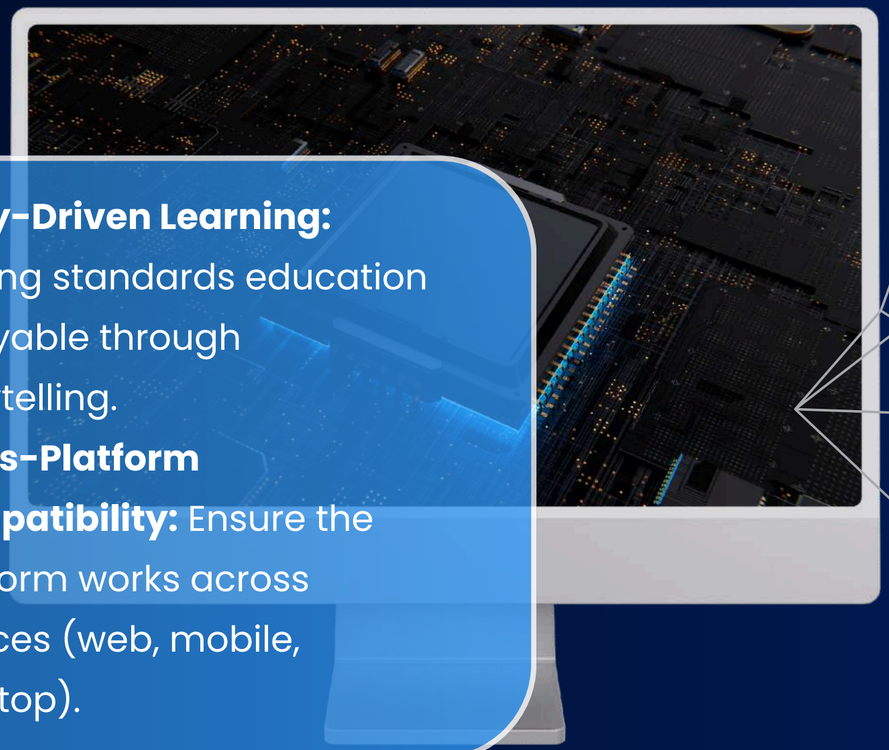
- Real-time Decision Making: The AI responds to player choices, shaping the storyline in real time.
- Interactive Storyline: Players can influence the story's outcome by making decisions based on standards knowledge.
- Engaging for All Ages: The 3D format adds immersion and engagement, appealing to a broad demographic.

IMPLEMENTATION PLAN

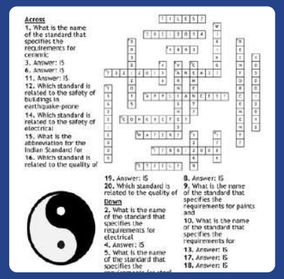
- Phase 1: Design and develop the puzzle game levels and manga storyboards with embaded Indian Standards .
- Phase 2: Integrate AI for real-time decision making in the 3D environment.
- Phase 3: Launch the website with interactive features and a full database of BIS standards.
- Phase 4: Upcoming Features and games with User testing, feedback, and iterations to improve the experience.

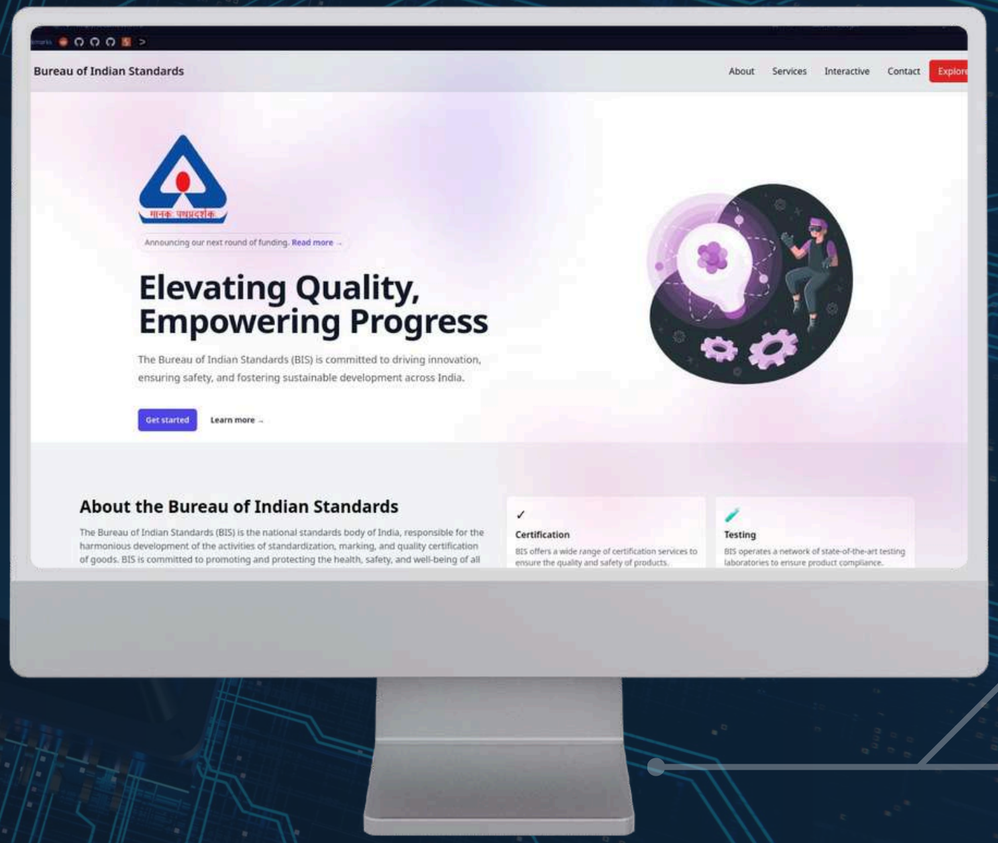
Methodology

- **Agile Development:** Continuous feedback and iterations with stakeholders.
- **AI and Gamification:** Leveraging AI to make decision-making seamless and engaging.
- **Story-Driven Learning:** Making standards education enjoyable through storytelling.
- **Cross-Platform Compatibility:** Ensure the platform works across devices (web, mobile, desktop).



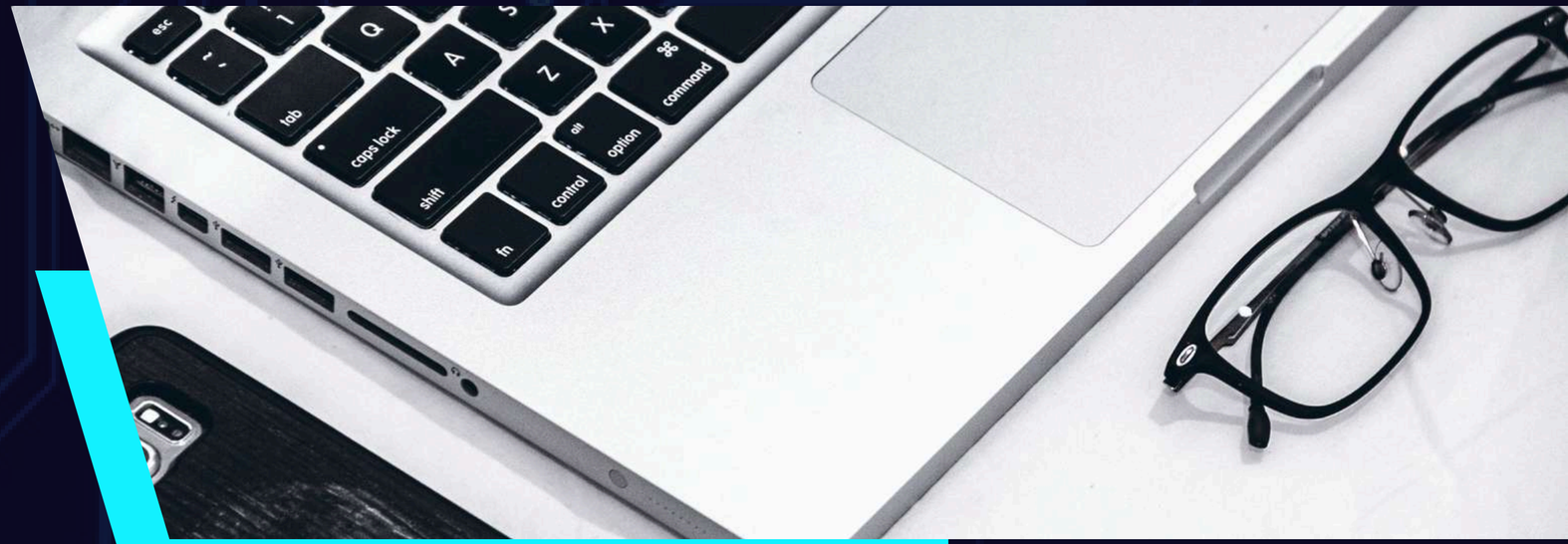
Preliminary Prototypes





- Include screenshots or mockups of the puzzle game interface, AI manga-style panels, and 3D interactive scenes.
- Provide a Advanced decision-making options powered by AI.
- Multi-Platforms

ABOUT TECHNOLOGY



MERN

01

Our platform is built using the MERN Stack (MongoDB, Express.js, React.js, Node.js), ensuring a dynamic, scalable, and responsive web experience. With React.js at the core, we leverage Tailwind CSS for a sleek, customizable UI, while Framer Motion adds seamless animations to enhance user interaction and overall experience.

three.js

02

For immersive 3D elements, Three.js is used to bring interactive visual components into the web interface, creating engaging environments that users can explore. These features make learning about Indian Standards more interactive and visually appealing.

LLM AI

03

On the AI front, we integrate OpenAI's LLM API for real-time decision-making, enabling intelligent, dynamic storytelling. The platform also utilizes LLM-based customizations to offer personalized interactions, evolving the story and adapting content based on the user's actions.

EXPECTED IMPACT

- **Wider Awareness:** The platform will engage a wide audience, increasing awareness of Indian Standards.
- **Interactive Learning:** Users will gain knowledge through fun and engaging activities.
- **Long-Term Engagement:** The platform can grow with regular updates, keeping users invested in learning.

Mission

@reallygreatsite

Bureau of Indian Standards (BIS)

Dr B R Ambedkar National Institute of Technology Jalandhar

CONTACT US

Team Name : Mind Hunters

Members :

- Govind Dubey (govindd.it.22@nitj.ac.in)
- Tarush Gupta (tarushg.it.22@nitj.ac.in)

THANK YOU!

FOR YOUR ATTENTION