ENGS110  
Lilit Asatryan  
11 May 2022

Concept of Operations (ConOps)

Base64

1.0 Introduction

1.1 Project Description

The project aims to encode the file provided by the user with the help of base64. The code will take the text from the file, convert it into base64 and give the encoded result.

1.1.1 Background

During centuries people have used different methods to encode the text they want to send in order to keep it private and secure. Base64 in one of the methods. It will help to achieve a secure code which will be hard to decode for a stranger.

1.1.2 Assumptions and Constraints

Some people use common methods of encoding such as morse alphabet or Caesar cipher, which is easy to decode. Meanwhile for majority it is even hard to understand the logic of base64 then to decode it.

1.2 Overview of the Envisioned System

1.2.1 Overview

The project will work on Base64. The user will insert the file. The code will go through the file, take text from it, encode with Base64, and give the output which will be the encoded text of the file.

### **1.2.2 System Scope**

It will be a desktop program which can be run on Windows OS. The program will be written in C language.

# 2.0 Documents

## 2.1 Applicable Documents

The only material needed is the file provided by the user, which should be in English.

## 2.2 Reference Documents

No reference documents.

# 3.0 Description of Envisioned System

## 3.1 Needs, Goals and Objectives of Envisioned System

Need: The text of the file should be encoded by some method.

Goal: Create a desktop program which will encode the provided text with base64, and give back to the user.