Note 1: Reject input that contains whitespace, print error, and prompt again

Note 2: Set to lowercase and validate as email address

Actions:

Command Line Argument Parse

File Create

File Open

File Write

File Read

String Encryption

Console Input

Console Output

Data Parse

Data Storage

Data Lookup (email)

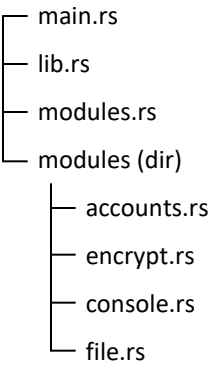Data Lookup (email and password)

Data Add (email and password)

Data Remove

Custom Data Types:

~~Account (email, password)~~

Accounts (list of type Account)

> Use a Hash Table to store values

- main.rs
- lib.rs
- modules.rs
- modules (dir)
  - accounts.rs
  - encrypt.rs
  - console.rs
  - file.rs

Lib

+ run()

Accounts

- list: HashMap

+ new(data: &str) → Result<Accounts, &str>
+ add(email: &str, password: &str) → bool
+ remove(email: &str, password: &str) → bool
+ check(email: &str, password: &str) → bool
+ check_email(email: &str) → bool
+ get_password(email: &str) → Result<String, &str>
+ update(email: &str, old: &str, new: &str) → bool
+ as_string() → Option<String>
- parse() → Option<HashMap>

Encrypt

+ encrypt(data: &str) → String
+ decrypt(data: &str) → String

Console

+ input() → Result<String, &str>
+ output(data: &str)

File

+ read(filename: &str) → Result<String, &str>
+ write(filename: &str, data: &str) → Result<_, &str>