

- *A Mini Project Synopsis on*

AUDIO LIBRARY SYSTEM FOR BLIND PEOPLE

S.E. - I.T Engineering

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CERTIFICATE

This to certify that the Mini Project report on AUDIO LIBRARY SYSTEM FOR BLIND PEOPLE has been submitted by Kalpesh Chavan (20104079), Ankit Awade (20104082), Aaswit Kanhed (20104083), Nishant Palav (20104055) who are Bonafide students of A.P Shah Institute of Technology, Thane, Mumbai, as a partial fulfillment of the requirement for the degree in **Information Technology**, during the academic year **2021-2022** in the satisfactory manner as per the curriculum laid down by University of Mumbai.

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Chapter 1

Introduction:

- In the past when there were no audiobooks, a blind person was unable to enjoy the story.
- The only possibility was that someone read aloud the story for a blind person. Reading storybook through Braille script was too much time consuming and is not that much enjoyable.
- There are many movies on various stories and characters. One can enjoy a movie more than just reading the book as one can see the picture and have enjoyable sound effects.

1.1 Purpose:

- The aim is to provide several books shops where these books are made available for customers.
- You can even visit audio shops where you can get a variety of Audio books for the Blind.
- The professional narrative voice used in the Audiobooks for blind make it more real and blind person can feel the story.
- The background music and thrilling sound used in the Audiobooks for blind make them more horror or lovely.
- A blind can have perfect enjoyment of hearing stories with such effect. This makes the story more real as one can watch over a television. This is the best alternative available in front of blind people.

1.2 Objectives:

- The blind child can increase his imagination power, increase his vocabulary and have knowledge of perfect pronunciation of every word.
- The unabridged audio books as they are small help to develop the habit of hearing more and more audio versions of different books and help the person to increase their knowledge.
- The audio books are becoming more popular because it is more convenient to listen on mp3 devices and listening being more powerful and interesting, improved vocabulary skills are seen in children.
- One of the most wonderful advantages of mp3 books is that they are available to many at a time.
- It has reached a level where you don't need to physically go to the stores and look for your book and the mp3 audio books on line will never go out of stock.

1.3 Scope:

To assist the customers in minimizing the effort spent on their working areas.

- Customers can choose variety of Audio Books and enjoy their reading and gaining knowledge through audio.
- To utilize the application in an efficient manner by increasing their productivity through automation.
- The system satisfies the user requirement, is easy to understand by the user and operator.
- The Audio Library provides a good user interface
- The audio form of unabridged audio book is the real gift of time for blind.
- Now the blind that need not have the knowledge of Braille script, can also enjoy the story and novel of their favorite writer or of the subject in which they have lot of interest.

- Unabridged Audio Books for blind are specially designed and are getting more and more popularity every day. The unabridged audio books are the words for word reading of book
- A blind person can enjoy his or her leisure time by hearing Unabridged Audio Books for blind.

Chapter 2

Problem Definition:

- Unabridged books are the books those have condensed story. As the original book or novel is quite lengthy, the contents of the story, novel and condensed by dropping unwanted explanations and statements, and main story remain as it is.
- The pages of book are reduced and one can enjoy reading of such book in one go. Even for blind, this is proved beneficial.
- The most important is that with the introduction of technology now the Unabridged Audio Books for blind are available.

Chapter 3

Proposed System :

- Audio books for blind are showing increased demand as they are the perfect entertainment for blinds.
- Now blind person can make perfect use of his or her spare time and make his or her day interesting.
- This way it will sow seed of living and enjoying the life in the minds of blind people. Making Audio books for blind is the good service that an audio company provides.

Important Features are as Follows :

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- Now blind person can make perfect use of his or her spare time and make his or her day interesting.
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Chapter 4

Features And Functionality:

- Hearing audio books over Audio book players for blind make the person to enjoy the book as enjoying a movie.
- The audio players have facility to swift from one story to another and there are many more features especially designed by considering the need of blind people.
- The books are made more convenient so that a blind person can enjoy listening and can make his mind from stress and tiredness.
- These audio books are absolutely free to download on various websites. You can even purchase these audio players from local shops.
- Online purchase will benefit you with greater discounts. There are several benefits a blind can derive from online audio books and audio players.
- The compact sized Audio book players for blind can store number of audio books and easy to carry in a small pocket or purse.
- It will be convenient for the users when it comes to reading books and listening to their favorite songs.
- The system design being simple and significant will provide all the important details to the users. Users can view all the things on their tips of tech devices simply, thus saving time and energy.

Chapter 5

Project Outcome:

- A blind person can enjoy hearing audio book on MP3 player or on CD player.
- Number of audio stories can be saved on a single MP3 player and a blind person can hear them as much time as he or she want.
- They can hear audio stories anywhere and anytime. One can delete unwanted audio stories from MP3 player. There are several online websites those provide audio books and.
- These audio books especially made for blind people are the best source for educating them and found to be best in educational purpose.
- A blind person can come to know the new things, information and lot may things from collection of scientific, historic, comics, political, and so on audio books. Really Audio books for blind are the perfect solution to spend leisure time

Chapter 6

Software Requirements :

1. IDE: - PyCharm

It was used for writing and executing the logic and codes.

2. Front End: - Python Tkinter

It was used to create design using Python.

3. Database:- MySQL

It was required to network and connect the databases and complete the project for execution.

Chapter 7

Project Design:

In this phase, a logical system is built which fulfils the given requirements. Design phase of software development deals with transforming the client's requirements into a logically working system. Normally, design is performed in the following in the following two steps :

1. Primary Design Phase :

In this phase, the system is designed at block level. The blocks are created on the basis of analysis done in the problem identification phase. Different blocks are created for different functions emphasis is put on minimizing the information flow between blocks. Thus, all activities which require more interaction are kept in one block.

2. Secondary Design Phase :

In the secondary phase the detailed design of every block is performed.

The general tasks involved in the design process are the following :

- 1.** Design various database structures.
- 2.** Specify details of programs to achieve desired functionality.
- 3.** Design the form of inputs, and outputs of the system.
- 4.** Perform documentation of the design.
- 5.** System reviews.

User Interface Design:

User Interface Design is concerned with the dialogue between a user and the computer. It is concerned with everything from starting the system or logging into the system to the eventually presentation of desired inputs and outputs. The overall flow of screens and messages is called a dialogue.

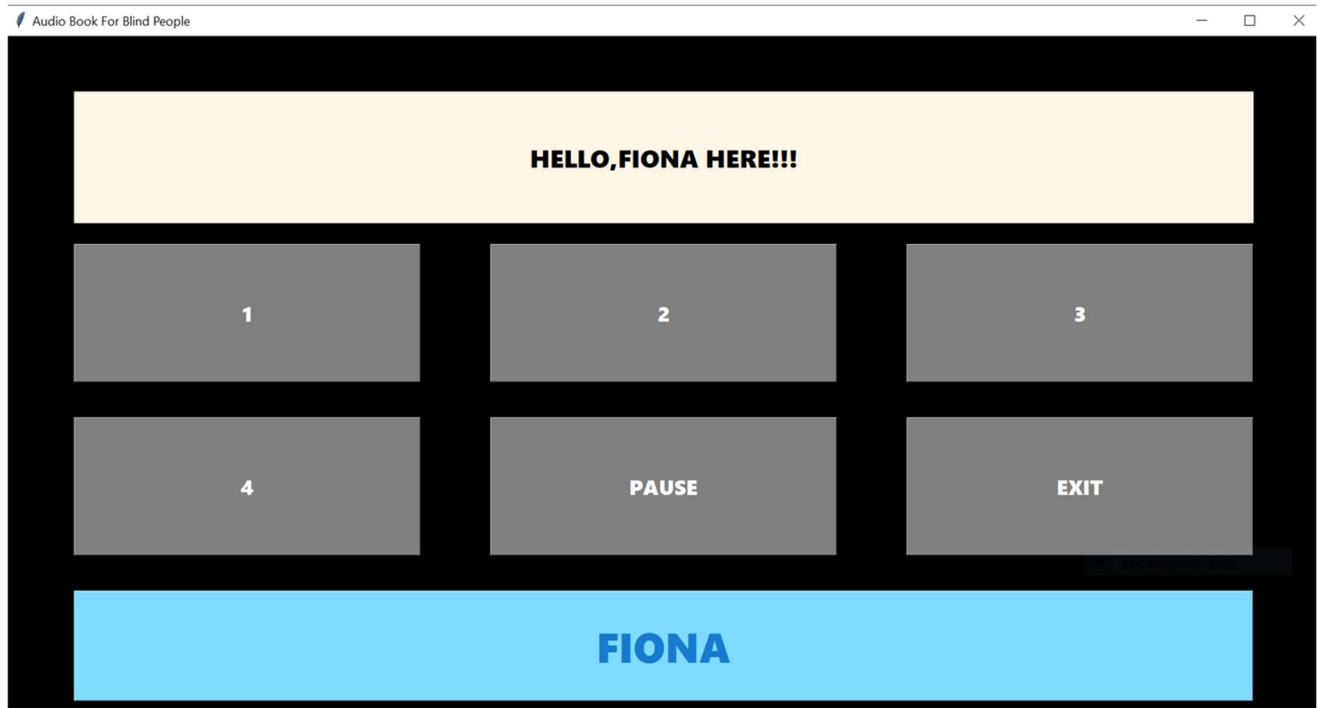


Figure 7.1 : GUI for Audiobook

Following are the books Which we have added in our project

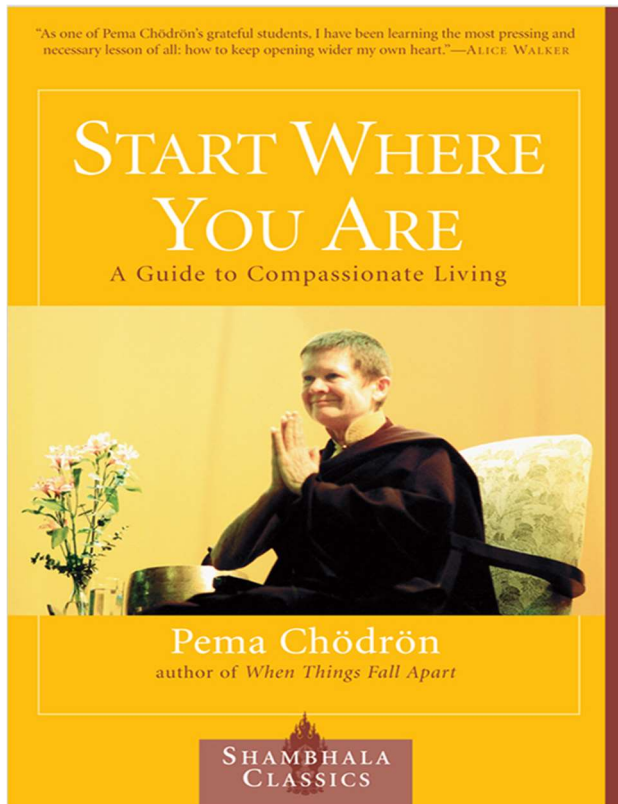


Fig 7.2: Start Where You Are

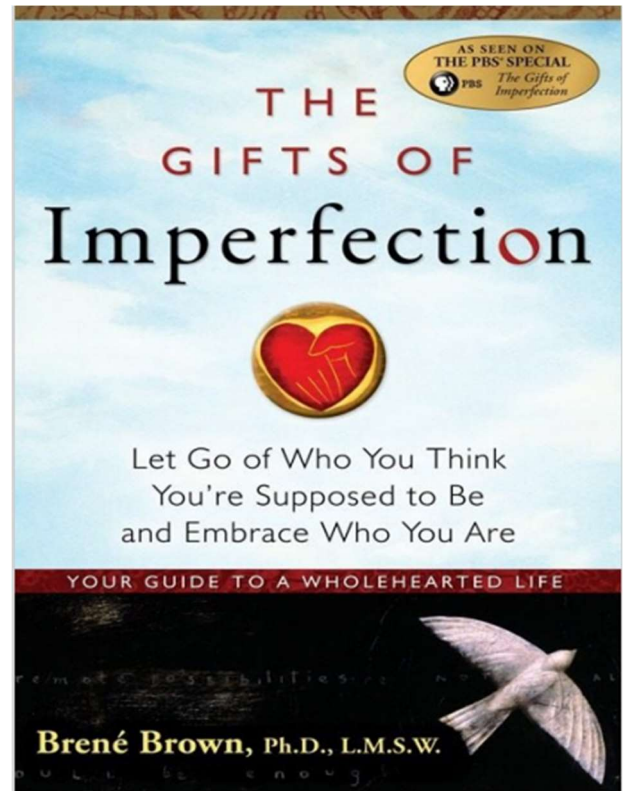


Fig 7.3: The Gifts of Imperfection

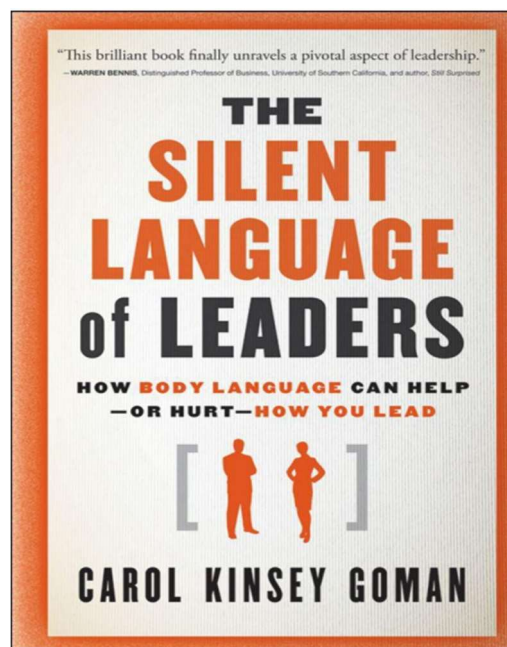


Fig 7.4: The Silent Language of Leaders

When User will give the command as : “ FIONA play ZINGAT” Then it will play song ZINGAT

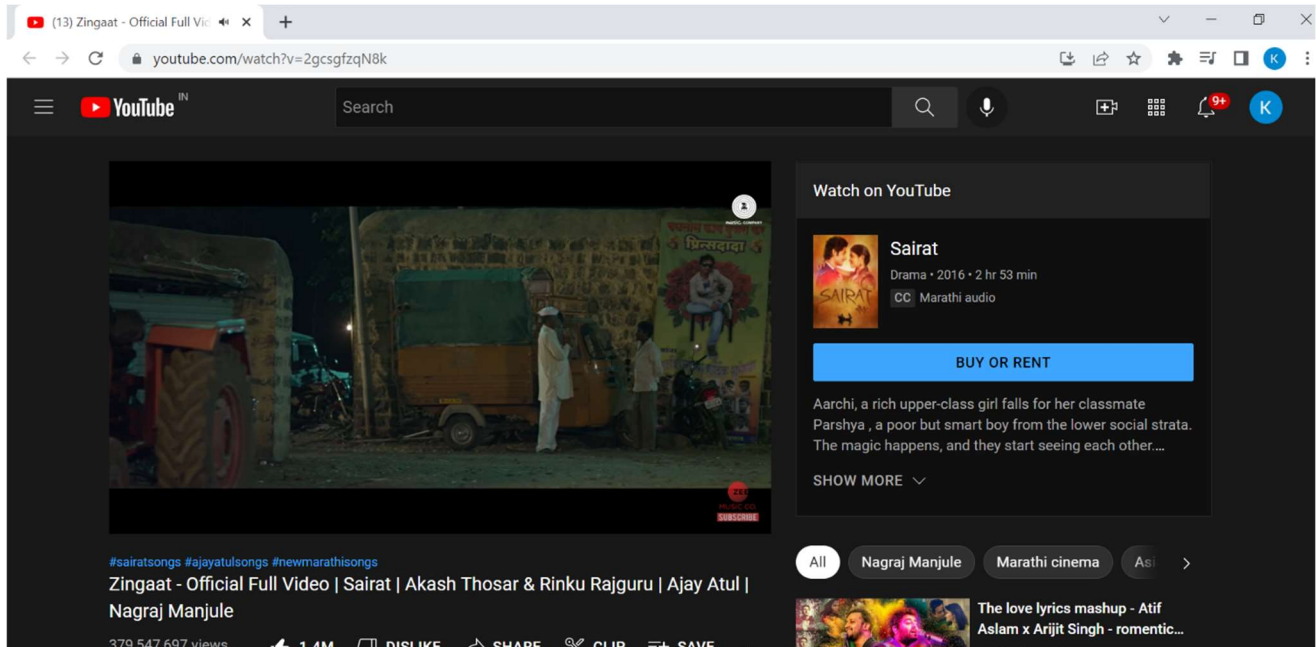


Figure 7.5 : For playing Any song by taking command

When user asks the time to fine in the command then it will give the current time by displaying as well as by saying.

The Command : FIONA What's the time ?

After listening to the command Fiona Will display the current time.

Chapter 8

Project Scheduling Template

Sr. No	Group Member	Time duration	Work to be done
1	Kalpesh Chavan	1 st week of January	Implementing 1 st module (Discussion on Topic , Designing of the user interface discussion)
2	Ankit Awade	2 nd week of January	Testing 1 st module (Testing The code for audiobook i.e testing that the system reads the audiobook as given on the pdf)

3	Nishant Palav	3 rd week of January	Implementing 2nd module (Discussion on designing Virtual assistant we created the virtual assistant similar to alexa , we have named our virtual assistant as FIONA.)
4	Aaswit Kanhed	By the end of march month	Implementing 3 rd and 4 th functionality (Testing pdf reader (audiobook reader) and FIONA (virtual assistant for Blind People))

Chapter 9

Conclusion:

In this project, we have covered the implementation of a audiobook for blind as well as normal person with no disability can also access it, that can read the entire pdf book using a python code. For better audio results you can also tune the voice, rate, and volume of the speaker library. The system satisfies the user requirement, is easy to understand by the user and operator.

Chapter 10

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1. <https://youtu.be/IOhZqmSrjIE>
2. https://www.youtube.com/channel/UCA1UW__WEiBd1bmzyKlBUyw
3. <https://youtu.be/yB85BQZX2c8>