QUANTIFIED SELF

AUTHOR

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DESCRIPTION

QUANTIFIEDSELF is a tracker management system, where a user can create his own tracker and track his daily activities and various other parameters such as temperature, running etc.

TECHNOLOGY USED

- FLASK
- FLASK-SQLALCHEMY
- JINJA
- SQLITE
- HTML/CSS
- BOOTSTRAP
- Chart.js

DB SCHEMA DESIGN

```
class User(db.Model):
  id=db.Column(db.Integer, primary_key=True)
  username=db.Column(db.String,unique=True, nullable=False)
  password=db.Column(db.String, nullable=False)
  email=db.Column(db.String,unique=True, nullable=False)
  trackers=db.relationship('tracker',backref='user',lazy=True,cascade='all,delete')

class tracker(db.Model):
  t_id=db.Column(db.Integer, primary_key=True)
  Name=db.Column(db.String,nullable=False)
  desc=db.Column(db.String,nullable=False)
  type=db.Column(db.String)
  Settings=db.Column(db.String)
  user_id=db.Column(db.Integer,db.ForeignKey('user.id',ondelete='CASCADE'))
  logs=db.relationship('Addlog',backref='tracker',lazy=True,uselist=False,cascade='all,delete')

class Addlog(db.Model):
  log_id=db.Column(db.Integer,primary_key=True)
  when=db.Column(db.DateTime,default=datetime.utcnow)
  value=db.Column(db.Integer)
  notes=db.Column(db.String)
  tracker_id=db.Column(db.Integer,db.ForeignKey('tracker.t_id',ondelete='CASCADE'),nullable=False)
```

We have three tables,

1. USER
2. TRACKER
3. ADDLOG

- The USER table contains information(Username, password, email) about the user who's interacting with the application. There's one to many relationships between the USER and TRACKER table, which represents that a user can create many trackers.

- The TRACKER table contains information about the tracker(Name, description, type, settings, user_id, logs). There is a one to many relationship between TRACKER and ADDLOG table. Which represents that in a tracker user can add many logs.

- The ADDLOG table contains information about the Logs created by the user in a particular tracker.

ARCHITECTURE AND FEATURES

1. Login System
2. Trendline and Graph
3. CRUD operations on both logs and Tracker
4. Numerical, Multiple Choice and Boolean Type of Trackers can be created
5. Dashboard

Application Link:

Visit

Video Link:

—> for IIT MADRAS People

Drive Link

—> for Others:

Youtube Video