Notler

A Notes Application

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Chapter-1: Introduction

1.Preface

In today's fast developing world we keep on getting a lot of work and we tend to maintain a lot of short notes or memos. Now as the technology started developing we moved on to digital notes and memos but they were not synchronised between our devices, so to solve this problem we came up with a solution and that is nothing but a cloud synchronised notes application that can be accessed from any device and from anywhere and at any time.

2.Abstract

There are already a lot of notes application in the market that allows people to make and save notes or memos but none of them synchronize the notes between multiple devices which was a major drawback of such applications.

Our main aim with this project was to remove this drawback and keep the notes synchronized between multiple devices so that the users don't have to check different devices for a particular note.

We achieved this by use of a technology called cloud computing which allowed us to make our application globally available and on every device that has a web browser.

3.Project Overview

Notler is a cloud based notes application that can be accessed in nearly all devices that has a web browser in it.

This program stores user's notes and shows them on demand.

The program will create a database where it'll be storing user's login information and user's notes.

4. Administrative and user modules

When someone tries to access this program firstly they'll be asked to sign in or sign up which is accessed or stored in a MySQL database respectively. Then the user will be taken to the home screen where all of their notes will be displayed and they can either add new or edit, from there they can go to settings update their credentials or go to their profile to access those credentials and after using they can simply logout of the application. The users will be automatically logged in if they don't log out of the program

5. Features

The features of the program are as follows:

- Cloud synchronization
- Updating existing note
- Available in almost every device
- Automatic login
- Profile Photo System

6.Objectives

The objective of this project are:

- 1. Make notes synchronized between devices
- 2. Making the application accessible in all devices that has a web browser in it

Chapter-2: Requirements and Specification

1. User interface

The user interface for this program is created using Python and HTML (Hyper Text Markup Language).

Python in a high level interpreter language and an object oriented programing language which helps programmers to write logical codes for large-scale projects. Unlike other programming languages Python is very user friendly language which makes it a go to language for computer beginners and it is also the most used/learned programing language as of December 2021

Hyper Text Markup Language (HTML) is a standard markup language for documents designed to be displayed in a web browser. It can also be assisted by technologies such as Cascading Style Sheets (CSS) and Python

2. Database

For Database in this project we have used MySQL, MySQL is an opensource Relational Database Management System (RDBMS) which organises data in rows and columns.

MySQL is based on Structured Query Language (SQL) which is a programming language used to create, modify, extract data from a RDBMS

MySQL is an open-source software under GNU License which is made by Oracle popularly known for their programming language JAVA

In this project MySQL database has been used to store user's login information and notes

3. Functions and Modules used

The Function used are as follows:

- 1. app.route()
- 2. app.run()

The Modules user are as follows:

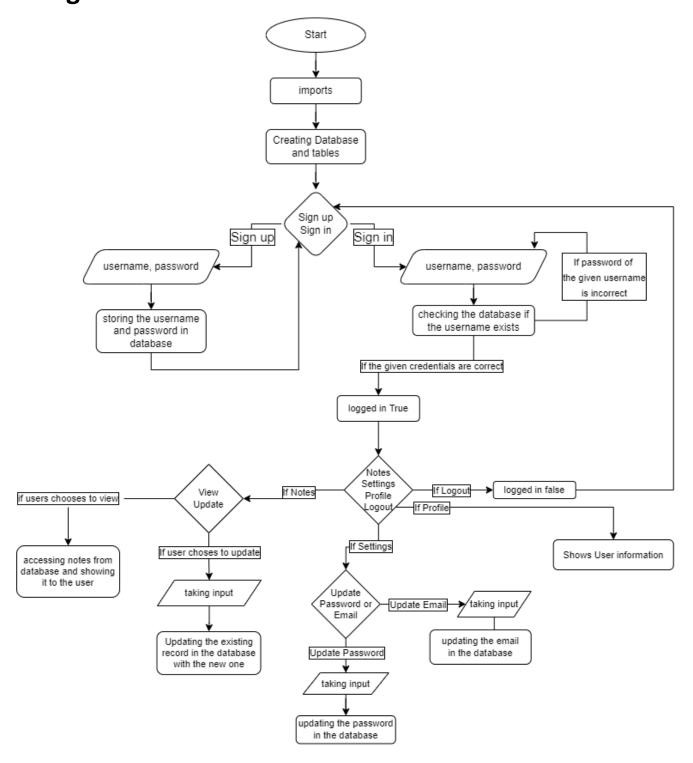
- 1. flask
- 2. flask mysgldb
- 3. mysql.connector
- 4. urllib
- 5. hashlib

Functions and Modules created

The Functions created are as follows:

- 1. accountable this function creates a table in database for storing user information's
- 2. notetable this function creates a table to store notes in it
- 3. main this function manages the automatic login system
- 4. login this function is used to login the user into the application
- 5. signup this function is used to create new user account
- 6. signout this function logs out the user from the app
- 7. home this function takes the user to the main page of the app
- 8. updatenote this function is used to update note
- 9. profile this function is used to take the user to their profile page
- 10. settings this function is used to take the user to the settings menu
- 11. avatar used for profile photo system

4. Algorithm



Chapter-3: Program

msg = 'Incorrect username/password'
 return render_template('signin.html', msg-msg)
return render_template('signin.html')

Main-File

```
1 from flask import *
2 from flask_mysqldb import *
                 from mysqlcreate import accounttable
from mysqlcreate import notetitletable
from mysqlcreate import notetable
from gravatar import avatar
                #creating tables and running it
                 accounttable()
notetittletable()
                  notetable()
                 app = Flask(__name__)
                  app.secret_key = 'Ar7'
                 #mysql database config
app.config['MYSQL_HOST'] = 'sql6.freesqldatabase.com'
app.config['MYSQL_USER'] = 'sql6447629'
app.config['MYSQL_DSSWORD'] = 'MHS4PhTuiJ'
app.config['MYSQL_DB'] = 'sql6447629'
                  mysql = MySQL(app) #Hello
                  @app.route('/')
                  wapp.route( / )
def main():
    username = request.cookies.get('username')
    cursor = mysql.connection.cursor(MySQl.db.cursors.DictCursor)
    cursor.execute('SELECT * FROM account WHERE username = %s', (username, ))
    account = cursor.fetchone()
    if account:
                          if account:
    session['loggedin'] = True
    session['username'] = account['username']
    resume = make_response(redirect('/home'))
    return resume
return render_template('home.html')
                  # Basic Sign In Sign Up Sign Out System
                 @app.route('/signin', methods = ['GET', 'POST'])
      43
44
45
                  def login():
    msg = ''
    if request.method == 'POST' and 'username' in request.form and 'password' in request.form:
                                    request.method == POSI and username in request.form and password in request.form;
username = request.form['sername']
password = request.form['password']
cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
cursor.execute('SELECT * FROM account WHERE username = %s and password = %s', (username, password, ))
account = cursor.fetchone()
if account:
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63
                                              account:
    session['loggedin'] = True
    session['username'] = account['username']
    msg = 'Logged In Sucessfully'
    res = make_response(redirect('/home'))
    res.set_cookie('username',f'{username}',max_age=60*60*24*30)
    return res
    e:
    cookie('password',f'{password}',max_age=60*60*24*30)
    return res
    e:
```

```
@app.route('/signup', methods = ['POST', 'GET'])
                                signup():
msg = ''
color = '
   66
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 68
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77
78
80
81
82
83
84
85
86
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                                 if request.method == 'POST' and 'username' in request.form and 'email' in request.form and 'password' in request.form and 'cnfrmpassword' in request.form:
                                               username = request.form['username
email_id = request.form['email']
                                            password = request.form['password']

password = request.form['password']

note1title = 'Empty Note. Edit to add something'

note3tittle = 'Empty Note. Edit to add something'

note3tittle = 'Empty Note. Edit to add something'

note4tittle = 'Empty Note. Edit to add something'

note5tittle = 'Empty Note. Edit to add something'

note5tittle = 'Empty Note. Edit to add something'

note1 = 'Empty Note. Edit to add something'

note2 = 'Empty Note. Edit to add something'

note3 = 'Empty Note. Edit to add something'

note4 = 'Empty Note. Edit to add something'

note5 = 'Empty Note. Edit to add something'

note6 = 'Empty Note. Edit to add something'

note7 = "Empty Note. Edit to add something'

note8 = 'Empty Note. Edit to add something'

note9 = "Empty Note. Edit to add something'

note9 = "Empty Note. Edit to add something'

note7 = "Empty Note. Edit to add something'

note7 = "Empty Note. Edit to add something'

note8 = "Empty Note. Edit to add something'

note9 = "Empty Note. Edit to add something'

no
                                               if account:

msg = 'Account already exists'

color = 'red-text'
                                              password == Chtrmpassword:
cursor.execute('INSERT INTO account VALUES (%s, %s, %s)', (username, email_id, password))
cursor.execute('INSERT INTO notetittle VALUES (%s, %s, %s, %s, %s, %s)',
| (username, note1tittle, note2tittle, note3tittle, note4tittle, note5tittle))|
cursor.execute('INSERT INTO notes VALUES (%s, %s, %s, %s, %s, %s)', (username, note1, note2, note3, note4, note5))
  94
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97
                                                                          cursor.connection.commit()
msg = 'Account created sucessfully
color = 'green-text'
                                                                            return render_template('home.html', msg=msg, color=color)
                                                                          color =
                                msg = 'You have either not confirmed the password or you might have entered wrong password'
return render_template('signup.html', color=color, msg=msg)
return render_template('signup.html', msg=msg, color=color)
                 @app.route('/signout')
def singout():
    session.pop('loggedin', None)
    session.pop('username', None)
    res = make_response(redirect('/'))
    res.delete_cookie('username')
    res.delete_rookie('password')
    return res
105
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109
                  #sign functions end here
                 # Functional Features Start here
                   @app.route('/home')
                 def home():

if 'loggedin' in session:

username = session['username']

mysal.conne
                                                                                     session['username']
                                               notecur = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
                                             notecur = mysql.connection.cursor(mysQLdb.cursors.Dictursor)
notecur.execute('SELECT * FROM notes WHERE username = %s', (username, ))
notes = notecur.fetchone()
notecur.execute('SELECT * FROM notetittle WHERE username = %s', (username, ))
tittle = notecur.fetchone()
return render_template("todo.html", notes=notes, tittle=tittle)
124
125
126
                                else:
                                             return redirect('/')
130
131
132
                   @app.route('/update1', methods = ['GET', 'POST'])
                              p.route('/update1', methods = ['GET', 'POST'])
f updatenote1():
notenum = '1'
if 'loggedin' in session:
    if request.method == 'POST' and 'noteupdate' in request.form and 'notetittleupdate' in request.form:
    notetittle = request.form['notetittleupdate']
    noteupdate = request.form['noteupdate']
    username = session['username']
    cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
    cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
    cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
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                                                            cursor.execute('SELECT * FROM notes WHERE username = %s', (username, ))
cursor.execute('UPDATE notetittle SET notelittle = %s WHERE username = %s', (notetittle, username))
cursor.execute('UPDATE notes SET notel = %s WHERE username = %s', (noteupdate, username))
140
141
                                mysql.connection.commit()
    return redirect('/home')
    return render_template('update1.html', notenum=notenum)
return redirect('/')
143
144
145
146
147
                   @app.route('/update2', methods = ['GET', 'POST'])
148
149
150
                                updatenote2():
                                update(cez().
notenum = '2'
if 'loggedin' in session:
   if request.method == 'POST' and 'noteupdate' in request.form and 'notetittleupdate' in request.form:
151
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156
                                                           request.method == 'POST' and 'noteupdate' in request.form and 'notetittleupdate' in request.form:
    notetittle = request.form['notetittleupdate']
    noteupdate = request.form['noteupdate']
    username = session['username']
    cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
    cursor.execute('SLECT * FROM notes WHERE username = %s', (username, ))
    cursor.execute('UPDATE notetittle SET note2tittle = %s WHERE username = %s', (notetittle, username))
    cursor.execute('UPDATE notes SET note2 = %s WHERE username = %s', (noteupdate, username))
    mysql.connection.commit()
157
158
159
                                mysql.connection.commit()
return redirect('/home')
return render_template('update2.html', notenum=notenum)
return redirect('/')
```

```
@app.route('/update3', methods = ['GET', 'POST'])
                             updatenote3():
notenum = '3'
                                      tenum = '3'
'loggedin' in session:
if request.method == 'POST' and 'noteupdate' in request.form and 'notetittleupdate' in request.form:
    notetittle = request.form['notetittleupdate']
    noteupdate = request.form['noteupdate']
    username = session['username']
    cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
170
171
172
                                                        cursor.execute('SELECT * FROM notes WHERE username = %s', (username, ))
cursor.execute('UPDATE notetittle SET note3tittle = %s WHERE username = %s', (notetittle, username))
cursor.execute('UPDATE notes SET note3 = %s WHERE username = %s', (noteupdate, username))
173
174
                                                        mysql.connection.commit()
return redirect('/home')
                             return render_template('update3.html', notenum=notenum)
return redirect('/')
179
180
181
182
                 @app.route('/update4', methods = ['GET', 'POST'])
                           p.route('/update4', methods = ['GEI', 'PUSI ])
updatenote4():
notenum = '4'
if 'loggedin' in session:
    if request.method == 'POST' and 'noteupdate' in request.form and 'notetittleupdate' in request.form:
    notetittle = request.form['notetittleupdate']
    noteupdate = request.form['noteupdate']
    username = session['username']
    cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
    cursor.execute('SELECT * FROM notes WHERE username = %s', (username, ))
184
185
186
187
188
                                                        cursor.execute('SELECT * FROM notes WHERE username = %s', (username, ))
cursor.execute('UPDATE notetittle SET note4tittle = %s WHERE username = %s', (notetittle, username))
cursor.execute('UPDATE notes SET note4 = %s WHERE username = %s', (noteupdate, username))
190
191
192
193
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                                                        mysql.connection.commit()
return redirect('/home')
                             return render_template('update4.html', notenum=notenum)
return redirect('/')
197
198
199
                 @app.route('/update5', methods = ['GET', 'POST'])
                         indatenote5():
notenum = '5'
if 'loggedin' in session:
    if request.method == 'POST' and 'noteupdate' in request.form and 'notetittleupdate' in request.form:
        if request.method == 'POST' and 'notetittleupdate']
        notetittle = request.form['notetittleupdate']
        noteupdate = request.form['noteupdate']
        username = session['username']
        cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
        cursor.execute('SELECT * FROM notes WHERE username = %s', (username, ))
        cursor.execute('UPDATE notetittle SET noteStittle = %s WHERE username = %s', (notetittle, username))
        cursor.execute('UPDATE notes SET note5 = %s WHERE username = %s', (noteupdate, username))
        return redirect('/home')
    return redirect('/home')
    return render_template('update5.html', notenum=notenum)
                 def updatenote5():
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214
               @app.route('/profile')
def profile():
    if 'loggedin' in session:
        cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
        cursor.execute('SELECT * FROM account WHERE username = %s', (session['username'], ))
        account = cursor.fetchone()
    pfp = avatar(account['email_id'])
    return render_template('profile.html', account=account, pfp=pfp)
    return redirect('/home')
217
218
219
225 @app.route('/settings', methods = ['GET', 'POST'])
226 ▼ def settings():
227 ▼ if 'loggedin' in session:
228
229
                                           color
                                           if request.method == 'POST' and 'email_up' in request.form and 'cn_pass' in request.form:
    email_id = request.form['email_up']
    cnfrmpassword = request.form['cn_pass']
    username = session['username']
    cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
    cursor.execute('SELECT * FROM account WHERE username = %s', (username, ))
    security cursor.execute('SELECT * FROM account WHERE username = %s', (username, ))
230 ▼
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232
233
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235
                                                       cursor.execute( SELECT * FROWN account WHERE username = %$ , (username, ))
account = cursor.fetchone()
if cnfrmpassword == account['password']:
    cursor.execute('UPDATE account SET email_id = %$ WHERE username = %$', (email_id, username, ))
    msg = 'Email-id' Updated'
    color = 'green-text'
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237 ▼
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243 ▼
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245
246
                                                                    return render_template('settings.html', msg=msg, color=color)
                                                        else:
                                         msg = 'Incorrect Password Entered'
    color = 'red-text'
    return render_template('settings.html', msg=msg, color=color)
elif request.method == 'POST' and 'c_pass' in request.form and 'pass_up' in request.form and 'n_pass' in request.form:
    username = session['username']
    new_password = request.form['n_pass']
    old_password = request.form['c_pass']
    password = request.form['pass_up']
    cursor = mysql.connection.cursor(MySQLdb.cursors.DictCursor)
    cursor.execute('SELECT * FROM account WHERE username = %s', (username, ))
    account = cursor.fetchone()
    if old_password == new_password:
        cursor.execute('UPDATE account SET password = %s WHERE username = %s', (password, username, ))
        mysql.connection.commit()
                                                                    msg = 'Incorrect Password Entered'
247 ▼
248
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255 ▼
256 ▼
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259
                                                                                 mysql.connection.commit()
msg = 'Password Updated'
color = 'green-text'
                                                                                   return render_template('settings.html', color2=color, msg2=msg)
```

```
else:

msg = 'Your new password and conformation password dose not match retry again'
color = 'red-text'
return render_template('setting.html', msg2=msg, color2=color)

else:

msg = 'Your old password dose not match retry again'
color = 'red-text'
return render_template('settings.html', msg2=msg, color2=color)
return render_template('settings.html', msg2=msg, color2=color)
return render_template('settings.html')
return redirect('/')

return redirect('/')

app.run(threaded=True, port=5000)
```

MySQL-module

```
import mysql.connector
     def accounttable():
         db = mysql.connector.connect(
             host='localhost',
user='root',
passwd='ssassk@2004',
              database='notler')
10
         mvcursor = db.cursor()
11
12
13
         mycursor.execute("CREATE TABLE IF NOT EXISTS account(username VARCHAR(100) PRIMARY KEY, email_id VARCHAR(300), password VARCHAR(300))")
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16
17
18
19
20
21
22
23
24
     def notetable():
         db = mysql.connector.connect(
host='localhost',
         user='root',
         passwd='ssassk@2004',
         database='notler')
         mycursor = db.cursor()
         mycursor.execute("CREATE TABLE IF NOT EXISTS notes (username VARCHAR(100) PRIMARY KEY, note1 VARCHAR(1000), note2 VARCHAR(1000),
                             note3 VARCHAR(1000), note4 VARCHAR(1000), note5 VARCHAR(1000))")
```

ProfilePicture-module

```
import urllib, hashlib

def avatar(usermail):

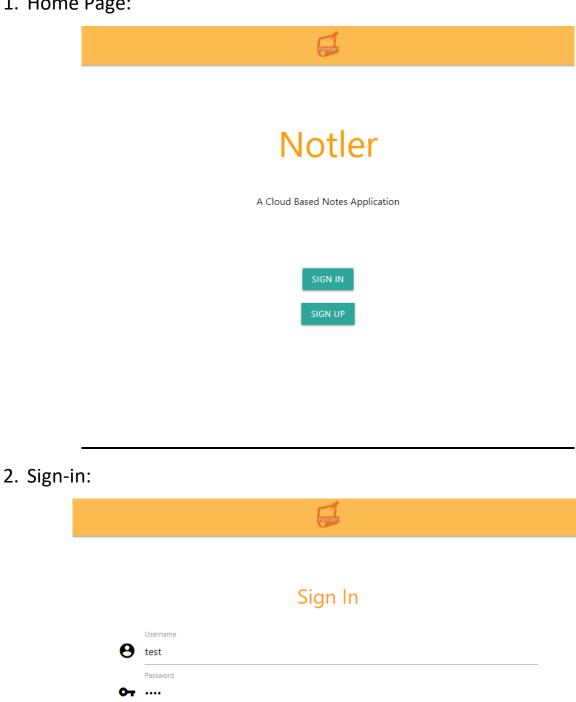
#hashing the url
hash = hashlib.md5(usermail.encode('utf-8')).hexdigest()

#output image
gravatar_image = "https://www.gravatar.com/avatar/" + hash + "?"

return gravatar_image
```

Chapter-4: Test Case

1. Home Page:



Don't have an account Sign Up

3. Sign-up:

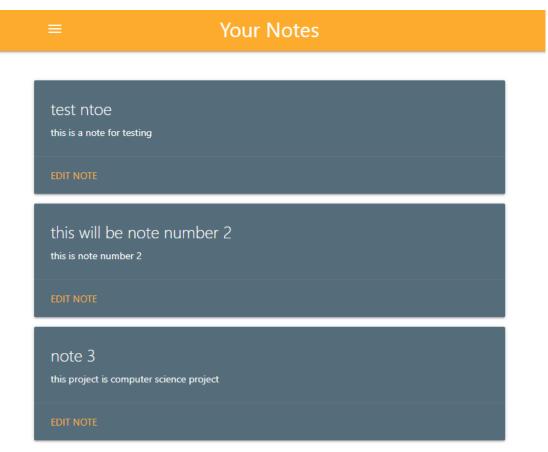


Sign Up

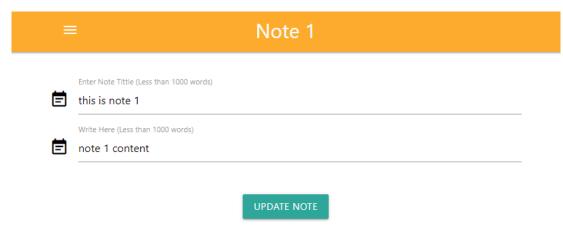


Already have an account Sign In

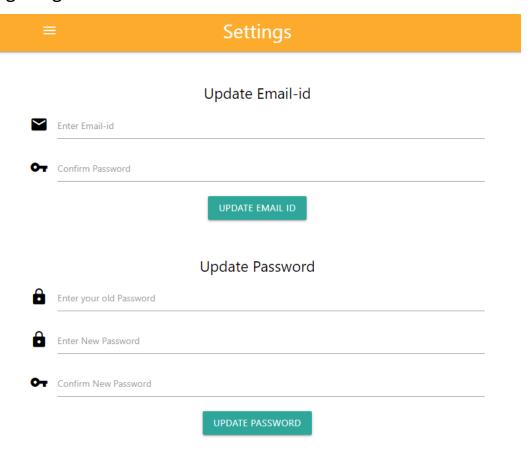
4. Notes-Page:



5. Update-Note:



6. Settings-Page:



7. Profile-Page:

■ Your Profile



Username: test

Email ID : csproject@csproject.com

Chapter-5: Conclusion

Through the project we've learned to use Python and MySQL and it has shown as a wide variety of projects that can be made using the combination of these two programs

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