

Project Description

Group ID: 09

21125018 – Nguyễn Hoàng Minh

22125008 – Lưu Quốc Bảo

22125064 – Lê Hữu Nghĩa

22125120 – Trịnh Nguyễn Thảo Vi

18125071 – Lê Cao Tiến Đạt

Project: PageRhythm

With the growing prevalence of digital devices in daily life, more people are choosing to read books on screens instead of purchasing physical copies, which often requires visiting bookstores or waiting for deliveries. However, prolonged reading on electronic devices can lead to fatigue and eye strain. To address this issue, we aim to develop a website that not only enables users to read but also provides the option to listen to narrated versions of their desired books. To further enhance the user experience, the website will allow users to customize the voice for the narration, making the experience more engaging and personalized.

The website offers several core features. Upon visiting, users can search for their desired books and browse a list of relevant results. Each book entry includes essential information such as the title, author(s), description, and average user rating, along with other relevant details to enhance the browsing experience. One of the core features is that the users can listen to **customizable voices reading books**. More specifically, users have the option to listen to their chosen books using default voice narrations provided by the website or by uploading custom voice files. Based on these provided files, the text-to-speech is intended to be done with the help of ML models. Beside books, the users can also **read or listen to comics or manga**. The users can choose to listen to the comics provided by the website or upload pages to the website. The website's **smart listening mode** offers further customization, allowing users to adjust playback speed, set a listening timer, and schedule playback times. It ensures a tailored listening experience that fits each user's daily schedule. Moreover, the app **recommends books based on the user's history of reading books and preferred voice**, creating a more harmonious and enjoyable experience.

Current market competitors like Audible and Kindle do not offer such advanced customization. Audible provides a large library but lacks the option for users to

personalize narration voices. Kindle, while popular for reading, does not support personal audiobook features. Google Play Books offers both reading and listening, but the voices used for text-to-speech are mechanical and cannot be customized.

The website stands out with its unique ability to upload personal voice files and switch effortlessly between reading and listening, offering a convenient, engaging, and personalized experience for users, regardless of their busy schedules or personal preferences. Its smart listening mode and personalized book recommendations further elevate the app, making it a compelling choice for modern readers and listeners alike.