Project Outline

# Prerequisite

## Setup MYSQL

* Install mysql-server
* Create service account and privileges
* Create database and table

## Install Python package

* mysql-connector-python
* hashlib
* os

# Code Outline

# Configure Database

# Configure Menu

# User Register

# Login

# Logout

# Add Role

# Quit

# Print Menu Options

# User Input

# Validator

# User Register

# Print required field (minimum field)

# Username (min=4)

# Password (min=8)

# User Input

# Username

# Password

# Validator

# Salt generate

# Encryption (pbkdf2\_hmac)

# Create cursor

# Execute query

# Commit to DB

# Close connection

# Login

# Get Input

# Username

# Password

# Exception handling

# Create cursor

# Get user by username

# Get stored hash

# Check Failed attempt (< 5)

# Passed

# Encryption Hash (pbkdf2\_hmac)

# Compare Hash

# Passed

# Close connection

# Check login status

# Logout

# Add Role

# Get login status

# Create cursor

# Validate Role

# Passed

# User Input

# Username

# Role (Admin / Editor)

# Validator

# Execute query

# Commit to DB

# Close connection

# Quit