Software Requirements Specification

for

Outlook 2

Version 1.0 approved

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Group 5

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1.   Introduction

1.1   Purpose

Outlook 2 v1.0 is an email client with all the basic functionality any email client should have. This includes the ability to log in to an account, access emails, compose, edit, send emails, search emails, forward emails, and send attachments via email. This SRS covers the entire scope of the Outlook 2 email client.

1.2   Document Conventions

- <mark>Yellow highlight</mark>
    - Most important item in a list
- *Italics*
    - Reference to a section of the SRS

1.3   Intended Audience and Reading

This document is intended for developers and users. It covers the goals and functions of the software, as well as the platforms it runs on, and system requirements. Users should read the purpose *(1.1)*, list of features *(2.2)*, and system requirements *(section 4)*. Developers should read the entire document from top to bottom in order to gain an understanding of what they are working on.

1.4   Product Scope

The goal of Outlook 2 is to provide a basic email client with all of the functionality you would expect but nothing extra. It aims to be lightweight and easy to use. While it lacks some advanced features that other email clients offer, it cannot be beat in its efficiency and speed. With this client you will be able to quickly and efficiently communicate with coworkers.

1.5   References

1. Pressman, Roger S. *Software Engineering: A Practitioner's Approach*. McGraw Hill., 2020.
2. "The 2020 Scrum Guide." *Scrum Guide | Scrum Guides*, scrumguides.org/scrum-guide.html.

2.   Overall Description

2.1   Product Perspective

As implied by the name, Outlook 2 is a sequel to the popular email client Outlook. However, instead of adding more features or going for a similar client with a different look, Outlook 2 is a more barebones client with only basic functionality. It is designed for users who want to quickly send emails but don't need all of the fancy features Outlook provides.

2.2   Product Functions

- Login to password protected account
- Access Emails
- Search Emails
- Send Emails
- Send Emails with Attachments

2.3   User Classes and Characteristics

- Administrator
  - The people who have full access to the entire system
- User
  - The people with an account who are able to access all of the features the client has to offer
- Guest
  - The people who do not have an account yet and must create an account in order to use the client

2.4   Operating Environment

- Windows 10

This software was tested on systems with the following specifications:
- System 1
  - 8 Gb RAM
  - Intel(R) Core(™) i5-6300HQ CPU
- System 2
  - 16 Gb RAM
  - Intel(R) Core(TM) i5-3320M CPU @ 2.60GHz, 2601 Mhz, 2 Core(s), 4 Logical Processor(s)

2.5   Design and Implementation Constraints

- 16 Gb RAM
- Python 3.9

3.   System Features

3.1   User Login

4.1.1   Description and Priority

- Priority: High

This feature allows a user to login to their profile where they can privately access their emails.

4.1.2   Stimulus/Response Sequences

Users must use the correct unique ID and password combination to access the email client.

4.1.3   Functional Requirements

REQ-1: Space to enter username

REQ-2: Space to enter password

REQ-3: Compare to stored credentials

REQ-4: Clear entries if credentials are invalid

REQ-5: Offer link to reset Password/Username

3.2   Access Emails

4.1.1   Description and Priority

- Priority: High

Function to allow logged in users to view sent and received emails.

4.1.2   Stimulus/Response Sequences

After logging in a user will be able to access all their emails which will be sorted into helpful folders such as; Inbox, Sent, Junk, Deleted.

4.1.3   Functional Requirements

REQ-1: Labeled Folders for email sorting

REQ-2: Emails sorted into Folders

REQ-3: Ability to move emails between folders

3.3   Email Search

4.1.1   Description and Priority

- Priority: Medium

Gives the users the ability to quickly and easily search emails for keywords or specific senders.

4.1.2   Stimulus/Response Sequences

After receiving a search request the client will sort all entries with that term and display them in chronological order.

4.1.3   Functional Requirements

REQ-1: Space for user-requested search term

REQ-2: Ability to search all entries for search term

REQ-3: ability to display all emails fitting search criteria

3.4   Send Emails (w/Attachments)

4.1.1   Description and Priority

- Priority: High

Ability for a user to send an email with a subject and body to a separate address.

4.1.2   Stimulus/Response Sequences

Users must insert a recipient, a message subject, and a message body to send an email. afterwards the client completes the action requested by the user.

4.1.3 Functional Requirements

REQ-1: Ability to send emails to designated recipients

REQ-2: Ability to forward emails

REQ-3: Ability to send email to multiple recipients

REQ-4: Ability to CC another address in an email

REQ-5: Ability to send attachment

4. Other Nonfunctional Requirements

4.1 Performance Requirements

This client is only available to Windows 10 users because it is the only operating system offered by corporate. Because it is written in Python, Python 3.9 must be installed on the computers running the client.

4.2 Safety Requirements

- Avoid excessive use of the client

4.3 Security Requirements

- Do not tell anyone else your password
- Do not enter your account information on shady sites
- Do not click on links from users you don't recognize

4.4 Software Quality Attributes

Outlook 2 is designed to be easily testable and maintainable by developers. It is written using refactoring principles to allow for easy maintenance. It is open source to allow transparency. It is reusable to allow users to send hundreds of emails without error. It is not very portable as it is only available on Windows 10.

5. Other Requirements

A full list of required packages is to be released upon version release.

Appendix A: Glossary

SRS - software requirements specification

Appendix B: To Be Determined List

- What Python packages will be used