



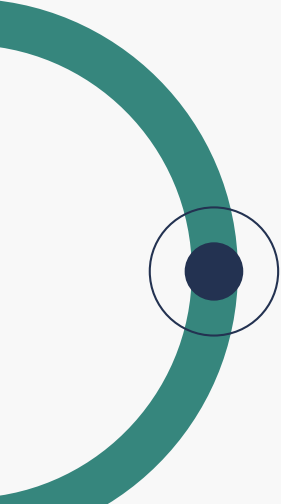
Topic : Challenges your creative minds to conceptualize and develop unique toys & games

Domain : Student Innovation

Team ID : 322

Team name : word benders

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Objective

- 1 . To build a fun and educational word puzzle game.
- 2 . Enhance vocabulary and spelling skills interactively.
- 3 . Provide a simple UI where players guess scrambled words.
- 4 . Encourage learning through play.



Problem Statement



Many students struggle with vocabulary and spelling.

Existing learning tools often lack engagement.

Need for an interactive and gamified approach to help students improve language skills.



Existing system



- Existing Games - Flashcards, quizzes, Word-based games
- Limitations - Low engagement, Passive learning

Students need interactive, customizable, and fun ways to learn vocabulary
Word Scrambler makes learning active, competitive, and engaging

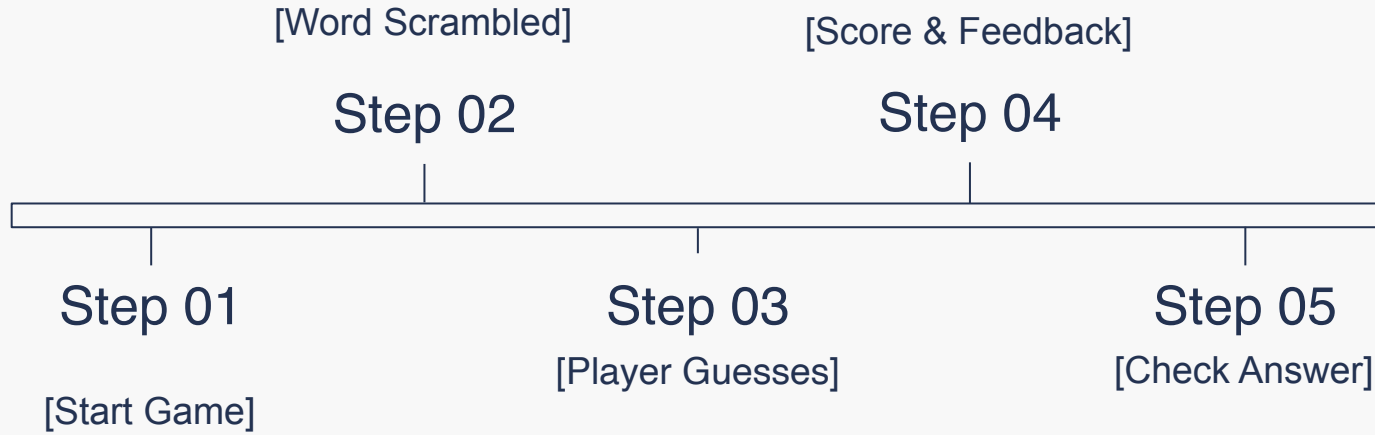




Proposed system

- We introduce Word Scrambler, an interactive educational puzzle game designed to help students learn vocabulary through play. Players are given a scrambled word and must rearrange letters to form the correct word.
 - Existing Custom Word Lists for Different Levels
 - Built-in Timer, Scoring & Hints
 - Mobile, Tablet, and Web Compatible
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Workflow



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Tech Stack

Languages used Html, Css, Js

Tools used : GitHub , VScode , Live server

Key Takeaways & Future Prospects

Impact & Benefits

- ✓ The Word Scrambler Game is a fun and educational tool that enhances vocabulary, spelling, and cognitive skills.
- ✓ It provides an interactive and engaging experience for players of all ages.
- ✓ The system is scalable and adaptable, making it suitable for classrooms, self-learning, and entertainment.
- ✓ Gamification elements like timers, scoring, and leaderboards increase user engagement.

Future Enhancements

- ✓ AI-powered difficulty adjustment to personalize learning.
- ✓ Mobile & cross-platform versions for wider accessibility.
- ✓ Voice-based interactions for a more immersive experience.
- ✓ Multiplayer mode & global leaderboards for interactive competitions.
- ✓ Customizable themes & word categories for personalized gameplay.





Conclusion & Future Scope



- Improves student vocabulary in a playful way.
- Can be expanded with difficulty levels and multiplayer mode.
- Future: Add leaderboard, timed challenges, and mobile app version.

