

SA4

FEEDBACK FORM APPLICATION

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PROJECT REPORT

PROBLEM STATEMENT:

Implement feedback application that includes student portal and trainer portal using flask framework.

Project submitted by

Rachure Akshit

Sai Krishna E L

Amogh J P

Abhishek B B

Arun P N

Trainer Name

Suman Gangopadhyay

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Domains

- ✓ Rachure Akshit (1SI17IS030)Business-logic
- ✓ Sai Krishna E L (1SI17IS035).....Business-logic
- ✓ Amogh J P (1SI17IS004).....Front-end
- ✓ Abhishek B B (1SI17IS001).....Front-end
- ✓ Arun P N (1SI17IS007).....Database

Overview of the project

This project implements a feedback application that includes two portals named Trainer portal and Student portal, where trainer portal gets into trainer login page and Student portal gets into feedback page.

- Dash board present at the First/index webpage presents the information about the number of trainers, number of courses available, number of students and the number of feedbacks received and it includes the rating of each trainer.
- The trainer login page contains two fields, trainer name and password, after authentication, feedbacks for his training are shown.
- The Student portal gets to a button which takes to feedback form which has to be filled by the student.
- After satisfying all the conditions applied, the data entered by the student is saved and stored successfully.
- For each feedback received, the rating for that respective trainer is calculated based on rating received in this feedback along with the previous rating and the final rating is updated successfully.
- The student can submit another response on clicking a link present at thank you page.

Requirements

- i) Laptop
- ii) Internet connection
- iii) Text editors
 - (a) Visual studio code
 - (b) Atom
 - (c) Sublime text
- iv) Websites
 - (a) w3 schools
 - (b) stackoverflow
 - (c) getbootstrap
 - (d) sit.ac.in
- v) Database service provider
 - (a) Xampp
- vi) Database
 - (a) Mysql
- vii) Backend framework
 - (a) Flask
- viii) Programming Language
 - (a) Python
- ix) Frontend
 - (a) HTML
 - (b) CSS
 - (c) JS

FUNCTIONALITIES

- ✓ `app.config['SQLALCHEMY_DATABASE_URI']='mysql+pymysql://root:@localhost/flask_project'`
`db=SQLAlchemy(app)`

Here, we used mysql database and connect to our piece of code using SQLAlchemy class. db is an instance of class SQLAlchemy and app is the instance of flask class and SQLAlchemy inherits the flask class.

- ✓ `class CreateTable(db.Model):`
`__tablename__="feedback_table"`
`id=db.Column(db.Integer,primary_key=True)`
`name=db.Column(db.String(20))`
`usn=db.Column(db.String(20))`
`.....`

Here, we created the table using ORM(Object Relational Mapper) class named CreateTable() using the instance db.Model. Table name is “feedback_table” which includes id (datatype – integer, primary_autoincrement_key), name (datatype – string), usn (datatype – string), etc...

- ✓ `class TrainerTable(db.Model):`
`__tablename__ = "trainer_table"`
`ID = db.Column(db.Integer,primary_key=True)`
`Akshit = db.Column(db.Float)`
`SaiKrishna = db.Column(db.Float)`
`.....`

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Here, we created one more table using ORM(Object Relational Mapper) class named TrainerTable() using the instance db.Model. Table name is “trainer_table” which includes ID (datatype – integer, primary_autoincrement_key), Akshit (datatype – float), SaiKrishna (datatype – float), etc...

```
✓ data = TrainerTable.query.all()
  data1 = CreateTable.query.all()
```

‘data’ holds all the “trainer_table” details using TrainerTable.query.all() model and ‘data1’ holds all the “feedback_table” details using CreateTable.query.all() model.

```
✓ @app.route('/index/')
  def index():
    return render_template("indexpage.html")
```

This app.route() executes when the url contains ‘127.0.0.1:8080/index/’ and opens the ‘indexpage.html’ page.

```
✓ form = request.form
  name = form['name']
  usn = form['usn']
  phone = form['phn']
  mail = form['mail']
  college = form['clgname']
  .....
```

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Here, we are reading the values, that the user (student) gives his/her feedback in the feedback page, to the particular variables by using `form = request.form` and then these are used to insert the data into the table “feedback_table”.

- ✓ `insert=CreateTable(name=name,usn=usn,phn_no=phone,email=mail,college=college,trainer=trainer,course=course,overall_rate=o_rate,hands_on=h_on,pace=pace,explanation=explanation,doubt_clearing=doubt,suggestions=tarea)`

Here, we are inserting the variables, that we used to store the response of user (student), to the “feedback_table” using the class name `CreateTable()` and the whole data is stored in the variable ‘insert’.

- ✓

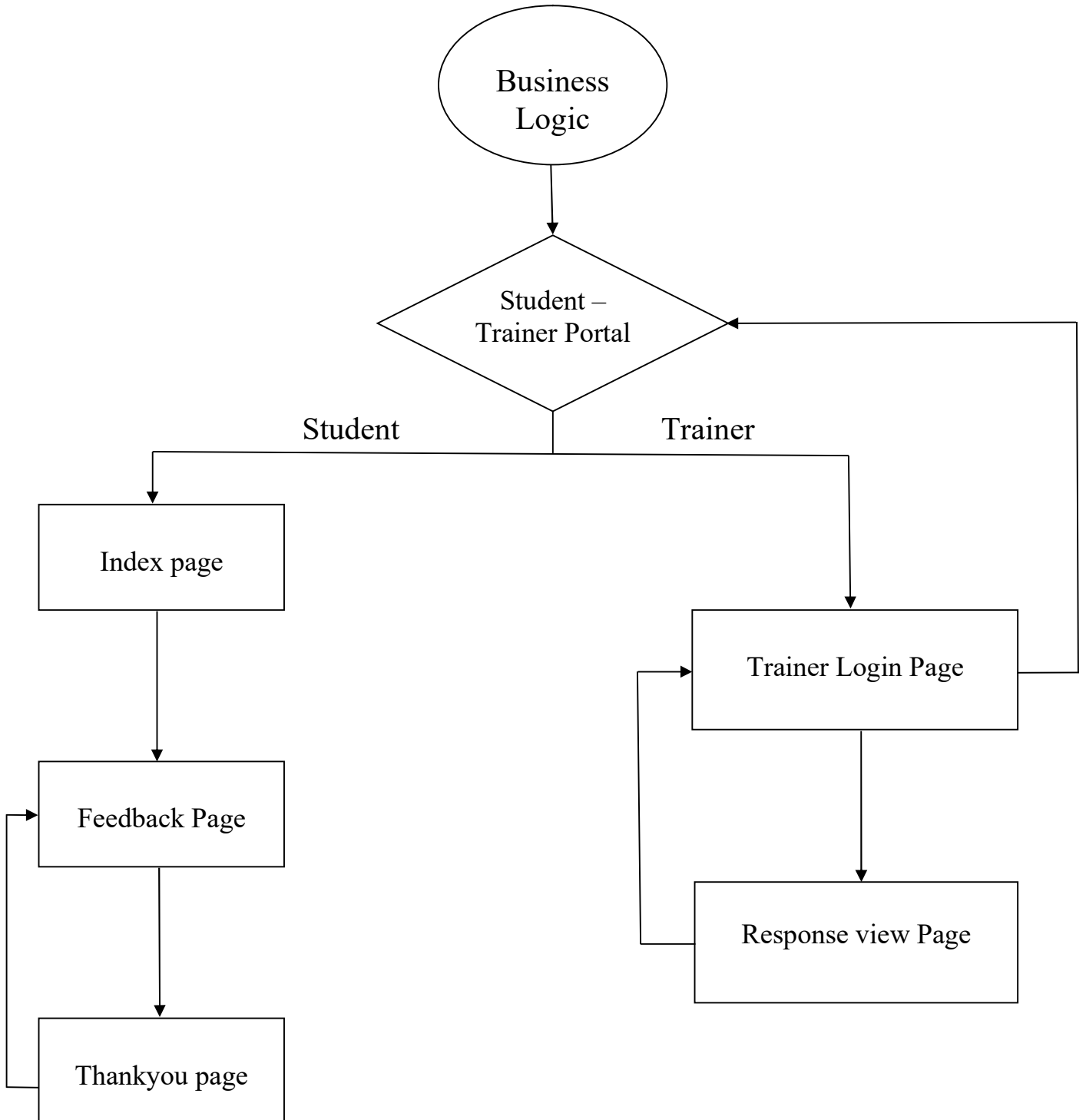
```
save=db.session
    try:
        save.add(insert)
        save.commit()
        return redirect(url_for('thankyou'))
    except Exception as e:
        save.rollback()
        save.flush()
        print("Error in entering data into Database")
        print(e)
    return render_template("feedback123.html")
```

Here, we are creating a session to insert the data into the “feedback_table” by using the `db.session`. There are two cases,

Case 1 : If session is created successfully, then we add the data stored in the variable ‘insert’ and commit it finally we redirect it to ‘thankyou’ html page.



Case 2 : If session is not created, then we will rollback the stored data and flush it finally we return to ‘feedback123’ html page.

Flow of Logic



E R Diagram

 trainer_table
123  ID
123 Akshit
123 SaiKrishna
123 Arun
123 Amogh
123 Abhishek
123 count

 feedback_table
123  id
ABC name
ABC usn
ABC phn_no
ABC email
ABC college
ABC trainer
ABC course
123 overall_rate
123 hands_on
ABC pace
123 explanation
123 doubt_clearing
ABC suggestions

Development Methodology

The main idea behind this project is to ensure the proper maintenance of an organization, and to change their style of working/training based on the feedbacks received by the candidates appeared for training. This is not just a feedback form but also contains a trainer's portal which takes to the page that displays feedbacks received particularly for that trainer. Those feedbacks contains ratings for each particular domain and suggestions too. So that the trainer can analyze the ratings received and can concentrate/improve in particular domain. To submit multiple responses/feedbacks, A link to submit another response is placed at the end (thank you) page.

Roles and Responsibilities

- **Front-end developer** : To design the html page which is the skeleton of the application and then design that html page using Javascript , css and bootstrap.
- **Back-end developer/ Business logic developer** : To develop the business logic using Python programming language and Flask Framework so that the project operates successfully.
- **Database operator** : To store the data/response entered by the student and fetch the data stored from the database when trainer logs in using mysql database and xampp database server.

Folders

- ❖ Static
 - CSS
 - trainer.css
 - bootstrap.min.css
 - img
 - abhi.jpg
 - akshit.jpg
 - Amogh.jpg
 - arun.jpg
 - sai.jpg
 - background.jpg
 - trainer.jpg
- ❖ templates
 - feedback123.html
 - indexpage.html
 - S_T.html
 - thankyou.html
 - trainerlogin.html
 - viewall.html
- ❖ app.py
