

**Project Design Documentation**

**Login system**

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**Table of Contents**



[***Introduction 3***](#_heading=h.gjdgxs)

[***Project Overview 3***](#_heading=h.30j0zll)

[***Design Considerations 3***](#_heading=h.1fob9te)

[**Assumptions and Dependencies: 3**](#_heading=h.3znysh7)

[**General Constraints: 3**](#_heading=h.2et92p0)

[**Development Plan: 3**](#_heading=h.tyjcwt)

[***Architectural Strategies 4***](#_heading=h.3dy6vkm)

[***System Architecture 4***](#_heading=h.1t3h5sf)

[***Detailed System Design 4***](#_heading=h.4d34og8)

# Introduction

*The Project details following give clarity to how it works and each implementation to the program step by step*

# Project Overview

*This program was to let users login or make an account to create or access notes in a basic program, using c++ as the primary programming language.* 

# Design Considerations



## Assumptions and Dependencies:

*the dependencies where on the created class, file editing, and character checks*

## General Constraints:

*the main constraint was when editing the csv file in different ways*

## Development Plan:

*The program was structured to follow the menu statement by statement moving to and from extra functions when needed*

# Architectural Strategies



*The program uses a switch statement and classes to determine the following function when at the main menu. After a function is selected depending on the action each major action is segmented into a different function. Some functions are repeats of the same actions using different variables.*

# System Architecture

*Main menu*

*Login page, sign up page or admin page*

*create or view notes option*

# Detailed System Design

*Describe functions design for each Feature*

*Main*

*- Program start and options menu*

*Login*

* *when chosen to login in the option to login using either the username or email is presented*
  + *if the username is selected the program will to 2 checks one for general string comparison and another for character comparison*
  + *if the email is selected the program will also perform the same 2 checks a string comparison and a character comparison*

*Create*

* *when chosen the program will allow the user to create a new user entry*
  + *first it will take the username and check for repeat names*
  + *second it will take the email address with the option for repeat addresses checking for the “@\*\*\*\*\*.\*\*\*”*
  + *lastly it will ask for the password checking for casesensitivity by character*

*admin*

* *when chosen the program will ask for the admin username and password and open the .csv file with all the users and user details*

*Input*

*- Main – menu option (input)*

*- Login – username or email, and corresponding password*

*- Create – chosen username, email, and password*

*- admin – admin username, and admin password*

*Output*

*- Main – sends the user to the resulting function*

*- Login – success or failure of login entry*

*- Create – success or failure of account creation*

*- admin – user csv file list*

*Process*

*- Main – presents a basic menu for the user to select the following action*

*- Login – checks csv for entered username or email and corresponding password for entry*

*- Create – accepts the user input (username, email, and password) and adds it to the csv file of previous users*

*- Admin – accepts the admin username and password to read the csv file*

*Purpose*

*- Main – display an option menu*

*- Login – to check and compare the entered username or email and password to the available entries previously stored*

*- Create – takes and records the entered username or email and password and stores it in the csv file*

*- Admin – opens the csv file with user entries*