

STORYBOOK DESIGN DOC

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Objective

The objective of the Storybook page is to provide teachers with a powerful tool to create personalized and engaging educational storybooks. The clear and well-defined goal is to enable teachers to input educational themes, learning objectives, and student preferences, while leveraging Generative AI to enhance story content and create interactive visuals.

Requirements

The requirements for the Storybook page are structured to meet the needs of teachers and students, ensuring a robust and user-friendly platform.

Educational Themes: Teachers can specify the main theme of the story, such as science, math, language arts, or social studies.

Learning Objectives: Teachers can define specific learning goals or concepts, including math equations, historic events, reading skills, and experiments.

Student Preferences: The system allows customization of the story based on the age group, reading level, and interests of the students.

Database Query: The system will store and retrieve Teacher Profiles to track individual preferences and previously created storybooks. Optionally, Student Profiles can be stored to personalize stories further based on individual reading levels and interests.

Background

The context of the problem is well defined, providing a foundation for the development of the Storybook page. The need for personalized and engaging educational content creation is addressed by the platform, considering both teacher and student perspectives. The background section sets the stage for understanding why such a platform is necessary and how it addresses existing challenges.

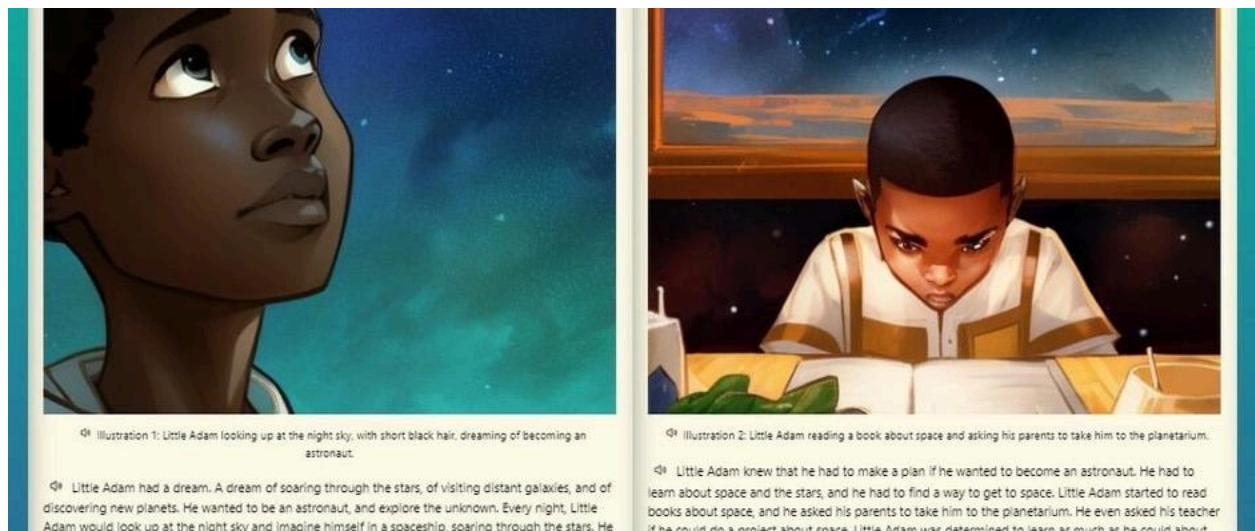
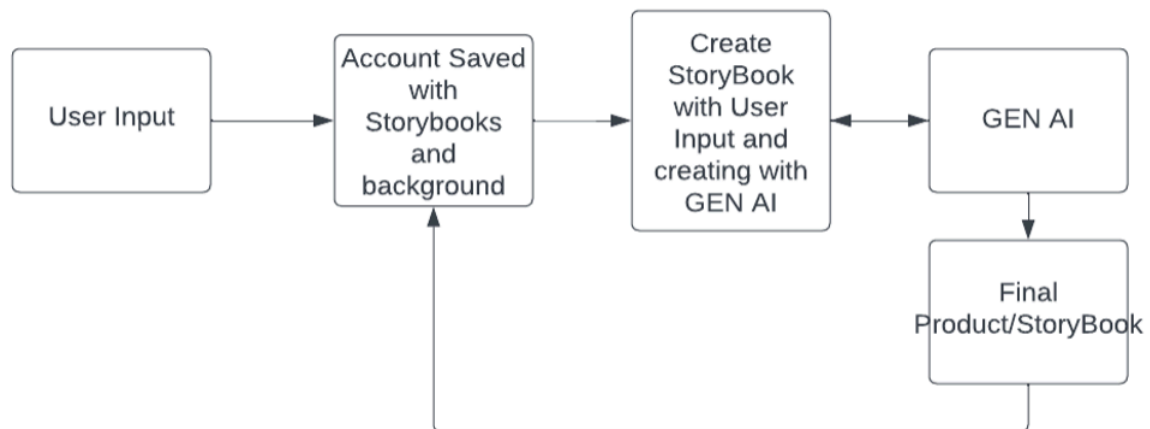
Design Ideas

Design ideas for the Storybook page are fully conceptualized, relevant, and feasible. The focus is on enhancing story content through Generative AI for an enriched learning experience.

Enhance Story Content: Users can input details like characters, visuals, and educational goals. Support for importing photos, equations, and predetermined lesson plans for specific units.

Outputs include age-appropriate language, engaging dialogues, and educational scenarios aligned with themes and objectives.

Create Visual Elements: Users input the text story with specific requests for illustrations, diagrams, or interactive elements. AI generates diagrams for math problems, timelines for social studies, creative photos, and various image variations.



Alternatives Considered

Alternative 1: Template-Based Story Generation

Idea: Provide predefined templates for different educational themes.

Pros: Simplifies the content creation process for teachers. Ensures consistency in story structure.

Cons: Limits creative freedom for teachers. May not suit all learning objectives.

Alternative 2: Collaborative Story Creation Platform

Idea: Allow multiple teachers and students to collaborate on a single story.

Pros: Fosters teamwork and collective creativity. Diverse perspectives contribute to richer content.

Cons: Coordination challenges among contributors. Requires robust version control for the story.

Prompts

Prompt: "Check for and correct any grammatical errors throughout the document. Focus on sentence structure, punctuation, and overall clarity."

Prompt: "Ensure consistent and professional formatting. Check headings, subheadings, and overall organization for readability. Make any necessary adjustments."