Project Report: Frontend Development Assignment

1. Introduction

Objective: The goal of this assignment was to demonstrate frontend development skills by replicating the "Pricing" section from the TryBookAI website. This included creating a responsive, accessible, and user-friendly component with a light and dark mode toggle.

Website Reference:

 [TryBookAI-PricingSection] (https://trybookai.com/api#pricing)

2. Project Scope

Component Recreated: "Pricing" section of the TryBookAI website.

Additional Implementations:

- Light and Dark mode toggle.
- Accessibility enhancements using semantic HTML and ARIA attributes.
- Fully responsive design across various screen sizes.

3. Development Process

Design Fidelity:

The layout, typography, and colour scheme were replicated accurately to match the original design of the "Pricing" section.

Responsiveness:

- The component was tested and optimized for different screen sizes (desktop, tablet, and mobile).
- Media queries and responsive units (e.g., `rem`, `em`,) were used to achieve fluid design.

 Accessibility:

- Semantic HTML elements such as `<header>`, `<nav>`, `<section>`, and `<table>` were used to ensure the structure is meaningful and accessible.
- ARIA attributes were implemented where necessary to improve the accessibility of interactive elements.

Interactivity:

A light and dark mode toggle was implemented using JavaScript, allowing users to switch themes dynamically.

Styling:

- Custom CSS was used to style the component, ensuring a clean and maintainable codebase.
- CSS variables (`:root`) were employed to manage theme colours efficiently.

4. Tools & Technologies

HTML5 & CSS3: For markup and styling.

JavaScript: To handle interactivity and theme toggling.

Custom CSS: For responsive design and theme management.

DevTools & Testing: Browser Developer Tools were used for debugging and ensuring cross-browser compatibility.

5. Challenges & Solutions

Challenge: Ensuring design fidelity while maintaining responsiveness across various screen sizes.

Solution: Utilized responsive units and media queries to adapt the design effectively.

Challenge: Implementing the light and dark mode toggle in a user-friendly way.

Solution: Used CSS variables and JavaScript to switch themes seamlessly.
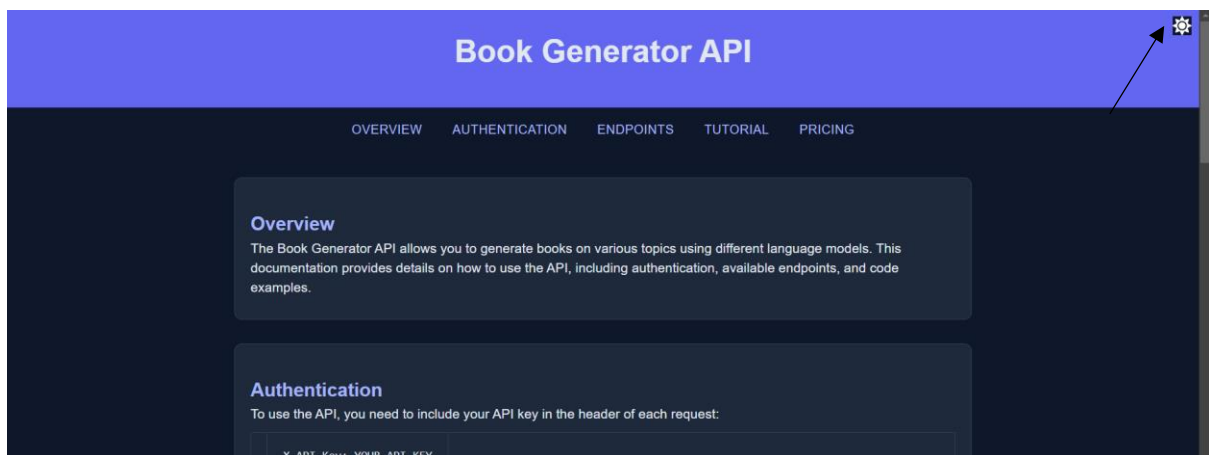
6. Conclusion

This assignment provided an opportunity to demonstrate and enhance my frontend development skills. The recreated "Pricing" section meets the design and functionality requirements outlined in the task description. The final product is responsive, accessible, and includes a dynamic light/dark mode toggle, showcasing my ability to deliver high-quality frontend solutions.
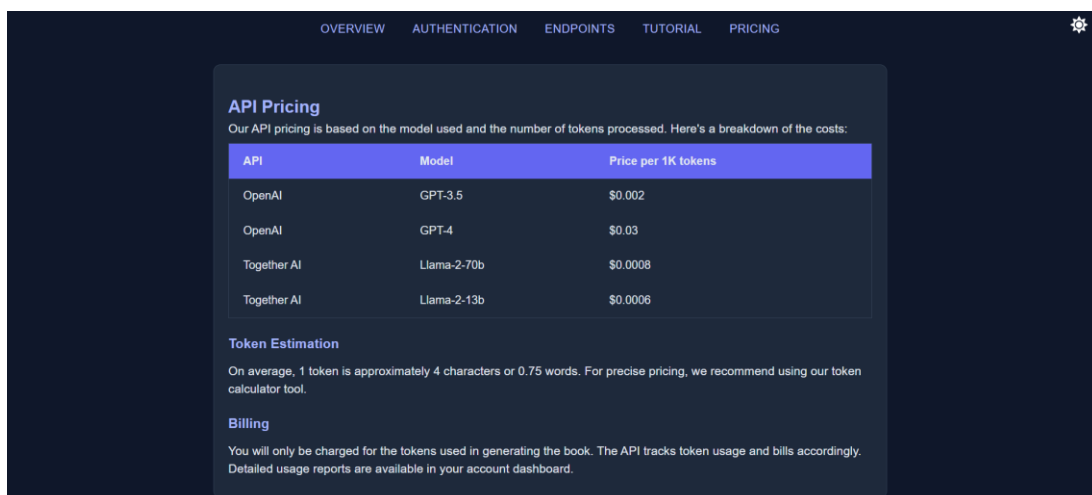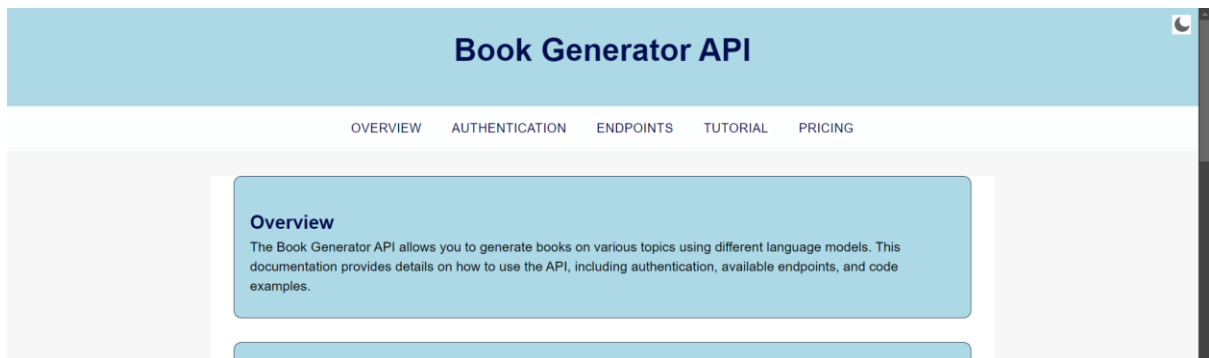
7. Appendix

Links to Source Code: GitHub Repository: https://github.com/Sooryakumar-R/BookAI.git

Screenshots:

Dark Theme:

Light Theme:

sooryakumarandso@gmail.com

API Pricing

Our API pricing is based on the model used and the number of tokens processed. Here's a breakdown of the costs:

API	Model	Price per 1K tokens
OpenAI	GPT-3.5	$0.002
OpenAI	GPT-4	$0.03
Together AI	Llama-2-70b	$0.0008
Together AI	Llama-2-13b	$0.0006

Token Estimation

On average, 1 token is approximately 4 characters or 0.75 words. For precise pricing, we recommend using our token calculator tool.

Billing

You will only be charged for the tokens used in generating the book. The API tracks token usage and bills accordingly. Detailed usage reports are available in your account dashboard.

Authentication

To use the API, you need to include your API key in the header of each request:

```
X-API-Key: YOUR_API_KEY
```

To generate an API key, use the button below:

Generator API Key

Generated the API key:

```
Your API Key: P0PB5Z-3W03rTsn0CzYcJGQpVr6qBOUkzMtAZUbW
```

sooryakumarandso@gmail.com