**TITLE: HANDY SWIFT SCANNER**

**ABSTRACT:**

Digitization of an enormous amount of text and documents is necessary at a huge pace to keep them from damage and make them available for upcoming generations who might lose interest or get disconnected from the texts if they are not accessible while relevant. Summary: OCR stands for "Optical Character Recognition." It is a technology that recognizes text within a digital image. It is commonly used to recognize text in scanned documents and images. OCR software can be used to convert a physical paper document or an image into an accessible electronic version with text. It can assist in the fast digitization of archival documents. The amount of archival data held by the government is enormous. Finding the document at the right time is time-consuming. It's also challenging to safeguard the data.

**OBJECTIVES :**

The objectives are

1. Preserving archival documents.

2. Efficient and easy search of documents

3. Tesseract OCR (Fast Recognition)

4. Fast digitalization of archival documents

5. Time efficiency

6. To safeguard the data

**Working:**

using Raspberry pi 4 and pi cam as the hardware to scan the document using OCR(Optical Character Recognition), many OCRs will let you extract text from images on any device. All you need is a Portable Device we provide to start scanning the images to a text document. We have tried many online OCR tools But those OCRs have less speed efficient, so we used Tesseract OCR which is one of the fastest OCRs gave the best results for all the images we used. The service is completely free and very easy to embed.

**Python Libraries:**

To do the process of scanning the data we use several python libraries such as pandas, open cv, Num py, Pillows, etc...

**Additional Files and Software:**

We use an additional file to save data of physical documents to be saved in Database or other fastest data storing techniques, now we use DataBase files to query the elements given by the user, which leads to faster search results. And to display every detail we will create a

software to access it and view it by external devices.