# Samuel Kennedy Documentation

## Use of program

The Use of this program is to create, edit, analyse, and search for notes. It also allows to create edit and assign notes to users.

## Maintenance

The program is well maintained with the data entry saved to a file to keep it secure and up to date.

## Various design decisions

An important design decision was formatting the input, I decided to have it horizontally selection. For the API I run out of time so just had functionality without design.

## Aspects of the application

Certain aspects of the application is that the API posts and saves to the database. Another aspect is that it can search for a note based on ‘like’.

## Features of Enterprise notes

One feature that is on the client but not the API is the search function. This displays all notes that are like the entered value. A con of this is entering and receiving data does not look good.

## Persistent data

I made sample data first to show what it should look like and allow for testing.

## API hosting

I first tested on multiple browsers such as google chrome, Microsoft edge and opera gx. They all worked. I worked on windows so that worked but I couldn't test on mac or linux as I didn’t have access to it.

## Quick Start Guide

You first need to create the database and insert the data. Then change the username and password to suit. A library needed is PostgreSQL first to instal. Also admin is required to work properly. Then need to make sure the directory is right. Then either run the client side or API side. Through ‘go run main.go’

Or for the API side ‘go run main.go’.

## Missing features

A feature I missed was to analyze notes. I was confused on what it wanted and where to start programming for it. Another feature I lacked in was sharing user permission such as read/edit between users. I ran out of time during the end and had to choose between API and user permission and choose API as I had more of an idea and more confident. So my user permissions was lacking

## Data Dictionary

|  |  |  |
| --- | --- | --- |
| Variable Name | Type | Desciption |
| UserID | Serial PRIMARY KEY | Auto generated primary key for users table |
| FirstName | VARCHAR | First name for the user |
| LastName | VARCHAR | Last name for the user |
| Age | VARCHAR | Had to set it as VARCHAR as had a problem in the API getting it to work as an INT |
| PhoneNumber | VARCHAR | Same Problem as above |
| EmailAddress | VARCHAR | Email address for user |
| NoteID | Serial PRIMARY KEY | Auto generated primary key for notes table |
| Name | VARCHAR | Name of Note |
| Information | VARCHAR | Information about the note |
| Time | Time | Time note was created |
| Status | VARCHAR | Status of the note such as ‘doing’, ‘done’ |
| Delegation | VARCHAR | Who is responsible for the note |
| Users | VARCHAR | All users with access to it, such as read/write. |
| associationsID | Serial PRIMARY KEY | Auto generated primary key for associations table |
| UserPemrs | VARCHAR | Options such as read/write |