# PROGRESS REPORT
## OPTIMAIL

**Dan Nusraty, Christian Johnson, Dylan McGill**

# PROJECT SUMMARY

"Application for CGA Mailroom to auto-notify cadets of packages and track pickup."

# PROJECT SUMMARY

- Maintain a record of Cadets and associated info.

- Record incoming packages, automatically associate with Cadets, automatically notify Cadets by email.

- Simple data interface for easy search and retrieval.

# KEY FEATURES

## Graphical Interface

- Simple, organized structure for fast navigation
- Tab layout for function compartmentalization
- Comprehensive data overview
- High contrast colors for easy interpretation

## Simple Database Structure

- Fast data access
- Versatile search-ability
- Compact and light on resources
- Easily scalable

# REQUIREMENTS

## Functional

- Accept data entry
- Record Tracking and box number for packages
- Add info. Into SQL database
- Associate packages with cadet info.
- Notify upon package arrival
- Record package status
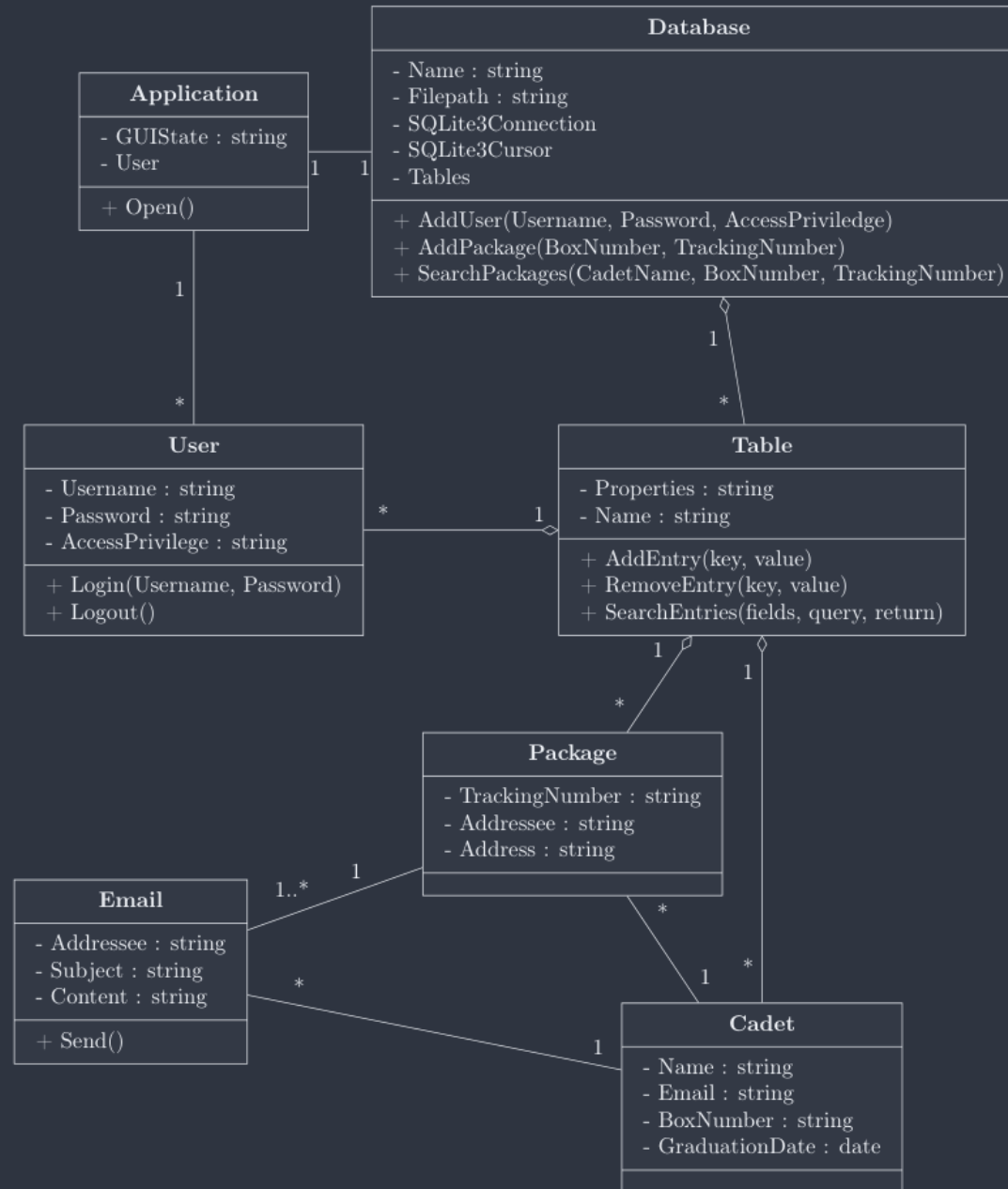- Search database and display results

## Non-Functional

- Will not miss-associate packages
- Will not allow entries with missing data
- Navigable within 5 "clicks"
- Search will take no longer than 10 seconds
- Will never fail to retrieve cadet info, given sufficient search info.

# REQUIREMENTS

**Provided from feedback**

- The system should allow specific classifications for individual packages, such as "fragile", "perishable", etc.
- The system should provide a secure authorization system to ensure users are only able to access specified material.
- The system should allow the user to generate reports based on stored data, allowing for in-depth data analysis.
- The system should feature a dashboard with trends, totals, and data breakdowns for a quick overview.

# CLASS DIAGRAM

# CURRENT PROGRESS

# USCGA Mailroom

## Enter Login

Username

Password

Login

Home

Data

Manage DB

Reports

Settings

Welcome admin

March 06th 2024

There are currently 3 unretrieved packages.

0 Packages have been picked up today

| Name | Date Received |
|------|---------------|
| TEST_NAME | 2024Feb16 |
| Test Name | 2024Feb20 |
| Test Name | 2024Feb20 |

| Name | Date Retrieved |
|------|----------------|

## "Manage Database" Tab

- Allow the user to manually edit the database

- Functionality like "Delete Entry", "Add Entry", and "Edit Entries"

- Will be limited to the current database schema

## "Reports" Tab

- Provide the user with several reporting options

- Generate data plots and allow user to sort or filter categories on the X-axis

- Examples include average time to pick up packages, or average number of packages per week. Either could be sorted by class or company

## "Settings" Tab

- Allow the user to change simple settings (like dark mode)

- Allow the admin to manage user settings, add new users, change the database file, back up the database, etc.

# NEXT STEPS

# QUESTIONS