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# **Read and Listen Library**

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**Abstract:** There is a great saying that a good book is a good friend. Reading books can help human to improve one's intelligence and is also a good exercise to the brain. So reading book habits have many advantages. The traditional method of reading books has its own advantages, but it consumes not only a lot of time and money but also a lot of space. They require more time to complete a book. Unlike the traditional methods, there are also audio podcasts available in the market which take only a few hours to complete a book but are also very distracting. The users of audio podcasts can be easily distracted by anything and hence they may lose track of the actual message in the book. Thus, our idea is to provide users with a new era of digital library where multiple options are available to them. They can choose to read a book, listen to its audio, or select the read and listen option where our system reads the book for them with highlighted text, so they pay full attention to the book and the audio playing. The users can read a book as a pdf or listen to the audio of the books or can even select an option such as read and listen where our system reads the book for the user with highlighted text so that the user pay full attention on the book and the audio playing. This requires users to pay full attention to the book, and keeps them concentrated. The chances of distraction in this type of reading are very few, and hence users can get the full benefit from the book. This method can also help users complete more books in less time. Our goal is to provide every book lover with a new learning experience and give them a satisfactory experience in reading a book.

**Keywords:** Library

#### I. INTRODUCTION

Reading a book has its own benefits and everyone would like to have a habit of reading books. To help such knowledge seekers we have come up with the **Read and Listen library**. This is a digital library that might be similar to other libraries available in the market, yet it is so different from them. It provides multipl options for the users to read a book. The user can select a book to read, listen or to read and listen. The users can fulfil their knowledge hunger without any distactions and deviations. The user can also upload files of their intrest to listen to the books of their choice. The website is developed using node js as frontend and backend framework. It stores the data of the users and list of books. Every user has unique login details and can access the website with correct login details.

## II. RELATED WORKS

There are few softwares available in the market that provides the users with digital library. These provide the users with multiple documents of several books and there are also other software that provides audio files of the books or the podcasts. These type of system have a fixed set of protocols to serve the fixed requirements of the user. These printed electronic books can be available to read on devices such as smart phones tablets. Computer and other electronic devices where as audio books are recordings of books that can be listened on various audio devices including smartphones, tablets, and computers etc, udio books can be listened from anywhere and at doing any work. Such applications provide the users with multiple options to provide users with the best experience of reading a book and to improve the literature of the readers. They have multiple other features such as adjusting the font size, background, meanings etc., Both these systems have their unique advantages and can be a great way to enjoy literature in a convenient way.





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#### III. PROPOSED SYSTEM

With multiple software and applications available in the market that provide users with multiple yet limited features. we would like to extend such systems to the next level. Our system provides the users with multiple options to read a book that a user is comfortable way. We understand that every user has different requirements and would like to enjoy the process of reading a book. Our goal is to fulfill such requirements of the users. We have used the technology to the fullest to fulfil such requirements of the users hence we have developed our system using node-js framework for both frontend and backend developement of the application. We also MongoDB as the database server to store the details of the users and store books etc. Text to speech conversion using applications.

Here's the corrected version:

#### IV. METHODOLOGY AND IMPLEMENTATION

We developed a web application that provides a platform for users to access a new kind of digital library. To access the books, users need to connect to the website and log in if they already have an account. If the user is new to the website, they must create a new account by registering on the website. After successful registration, the user can log in to the website and choose from the following options:

#### 1. Read

In this module, the user is provided with a list of books arranged by genre. The user can select a book of their favourite genre and click on the "Read" button below the book. The user is then taken to a page where the book is opened and they can start reading. The user can adjust the font size and background, and can also search for word meanings when stuck while reading. This makes the task of the user more user-friendly and satisfactory.

#### 2. Listen

In this module, the user is provided with a list of books arranged by genre. The user can select a book of their favourite genre and click on the "Listen" button below the book. The user can listen to the audio that reads the book. The user can close the book, pause the audio, or switch to the next page as they wish. Users can also adjust the volume according to their needs.

# 3. Read and Listen

In this module, the user is provided with a list of books arranged by genre. The user can select a book of their favourite genre and click on the "Listen" button below the book. The user can then click on the "Read and Listen" button available below the other two buttons (Read and Listen). The user is then taken to a page where the e-book opens and the audio starts playing. The user can stop the audio and close the book if they want to stop reading further. The user can also navigate to previous and next pages, and can go to a particular page and click on the "Read Page" button, which reads the book from a specific page.

#### 4. Add File

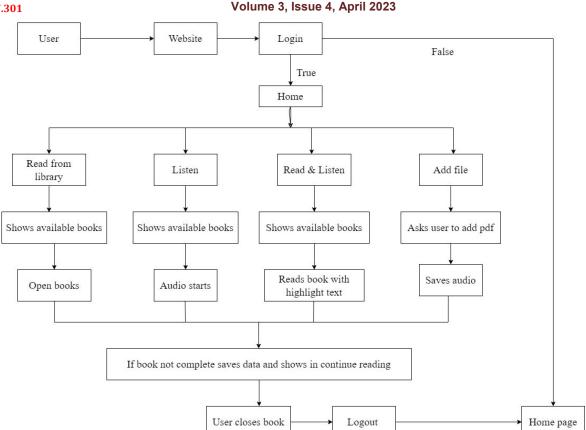
In this module, users can insert a book of their interest and convert it into an audio file. This feature enables users to be more user-friendly with the website and can help them convert any book to audio.

The following is the data flow diagram of the built website. Each step leads to another with user authentication and is easy to navigate from one place to another within the website.



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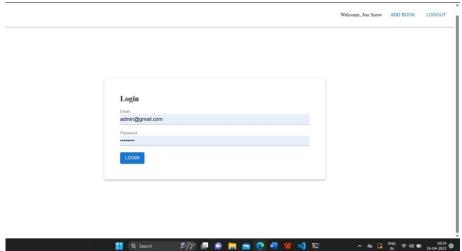
The above diagram clearly describes the actions of the website and flow of the data from one step to the other. It is clear that to navigate across the website by the user one must be a valid user of the website. Authentication is done in prior to provide the data for the users from the website and user can register his details and can use the website.

Data Flow diagram of the website

# V. OUTPUTS

The following are the screenshots of the developed website. Each module and action present in the website is specified clearly in these screenshots.

When a user opens the website they must be provide valid login details to access the website. If the user is new to the website then they can register as a new user and can log-in to the website.



When a user selects the book of his choice he will be navigated to the page like this where he can read a book.

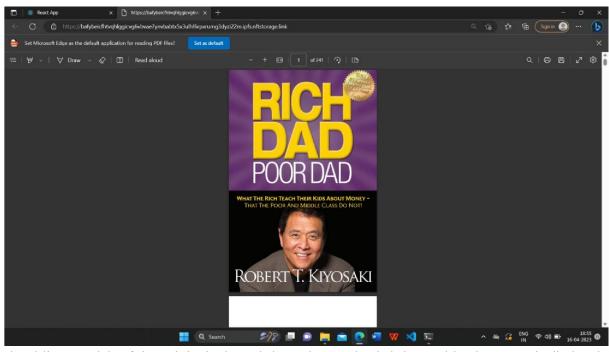
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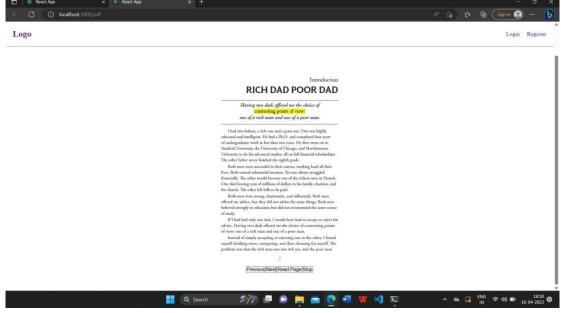


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Read and listen module of the website is shown below. The text that is being read by the system is displayed as a highlight text so that the user cannot deviate from the book.



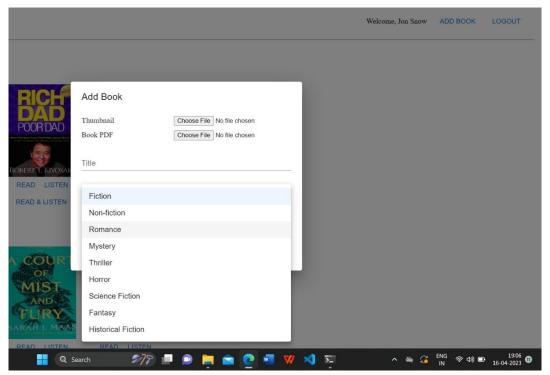
The admin of the website can add books in to the website. They need to add the front page of the book in thumbnail, must upload a pdf in Book pdf column and select genre in title of the book.





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#### VI. CONCLUSION

In conclusion, The Read and Listen library, a website that is useful for every user who would like to read and wanted to build a habit of reading. This website provides the users with different options to read a book and help to increase their communication skills, reading ability, grasping power and general knowledge.

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