Milestone #6
NetBSD Wifi Browser Project 2022
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Current Project State

API - The API at this time is functionally feature complete. The work left to do is to improve the output of the listing functions in particular to simplify the work of interface implementers, and to make changes or fix bugs in response to anything that comes up during the CLI and TUI development this quarter.

CLI - The CLI will need to be redeveloped using the new CLI, or the previously existing CLI. I'm still not sure what is wrong with the CLI I developed. If we can use the previously existing CLI, then the CLI portion is already completed. Otherwise, I will need to implement the commands from the API in the new CLI.

TLI - The TUI has the design layout and skeleton completely complete, the main focus for the upcoming Milestone is to start implementing the connection with the API and implement the new naming constructs. Once the implementation is complete testing will begin from there.

Quarter Tasks

Tasks will be stricken when they are completed like so: ~~Task~~

API
Milestone 7 April 20

- Improve list output for listAvailable and listConfigured

- Move testing program out of `src/` and into `test/`

Milestone 8-9 May 18

- Fix bugs related to CLI and TUI work

CLI
Milestone 7 April 20

- Enhance the display of the CLI.

Milestone 8 May 4

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Milestone 6 May 18

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TUI

Milestone 7 April 20

- Have API implementation at least 50

- Have a TUI that works and is able to be interacted with

Milestone 8 May 4

- Have API fully implementet

- TUI is working completley besides bugs

Milestone 6 May 18

- Go through testing proccess to remove all bugs from TUI

Testing Plan

API Testing

- Ensure list output modifications has not affected previous successful test results

CLI Testing

- User commands are processed correctly

- Print list of available networks to stdout

- Print list of configured networks to stdout

- Connect to network of provided ssid (unsecured)

- Connect to secured network of provided ssid:

    - Prompt for passkey

- Connect to secured network of provided ssid and passkey

- Connect to EAP network of provided ssid:

    - Prompt for username
    - Prompt for password

- Connect to manually configured network

    - Prompt for ssid
    - Create a new network configuration using ssid; select as current configuration
    - Commands to add information to configuration

- Edit a configured network

    - Prompt for ssid

– Focus network configuration of the specified ssid

   – Commands to edit/add information to the configuration

- Change default configuration file

- Use specified configuration file

TUI Testing

- Display list of available networks

- Display list of configured networks

- when selecting a specific network, show networks details (if any availabl)

- Connect to network, secure or not. (Prompt for passkey is secure network)

- Able to connect to manually configured networks

Done this Milestone

Kevin: 2 hours 30 minutes

- Finalized design layout Plan

- Finalized skeleton setup

- Brainstorm new naming ideas for TUI

- Team meeting and client meeting

Dylan: 4 hours 45 minutes

- Improved API list output $\rightarrow$ could still use more improvement

- Created man page documentation for the API

- Renamed the API to `Surf`

- Turned `Surf` into a *real* library (a `.a` file)

- Initialized and ensured the completion of Milestone 6

- Managed customer contact and meeting scheduling

- Team meeting and client meeting

Stephen: 4 hours

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