

Notepost Program Developer Documentation

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Abstract

This is the complete source code of the system as at the date above. Visit <https://github.com/melkisedek/notepost> for updated content that might not have been in this document.

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1 Installation

Notepost is a c program for my term project (PPR - procedural programming) at the polytechnic of Namibia.

1.1 Compile from source

To compile it from source, connect to the internet and type the following in your terminal to receive the source code. Ignore the '\$' sign, it represents your prompt.

```
$ git clone https://github.com/melkisedek/notepost.git
```

The code will be in a folder called notepost

1.2 Building the executable

To build the code type:

```
$ cd notepost
$ make notepost
```

Type the following to run it.

```
$ ./notepost --start
```

2 Developing

You need to be on a machine that supports the POSIX standard, such as linux and other Unixes. Developing this code is possible on windows if you are using Cygwin¹ or MinGW² environments. You can get the source code by following the above steps. There are several *make*³ targets to assist development:

- With no arguments *make* compiles all the sources to an executable called *notepost*

```
make notepost
```

- does the same as make with no arguments passed.

```
make clean
```

- removes all .o files and the notepost executable

```
make clean_all
```

- removes all .o , .data , temporary files and the notepost executable

3 Source code Description

The root of the *notepost* folder contains the notepost code source files which are *encrypt.c*, *Makefile*, *members.c*, *note_ops.c*, *README.md*, *start.c* and *user_operations.c*. The *headers* folders contains the headers *main.h* and *common.h*. The *docs* folder contains partial documentation of the system and their supporting files. The *data* folder is meant for data files that system creates, however it's current not being used yet. The *stub* folder contains the source code of a client and server application prototype that will be used for system later.

¹Go to www.cygwin.com install cygwin

²Visit www.mingw.org to install it

³A utility that automatically builds executable programs and libraries from source code by reading files called makefiles.

3.1 Notepost's source code

The following is the code for notepost.