**AIRD:-Your Reader**

**A Minor Project Synopsis Submitted to**

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**Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal**

**Towards Partial Fulfillment for the Award of**

**Bachelor of Technology**

**(Computer Science and Information Technology)**

**Submitted By**

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**Under the Supervision of:**

**Prof. Simarjeet Singh Bhatia**



**Department of Computer Science and Information Technology**

**Acropolis Institute of Technology & Research, Indore**

**July-Dec 2021**

**Project Proposal: AIRD:-Your Reader**

**Project Category:**

a) Mobile application (Android)

b) Machine Learning /AI based

**Problem Statement:**

A) It is not easy to handle a long pdf with many pages/slides(books/documents with many pages).

B) We currently have slow access to large pdf’s. So to access a large pdf with a voice command will be relatively fast and favourable .

C) Aim:- To access the pdf’s in a faster and easier way with voice command.

**Scope**

It is an app which help us to read a pdf in much better way. It has following features  
1: controlling pdf with voice  
2:auto reading feature like audio books  
3:dark and light mode  
4:auto size feature with screen  
5:store important pdf in cloud  
6:like your important pdf  
7:date,name and size wise sorting of pdf

**Specific Objectives:**

Facilitate easy reading of pdf’s and make it more comfortable for user by speech instruction.

**Stake Holders of Project**

Anyone.

**Background**

We are currently having slow access to large pdf’s and also no read aloud option in any pdf app.

**Review of Literature:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Title** | **Reference** | **Date and year of publication/release of project** | **Features** |  |
| PDF Voice reader aloud: Text to Speech | Play store | 30 aug-2021 | Listen to pdf files, highlight spoken sentences,multi language |  |
| PDF aloud reader | Play store | 24july-2020 | List pdf files, search for a pdf file , read a pdf file, listen to a pdf file etc |  |
| PDF voice reader-PDF audio read aloud and PDF view | Play store | 22Dec-2020 | Pdf read aloud, pdf reader, pdf viewer |  |
| PDF voice reader: Audio | Play store | 22dec-2020 | Read aloud pdf files with TTS voices |  |

**Whether the Implementation and deployment of the project idea (yes/no)**

a) Has Social benefits. (yes)

b) Has Environmental Benefits.(no)

c) Considers health, safety, legal and cultural issues. (no)

d) Considers sustainable development (economic development that is conducted without depletion of natural resources). (no)

e) Applies ethical principles while selecting project (not to steal other’s project idea, code and documents). (yes)

f) Commits to professional ethics and responsibilities and norms of the engineering practice. (yes)

g) Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools. (yes)

h) Identify, formulate, review research literature, and analyze engineering problems reaching substantiated conclusions. (yes)

**Technological know-how required for proposed project idea:**

a) **Flutter** and **Dart** for mobile app development.

b) **Firebase** for cloud storage.

c) **pub.dev** plugins for permission handling and speech recognition etc.

**Key Personnel and their expertise**

|  |  |
| --- | --- |
| **Student Name and Enrollment No.** | **Technical Expertise** |
| Sahaj Makwana(0827CI191049) | C, C++, MySQL , Python , Flutter , Dart |
| Snehal Singh Solanki (0827CI191056) | C, C++, MySQL , Python, HTML, CSS, Flutter , Dart |
| Prof. Simarjeet Singh Bhatia | C, C++, CSS, Java, JavaScript, HTML, Python |

**Proposed Timetable**

|  |  |  |
| --- | --- | --- |
|  | **Description of Work** | **Expected no. of weeks to complete the module** |
| **Module One** | UI Designing | 2 weeks |
| **Module Two** | Implementation of File Manager | 2 weeks |
| **Module Three** | AI | 4 weeks |

**Project Benefits:**

**Main Focus**

**Operating pdf on speech instruction** (incorporating ML) and these speech instructions may perform following functions.

* + Go to a Specific page number.
  + Read aloud the page.
  + Read aloud from specific part of the page.

**Search bar** to search any file in the storage

Division of complete storage into **categories** viz. downloads, documents, audio, video etc..

Sorting files (including most possible ways of sorting).

Proper file manager system.

Light and dark mode.

**References:**

Pub.dev

Stack overflow

Flutter docs

Firebase docs

Github.com

Youtube.com

Google.com

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