Internet and Web Programming

Project

Diabetes Prediction System

Review-2

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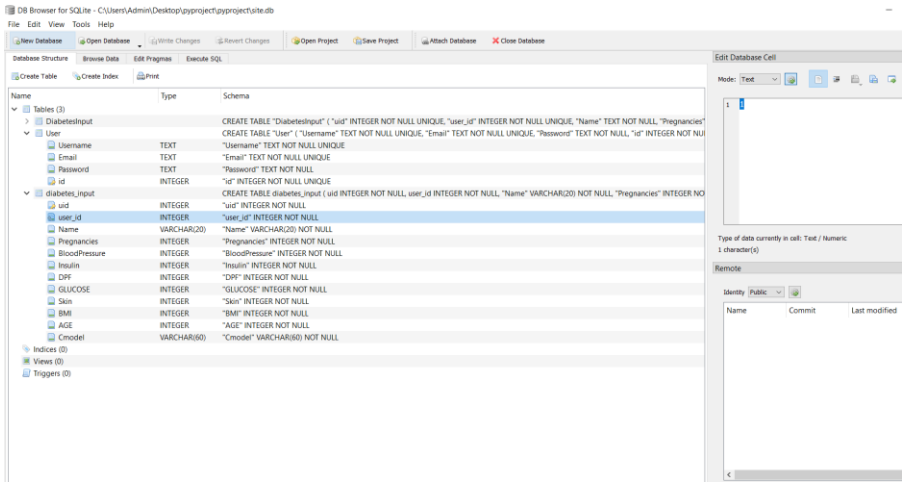
Reg No- 18BCE2246

Query Document:

1.Create Table:



- User Table

```
CREATE TABLE "User" (
        "id"    INTEGER NOT NULL UNIQUE,
        "Username" TEXT NOT NULL UNIQUE,
        "Email"         TEXT NOT NULL UNIQUE,
        "Password"  TEXT NOT NULL UNIQUE,
```

PRIMARY KEY("id" AUTOINCREMENT)
);

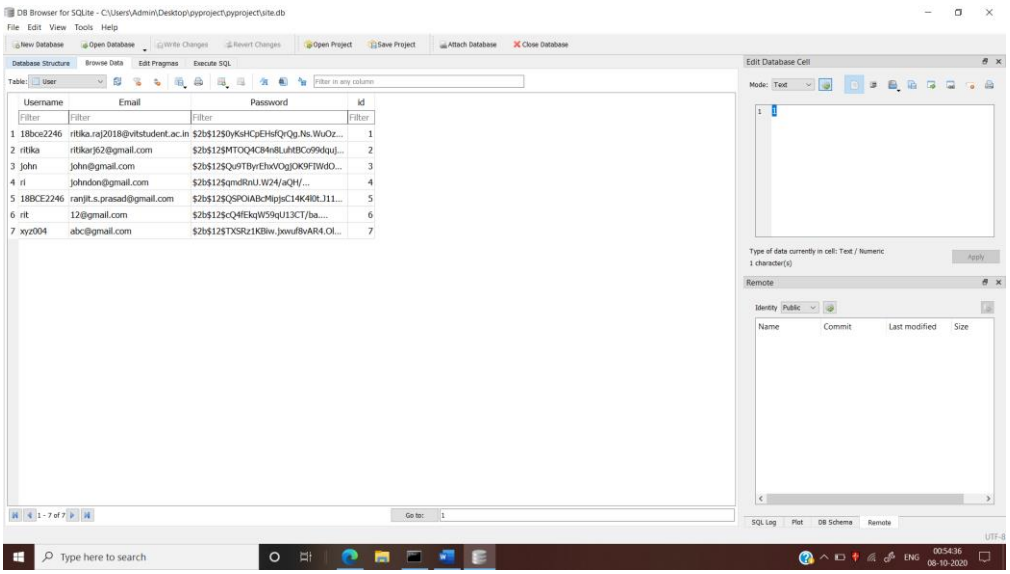
Flask Code:

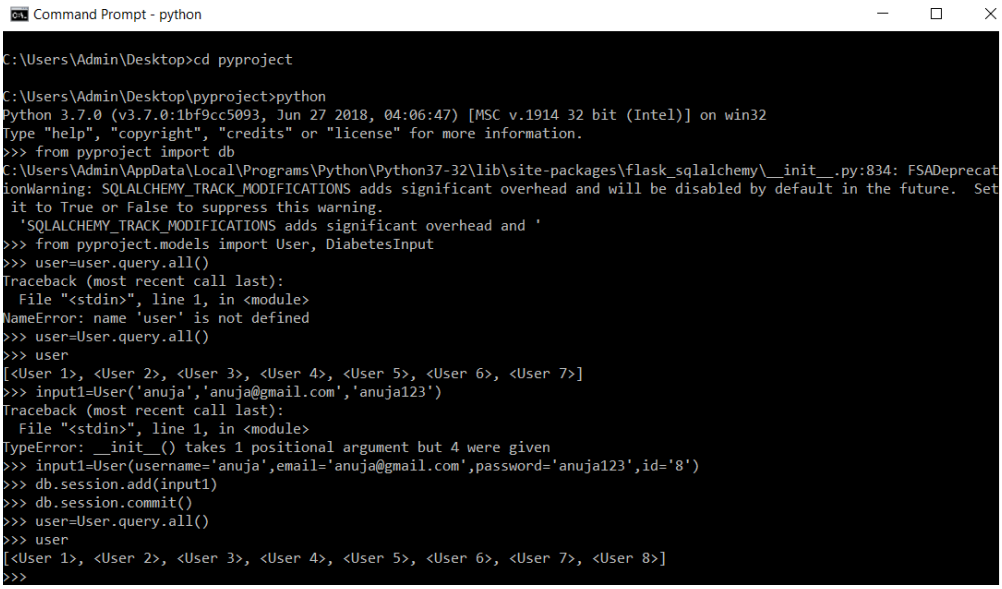
```
class User(db.Model, UserMixin):
    id = db.Column(db.Integer, primary_key=True)
    username = username = db.Column(db.String(20), unique=True, nullable=False
)
    email = db.Column(db.String(120), unique=True, nullable=False)
    password = db.Column(db.String(60), nullable=False)
    diab = db.relationship('DiabetesInput', lazy=True)
```

2. Input Data:

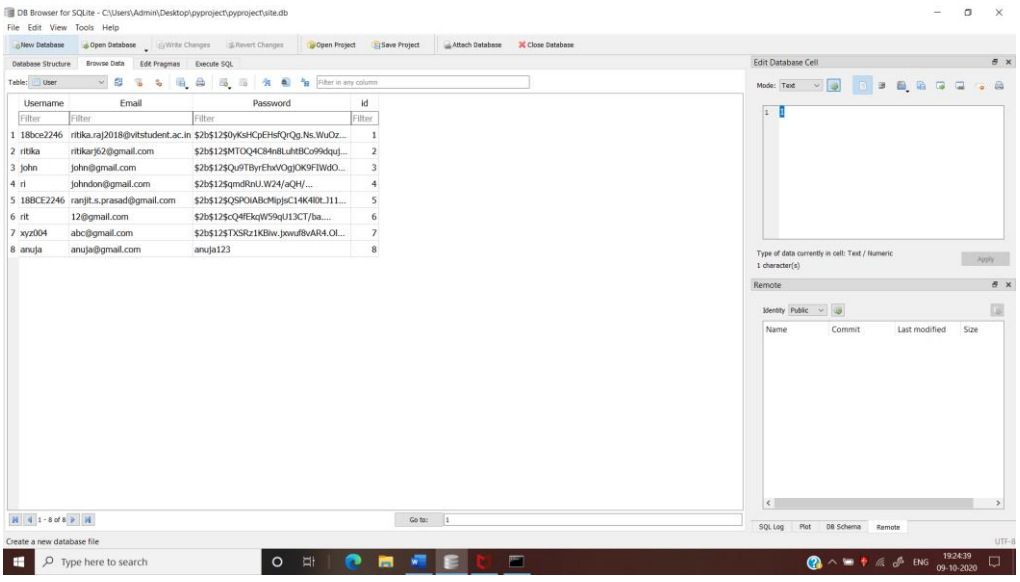
- Inputting data from command prompt :

  Original Database:





After running the command:



- Retrieving Data:

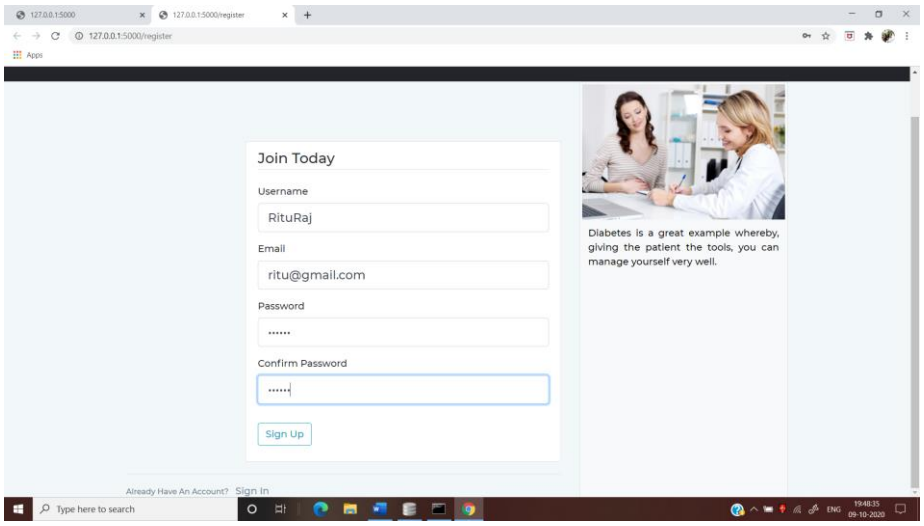
```
C:\Users\Admin\Desktop\pyproject>python
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> from pyproject import db
C:\Users\Admin\AppData\Local\Programs\Python\Python37-32\lib\site-packages\flask_sqlalchemy\__init__.py:834: FSADeprecat
ionWarning: SQLALCHEMY_TRACK_MODIFICATIONS adds significant overhead and will be disabled by default in the future.  Set
 it to True or False to suppress this warning.
  'SQLALCHEMY_TRACK_MODIFICATIONS adds significant overhead and '
>>> from pyproject.models import User
>>> user=User.query.first()
>>> user
<User 1>
>>> user.password
'$2b$12$0yKsHCpEHsfQrQg.Ns.WuOztDa9U8p3YR6hMb01L1QJM0c3VZ7GWS'
>>> user.username
'18bce2246'
>>>
```

```
>>> user=User.query.first()
>>> user
<User 1>
>>> user.id
1
>>> user.username
'18bce2246'
>>> user.email
'ritika.raj2018@vitstudent.ac.in'
>>>
```

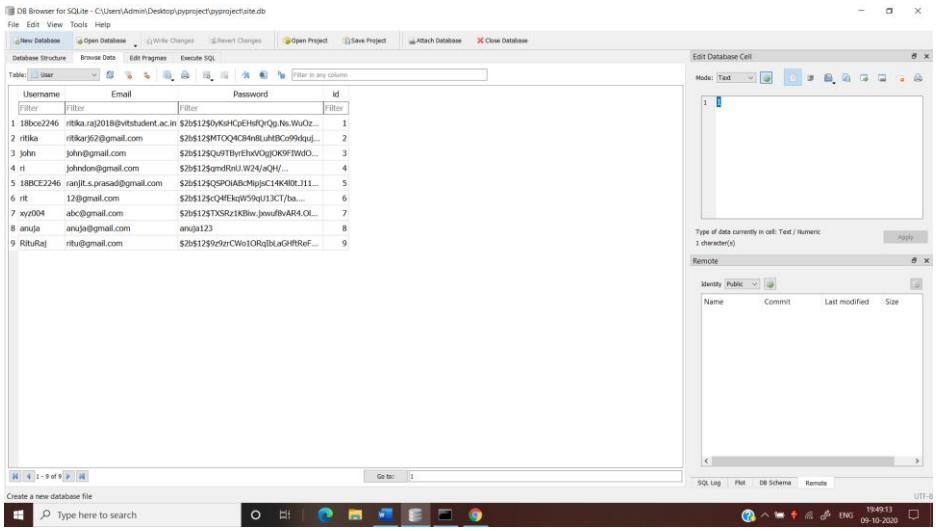
```
>>> user1=User.query.filter_by(username='anuja')
>>> user1
<flask_sqlalchemy.BaseQuery object at 0x0145BEF0>
>>> user1.all()
[<User 8>]
```

```
>>> data=DiabetesInput.query.filter_by(uid='2')
>>> data1=data.all()
>>> data1
[<DiabetesInput 2>]
>>> data=DiabetesInput.query.filter_by(Pregnancies='0')
>>> data1=data.all()
>>> data1
[<DiabetesInput 3>, <DiabetesInput 10>]
>>>
```

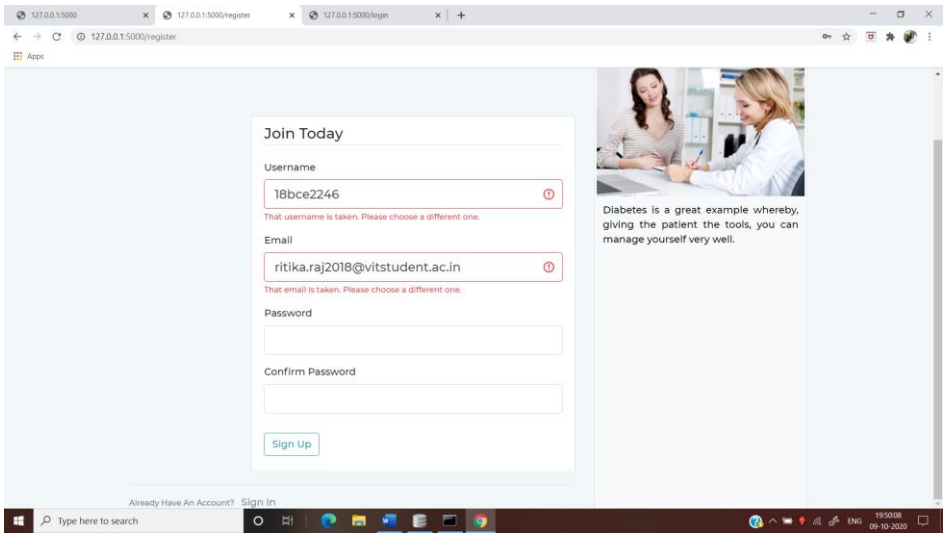
- Inputting data from the website:



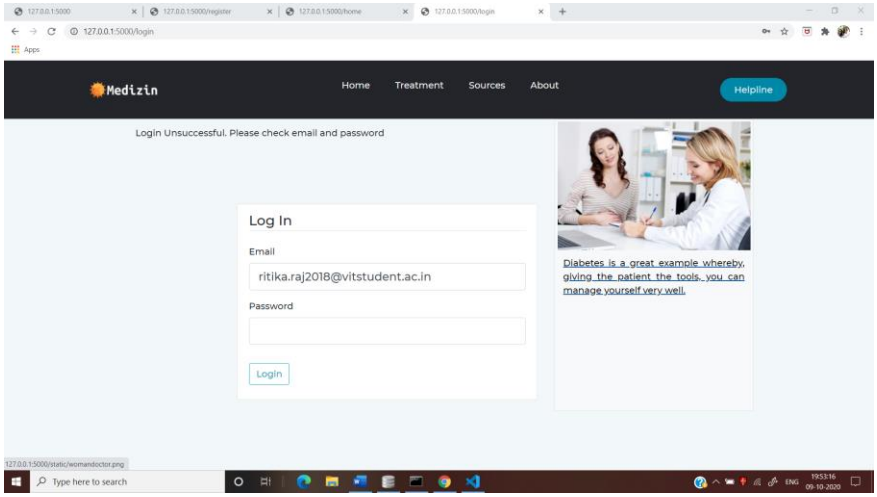
Database:



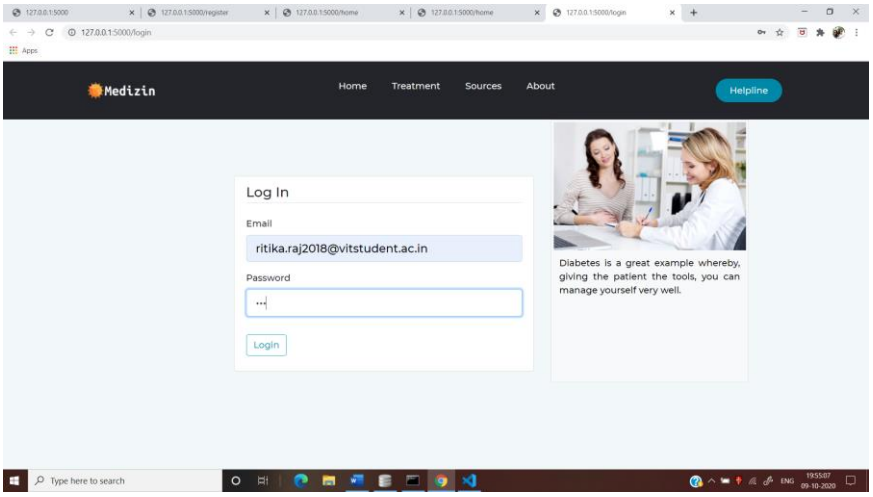
If similar username/email is given:

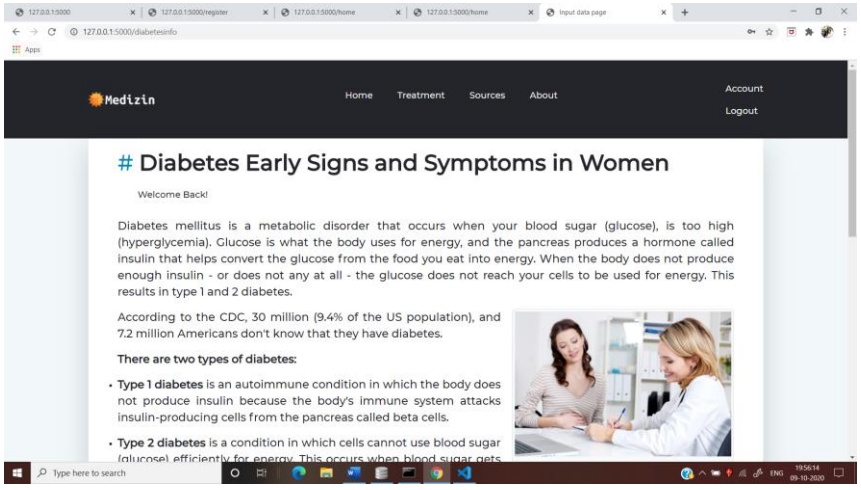


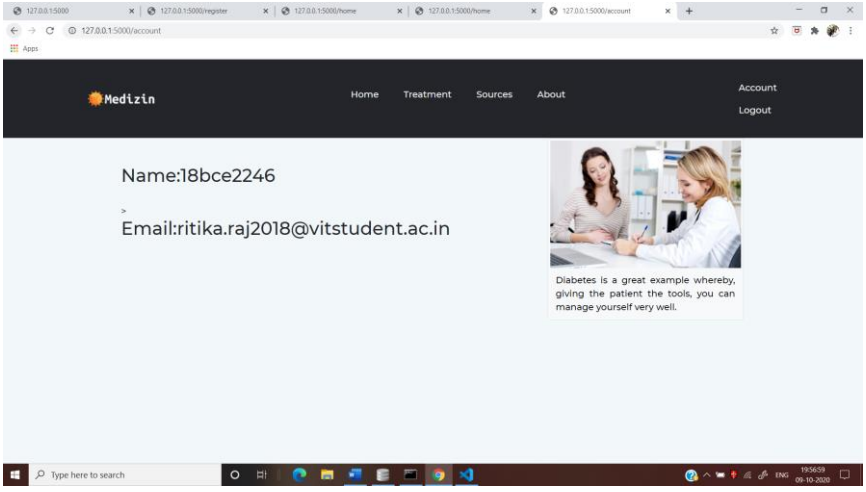
If wrong login credentials are given:



After giving right credentials:







- Diabetes Input Table:

```
CREATE TABLE "DiabetesInput" (
        "uid"  INTEGER NOT NULL UNIQUE,
        "user_id"      INTEGER NOT NULL UNIQUE,
        "Name"         TEXT NOT NULL,
        "Pregnancies"        INTEGER NOT NULL,
        "BloodPressure"    INTEGER NOT NULL,
        "Insulin"       INTEGER NOT NULL,
        "DPF" INTEGER NOT NULL,
        "GLUCOSE"  INTEGER NOT NULL,
        "Skin" INTEGER NOT NULL,
        "BMI" INTEGER NOT NULL,
        "AGE"INTEGER NOT NULL,
        "Cmodel"     TEXT NOT NULL,
        PRIMARY KEY("uid")
);
```

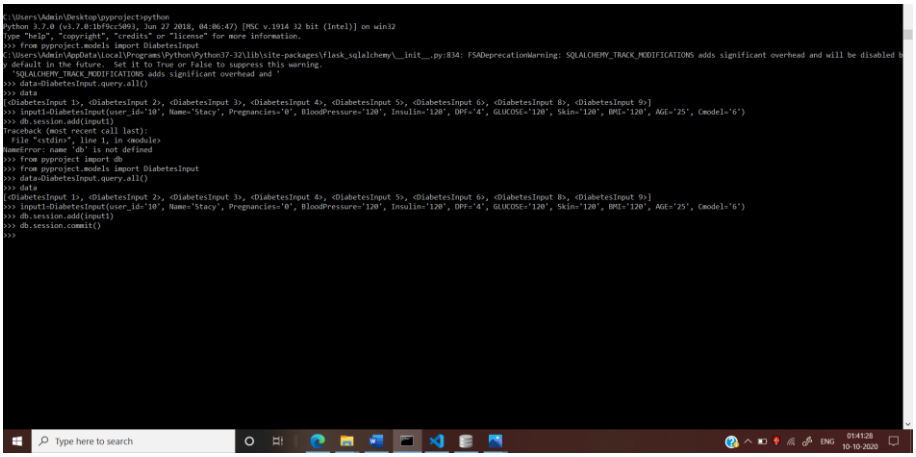
Flask code:

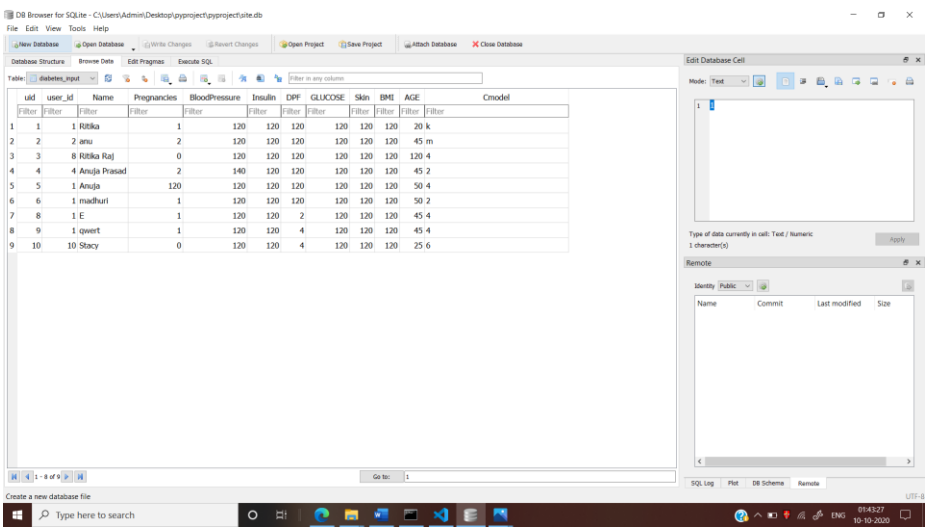
```python
class DiabetesInput(db.Model):
    uid = db.Column(db.Integer, primary_key=True)
    user_id=db.Column(db.Integer, db.ForeignKey('user.id'), nullable=False)
    Name =db.Column(db.String(20), nullable=False)
    Pregnancies= db.Column(db.Integer, nullable=False)
    BloodPressure = db.Column(db.Integer, nullable=False)
    Insulin= db.Column(db.Integer, nullable=False)
    DPF= db.Column(db.Integer, nullable=False)
    GLUCOSE = db.Column(db.Integer, nullable=False)
    Skin = db.Column(db.Integer, nullable=False)
```

```
    BMI = db.Column(db.Integer, nullable=False)
    AGE = db.Column(db.Integer, nullable=False)
    Cmodel = db.Column(db.String(60), nullable=False)
```

Inputting from command prompt:

Command



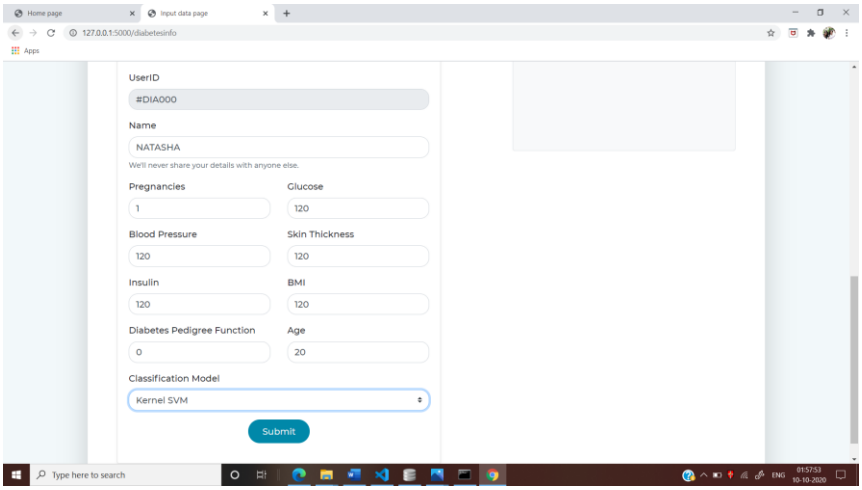


- Retrieving Data:

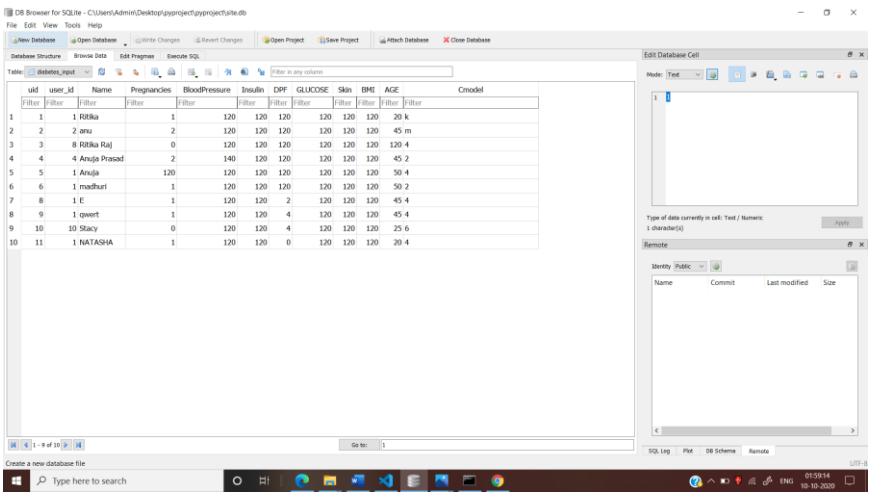
```
C:\Users\Admin\Desktop\pyproject>python
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:06:47) [MSC v.1914 32 bit (Intel)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> from pyproject import db
C:\Users\Admin\AppData\Local\Programs\Python\Python37-32\lib\site-packages\flask_sqlalchemy\__init__.py:834: FSADeprecat
ionWarning: SQLALCHEMY_TRACK_MODIFICATIONS adds significant overhead and will be disabled by default in the future.  Set
 it to True or False to suppress this warning.
  'SQLALCHEMY_TRACK_MODIFICATIONS adds significant overhead and '
>>> from pyproject.models import DiabetesInput
>>> d1=DiabetesInput.query.all()
>>> d1
[<DiabetesInput 1>, <DiabetesInput 2>, <DiabetesInput 3>, <DiabetesInput 4>, <DiabetesInput 5>, <DiabetesInput 6>, <Diab
etesInput 7>, <DiabetesInput 8>, <DiabetesInput 9>, <DiabetesInput 10>, <DiabetesInput 11>]
>>> d1=DiabetesInput.query.first()
>>> d1.Name
'Ritika'
>>>
```

```
>>> from pyproject.models import DiabetesInput
>>> input=DiabetesInput.query.first()
>>> input
<DiabetesInput 1>
>>> input.uid
1
>>> input.name
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
AttributeError: 'DiabetesInput' object has no attribute 'name'
>>> input.Name
'Ritika'
>>> input.BloodPressure
120
>>> input.DPF
120
>>> input.AGE
30
>>>
```

- Inputting Data from the website:



Database:



- Retrieving Data:

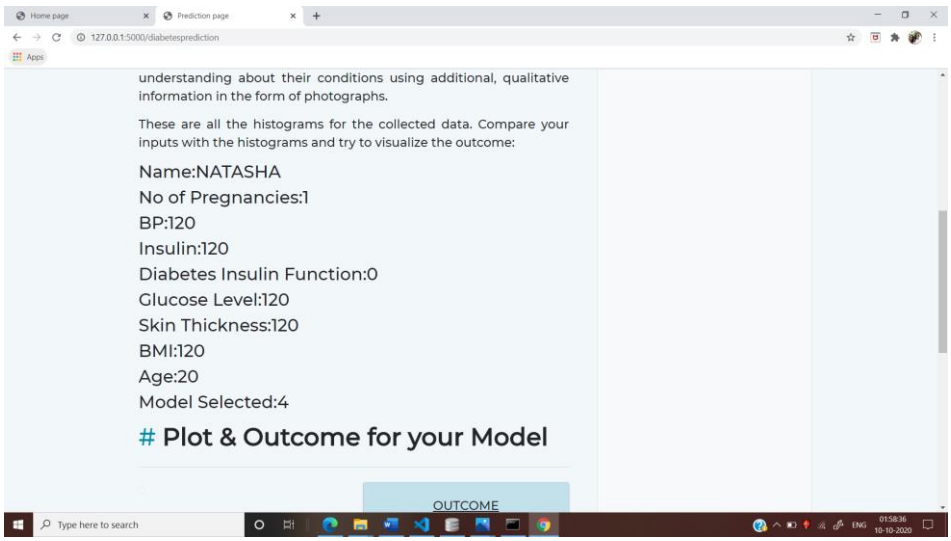
Query (To catch the input)-

```
Diabetes=db.session.query(DiabetesInput).order_by(DiabetesInput.uid.desc()).fi
rst()
return render_template('diabetesprediction.html',Diabetes=Diabetes)
```

Displaying in Prediction Page:

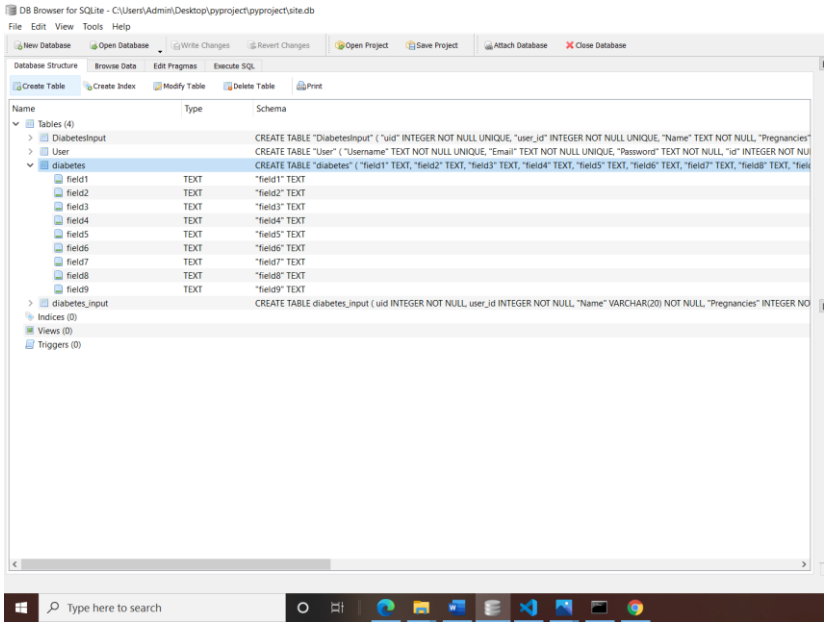
```
                    <h3>Name:{{ Diabetes.Name }}</h3>
                    <h3>No of Pregnancies:{{ Diabetes.Pregnancies}}</h3>
                    <h3>BP:{{ Diabetes.BloodPressure }}</h3>
                    <h3>Insulin:{{ Diabetes.Insulin }}</h3>
                    <h3>Diabetes Insulin Function:{{ Diabetes.DPF }}</h3>
                    <h3>Glucose Level:{{ Diabetes.GLUCOSE }}</h3>
                    <h3>Skin Thickness:{{ Diabetes.Skin }}</h3>
                    <h3>BMI:{{ Diabetes.BMI }}</h3>
                    <h3>Age:{{ Diabetes.AGE }}</h3>
                    <h3>Model Selected:{{ Diabetes.Cmodel }}</h3>
```

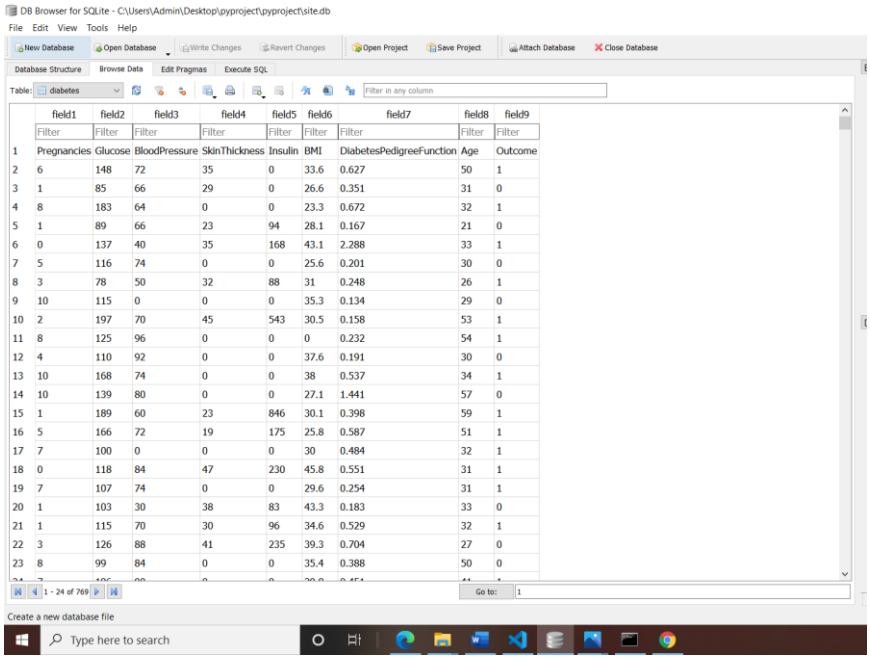
Output displayed:



Training Dataset (Imported from CSV file):

- For training the machine learning model:


DB Browser for SQLite - C:\Users\Admin\Desktop\pyproject\pyproject\site.db
File Edit View Tools Help
New Database
Open Database
Write Changes
Revert Changes
Open Project
Save Project
Attach Database
Close Database
Database Structure
Browse Data
Edit Pragmas
Execute SQL
Create Table
Create Index
Modify Table
Delete Table
Print
Name
Type
Schema
Tables (4)
DiabetesInput
CREATE TABLE "DiabetesInput" ("uid" INTEGER NOT NULL UNIQUE, "user_id" INTEGER NOT NULL UNIQUE, "Name" TEXT NOT NULL, "Pregnancies"
User
CREATE TABLE "User" ("Username" TEXT NOT NULL UNIQUE, "Email" TEXT NOT NULL UNIQUE, "Password" TEXT NOT NULL, "id" INTEGER NOT NUI
diabetes
CREATE TABLE "diabetes" ("field1" TEXT, "field2" TEXT, "field3" TEXT, "field4" TEXT, "field5" TEXT, "field6" TEXT, "field7" TEXT, "field8" TEXT, "fiel
field1 TEXT "field1" TEXT
field2 TEXT "field2" TEXT
field3 TEXT "field3" TEXT
field4 TEXT "field4" TEXT
field5 TEXT "field5" TEXT
field6 TEXT "field6" TEXT
field7 TEXT "field7" TEXT
field8 TEXT "field8" TEXT
field9 TEXT "field9" TEXT
diabetes_input
CREATE TABLE diabetes_input (uid INTEGER NOT NULL, user_id INTEGER NOT NULL, "Name" VARCHAR(20) NOT NULL, "Pregnancies" INTEGER NO
Indices (0)
Views (0)
Triggers (0)
Type here to search


DB Browser for SQLite - C:\Users\Admin\Desktop\pyproject\pyproject\site.db
File Edit View Tools Help
New Database
Open Database
Write Changes
Revert Changes
Open Project
Save Project
Attach Database
Close Database
Database Structure
Browse Data
Edit Pragmas
Execute SQL
Table: diabetes
Filter in any column
field1 field2 field3 field4 field5 field6 field7 field8 field9
Filter
1 Pregnancies Glucose BloodPressure SkinThickness Insulin BMI DiabetesPedigreeFunction Age Outcome
2 6 148 72 35 0 33.6 0.627 50 1
3 1 85 66 29 0 26.6 0.351 31 0
4 8 183 64 0 0 23.3 0.672 32 1
5 1 89 66 23 94 28.1 0.167 21 0
6 0 137 40 35 168 43.1 2.288 33 1
7 5 116 74 0 0 25.6 0.201 30 0
8 3 78 50 32 88 31 0.248 26 1
9 10 115 0 0 0 35.3 0.134 29 0
10 2 197 70 45 543 30.5 0.158 53 1
11 8 125 96 0 0 0 0.232 54 1
12 4 110 92 0 0 37.6 0.191 30 0
13 10 168 74 0 0 38 0.537 34 1
14 10 139 80 0 0 27.1 1.441 57 0
15 1 189 60 23 846 30.1 0.398 59 1
16 5 166 72 19 175 25.8 0.587 51 1
17 7 100 0 0 0 30 0.484 32 1
18 0 118 84 47 230 45.8 0.551 31 1
19 7 107 74 0 0 29.6 0.254 31 1
20 1 103 30 38 83 43.3 0.183 33 0
21 1 115 70 30 96 34.6 0.529 32 1
22 3 126 88 41 235 39.3 0.704 27 0
23 8 99 84 0 0 35.4 0.388 50 0
1 - 24 of 769
Go to: 1
Create a new database file
Type here to search