

# Pocket NERD

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**Abstract:** *Pocket Nerd Is a Student and Office Helper that Allows The User to create CVs and Reports that he can Save On Their phone and Later have a Capability of creating an Automatic Application Letter If They want to apply for a Job via Email. This is based on Research that shows that lots of people in Malawi and Worldwide don't Know How to Create CVs and Letters therefore this will take the user step by step and show them how to write a CV and Later Create a Job Application Letter by a Push of a Button and share them to companies or keep them for later use. Furthermore it will include Optical character recognition powered by an Artificial intelligence API to scan raw handwritten documents into the application.*

**Keywords:** Uniform Resource Locator, Data Flow Diagram, C Sharp, Integrated development environment.

## I. INTRODUCTION

Pocket Nerd Is a Student and Office Helper that Allows The User to create CVs and Reports that he can Save On Their phone and Later have a Capability of creating an Automatic Application Letter If They want to apply for a Job via Email.

### 1.1 Objectives

#### **Create and Guide The User into CV Creation Process**

A simple walkthrough by the app will be telling users when and what to do in order to come up with the best results possible.

#### **Help Scan a document using OCR technology to import the data in already existing CV templates**

For already existing documents can be scanned using the camera and imported in already existing formats that will save the user time to rewrite the while document again.

#### **Create Application letters with one button**

After the user finishes writing a letter they can choose to write a letter and that is automatically done using a button click.

#### **Export and share the CV and Letter Documents after creation**

Documents can be exported and shared through email to jobs and companies you want to apply to.

### 1.2 System Description

The System has 4 main Uses with CV and Letter creation as the main purposes of the application or the system itself. The user has 4 options as they open the application they have 4 modules which are CV creation, Letters, Report and simple speech writing. The user can choose between different samples provided by the application, the samples will be updated every month. When available the user can have a large pool of CV samples to choose from. All the saved data is saved on the SQLite database that works with the app.

## II. LITERATURE REVIEW

### **Microsoft Word Literature review by Raymond M & Miguel T done in 2019**

Microsoft Word is a powerful software for document creation, editing and management purposes. It provides all the necessary features like drawing tools, spelling & grammar, giving access to a word document is not as easy as with Google Docs. Also, lay outing is sometimes really infuriating. Also, Google Docs can be used for free, in contrast to Word. It's very expensive compared to some other word processor applications such as google docs.

**Intelligent CV literature review by John Smith. In 2019**

It's an Application with Beautiful ready-to-use resume templates, all types of professional and modern templates are available. User friendly and available in multiple platforms such as web and mobile. Text Formatting You can change the font size, color, and spacing and print settings. You can download the saved file in PDF which is the widely used file format for resume Contains Lots of Ads because its free therefore the users will have to put up with multiple ads that allows the company to proceed providing free services.

**LinkedIn review done by Lorraine T in 2021**

A professionally written LinkedIn profile allows you to create an online professional brand which can help open doors to opportunities and networks that you may not have been aware of without the help of social media. It Compiles all of the written CVs by professionals and creates you a CV based on your profile in a single click and are able to download and publish it. The main disadvantage of LinkedIn is that you can never use it without the internet, Risk of identity theft there are loads of personal information that you have to display on your profile for prospective employers to see. You stand a risk of losing important information to the public, resulting in identity theft.

**CV Builder+ Professional (PDF) Literature review done by Matt Simons in 2022**

It Is Safer than other CV builders because it doesn't put user information out there it remains confidential with the user by the use of a local database.

Easy to use Very easy to use with amazing tips Professional looking finish this allows you to have a chance of being selected for a Job, In App Purchases that reaches to 6\$ and this is very expensive for certain demos of people that can't afford a 6\$ monthly fee. It's only available in a single platform which is IOS and this allows only iPhone and iPad Users to use the App.

**Canvas Builder Literature review done by Maria L 2021**

Used to design our beautiful business cards and all of our forms. If you don't have a dedicated graphics artist or marketing team on staff, this is a great product with easy to use features for most of your needs. The ability to import my CAD files with very few issues. The cost/performance is good compared with the other Graphics packages available (especially when there is an offer on) In App Purchases that reaches to 6\$ requires premium membership to fully access it requires internet to work. Multiple non beta tested version requires the user to relearn the app certain times

**III. OBJECTIVES**

The main objectives of the project include the following:

**Create and Guide The User into CV Creation Process**

A simple walkthrough by the app will be telling users when and what to do in order to come up with the best results possible.

**Help Scan a document using OCR technology to import the data in already existing CV templates**

For already existing documents can be scanned using the camera and imported in already existing formats that will save the user time to rewrite the while document again.

**Create Application letters with one button**

After the user finishes writing a letter they can choose to write a letter and that is automatically done using a button click.

**Export and share the CV and Letter Documents after creation**

Documents can be exported and shared through email to jobs and companies you want to apply to.

**IV. METHODOLOGIES**

The Pocket Nerd Application main use is to collect the user data that is provided by the user inform of data collection and therefore data is saved then later manipulated using algorithms to produce CVs and Automatic letters that can be shared and sent on the cloud in Firebase.

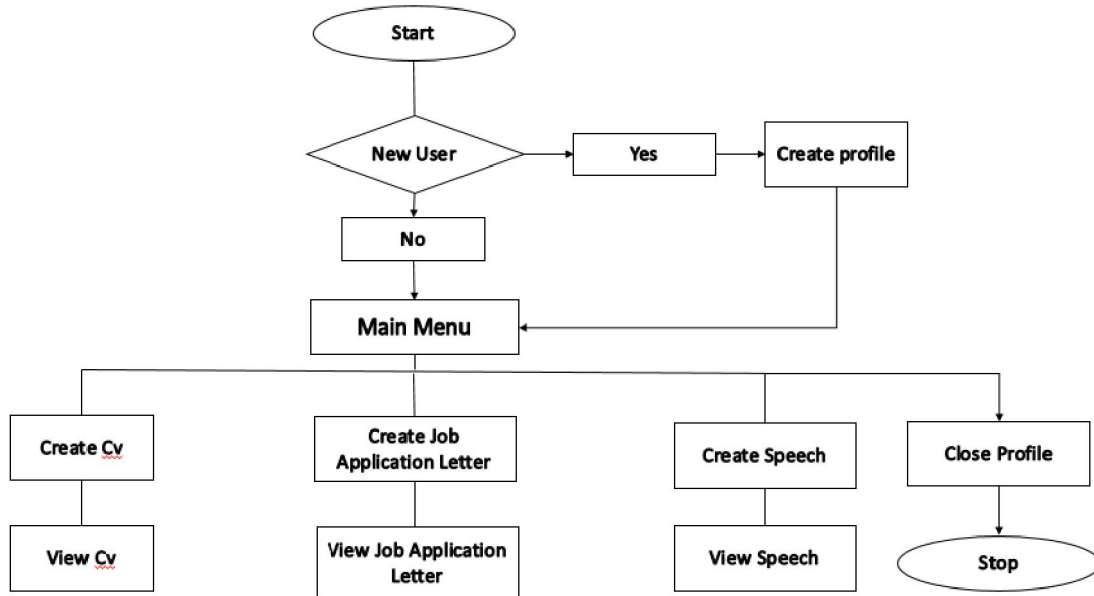


Fig.1 Flow Diagram

**V. MODULES**

Modules included in the Application are as follows:

**Menu**

This is the Holder of all the Main tasks like application letter, CV writing, report making and Speech Writing.

**CV creation page**

- Simple CV: This a page create simple CV it contains small but important details for quick CV writing.
- Complex CV: it includes more detailed information in your CV that the employer would be interested in.
- Created CV List: This includes the created CVs that the user can view, they are saved on the device locally for security purposes.
- Optical Character recognition: used to import already existing documents by the use of optical character recognition detection algorithm.

**Letter Creation**

- Letter List: this is the list of created letters that were created automatically by the use of the CV information.
- Letter Creation page: Contains a dropdown list that allows you to select from a list of CVs and Imports information from them and automatically writes a letter with a click of a button.

VI. SCREENSHOTS

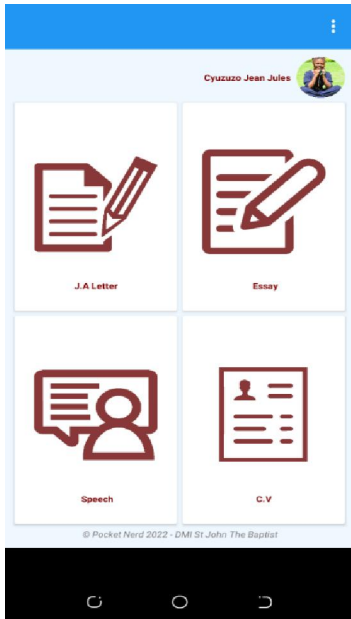


Fig 2.1 Main Menu

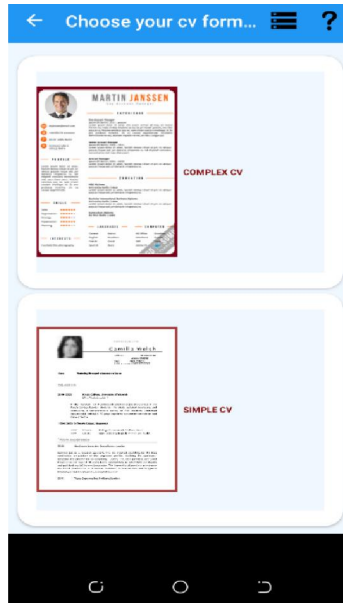


Fig 2.2 CV Menu

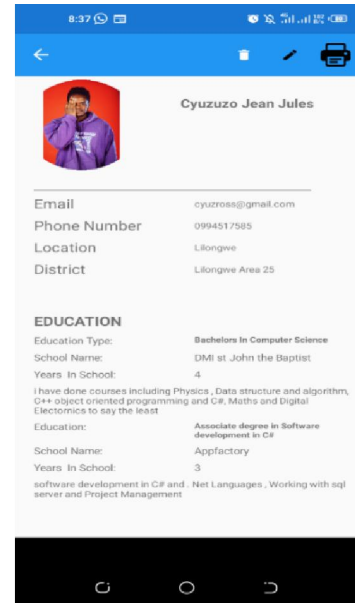


Fig 2.3 CVOutput

VII. CONCLUSION

Pocket Nerdcan be used in various fields that can be both academic and non-academic. The program can be accessed by anyone wishing to have a flexible way of writing Cvs anywhere and anytime with their mobile phones. This app is super easy to use and contains lots of automatic stuffs that only requires the user to just click a button and have tasks carried out. The simple easy to use User interface that’s friendly to new users will allow simpler interaction which differs from the other scary user interfaces provided by other apps.

It will increase the Accuracy in Job Application writing and CV writing because it was created using collected research information on what the majority of companies need

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