DOCUMENTATION FOR PROJECT

PHONE BOOK APPLICATION

This documentation provides a step-by-step guide to setting up the development environment and compiling a GTK+ C program for a Phone Book application. The project is designed to run on Windows using MSYS2, GTK+, and libcurl.

STEP 1: Install MSYS2

MSYS2 is a software distribution and development environment for Windows that provides a Unix-like shell and a package manager (pacman). It is required to build and compile the project.

1. Download MSYS2

- Visit the official MSYS2 website: [https://www.msys2.org/](https://www.msys2.org/).

- Download the installer for your system (32-bit or 64-bit).

2. Install MSYS2:

3. Update the Package Manager:

STEP 2: Install GTK+ on Windows

GTK+ is a toolkit for creating graphical user interfaces. It is required to build the Phone Book application.

1.Install GTK+ and Dependencies:

2. Verify Installation

STEP 3: Download and Install libcurl for Windows

1. Install libcurl:

2. Verify Installation:

STEP 4: Add MSYS2 to Windows PATH

To use MSYS2 tools (like `gcc` and `pkg-config`) from the Windows Command Prompt or other terminals, you

need to add the MSYS2 binary directories to your system's PATH.

1. Locate MSYS2 Binaries:

- The MSYS2 binaries are typically located in:

- `C:\msys64\mingw64\bin` (for 64-bit tools).

- `C:\msys64\usr\bin` (for core MSYS2 tools).

2.Add to PATH:

- Open the Start menu, search for "Environment Variables," and click "Edit the system environment variables."

- In the System Properties window, click "Environment Variables."

- Under "System variables," find the `Path` variable and click "Edit."

- Add the paths to the MSYS2 binaries (e.g., `C:\msys64\mingw64\bin` and `C:\msys64\usr\bin`).

- Click "OK" to save the changes.

3. Verify PATH Configuration:

STEP 5: Compile Your GTK+ C Program\*\*

Once the environment is set up, you can compile your GTK+ C program for the Phone Book application.

This concludes the documentation for setting up and compiling the Phone Book application using GTK+ on

Windows. If you have any questions or encounter issues, refer to the official documentation for MSYS2, GTK+,

and libcurl.