Database interaction with Flask app using the ORM approach:

Relational Database Management System (RDBMS)

1. Definition:

- A Relational Database Management System (RDBMS) is a type of database management system that organizes data into tables (rows and columns).
- Data in RDBMS is stored in a structured format, following relationships defined between tables.

2. Features of RDBMS:

- Structured Storage: Data is stored in rows (records) and columns (fields).
- Relationships: Establishes relationships between tables using primary and foreign keys.
- o **Scalability**: Suitable for large-scale applications.
- ACID Compliance: Ensures Atomicity, Consistency, Isolation, and Durability of database transactions.

3. Examples of RDBMS:

- SQLite
- o MySQL
- PostgreSQL
- Microsoft SQL Server
- Oracle Database

SQL (Structured Query Language)

1. Definition:

- SQL is the standard programming language used to interact with relational databases.
- o It allows users to **create**, **read**, **update**, and **delete** (CRUD) data in a database.

2. Key SQL Operations:

- DDL (Data Definition Language):
 - Commands like CREATE, ALTER, DROP, TRUNCATE which define the structure of the database.

DML (Data Manipulation Language):

■ Commands like INSERT, UPDATE, DELETE, which manipulate the data in the database.

- ODCL (Data Control Language):
 - Commands like GRANT, REVOKE, which control access to the database.
- TCL (Transaction Control Language):
 - Commands like COMMIT, ROLLBACK, which manage transactions.
- DRL (Data Retrieval Language): SELECT command, to get/read the records from the table.

3. Advantages of SQL:

- Easy to learn and use.
- Widely supported across all RDBMS platforms.
- o Enables powerful querying and manipulation of data.

Object-Relational Mapping (ORM) Approach

1. What is ORM?

- Object-Relational Mapping (ORM) is a programming technique used to interact with a relational database using **object-oriented principles**.
- It eliminates the need to write raw SQL queries by mapping database tables to classes and rows to objects.

2. Why Use ORM?

- Simplifies Code: Developers can work with objects instead of writing SQL queries.
- Database Independence: Makes applications portable across different RDBMS platforms.
- **Security**: Reduces the risk of SQL injection by abstracting database interactions.
- Readability: ORM-based code is easier to read and maintain than raw SQL.

3. How ORM Works:

- Classes as Tables: ORM maps Python classes to database tables.
- Objects as Rows: Each object instance represents a row in the corresponding table.
- Attributes as Columns: Class attributes map to table columns.
- Methods for Operations: ORM provides methods for creating, reading, updating, and deleting data.

4. Examples of ORM Tools:

- o **SQLAlchemy**: A popular Python ORM that integrates seamlessly with Flask.
- **Diango ORM**: Used in Diango web applications.

Hibernate: A Java-based ORM.

Benefits of Using ORM in Flask Applications

1. Abstraction:

Developers can focus on the application logic without worrying about the underlying database queries.

2. Faster Development:

Eliminates repetitive SQL code, making the development process faster and more efficient.

3. Cross-Database Compatibility:

ORM tools can work with multiple databases without requiring code changes.

4. Ease of Maintenance:

Changes to the database schema or logic can be reflected easily in the corresponding classes.

SQLite:

- Python and Flask can connect to a variety of RDBMS software, including PostgreSQL, MYSQL, SQLite and more.
- SQLite is a simple RDBMS software that comes with Flask and can handle all our needs.
- SQLite(despite its name) can actually scale quite well for basic applications(100,000 hits per day)

Using SQLAlchemy with Flask:

 SQLAlchemy is a popular database toolkit and Object-Relational Mapper (ORM) for Python applications. It simplifies database interactions by allowing developers to work with Python objects instead of raw SQL queries for create, update, select and delete from our database. Flask integrates seamlessly with SQLAlchemy via the Flask-SQLAlchemy extension.

pip install Flask-SQLAlchemy

- To begin working with the Databases, we'll do the following:
 - 1. Set up the SQLite database in a Flask App
 - 2. Create a Model in Flask App
 - 3. Perform the basic CRUD on out Model

Folder Structure:

```
Flask_SQLAlchemy_App

|
|--app.py
|
|--templates/
| |--index.html
|
|--app.db
```

Configuring Flask-SQLAlchemy:

1. Database Configuration in Flask:

Example 1 Basic:

app.py

```
# Define the Student model
class Student(db.Model):
   __tablename__ = "student"
   id = db.Column(db.Integer, primary key=True)
   name = db.Column(db.String(100), nullable=False)
   age = db.Column(db.Integer, nullable=False)
   course = db.Column(db.String(50), nullable=False)
# parameterized constructor, (Optional)
   def init (self, name, age, course):
        self.name = name
       self.age = age
        self.course = course
# String representation of the object
   def repr (self):
       return f"Id is:{self.id} Name is: {self.name} Age is: {self.age}
course is: {self.course} "
# Database operations within the application context
with app.app context():
   db.create all()
   # Creating the student object
   student1 = Student("Raj", 25, "Computer Science")
   student2 = Student("Simran",22, "IT")
    # Without having a parameterized constructor
   #student1 = Student(name="Raj", age=25, course="Computer Science")
```

```
# student2 = Student(name="Simran", age=22, course="IT")

# Here roll will become None
print(student1)
print(student2)

# db.session.add(student1)
# db.session.add(student2)

db.session.add_all([student1, student2])
db.session.commit()

# Here The id will be 1 and 2
#Primary key column will be auto-generated if we don't give its value
print(student1)
print(student2)
```

Code Breakdown and Explanation

```
from flask import Flask
from flask_sqlalchemy import SQLAlchemy
```

1. Importing Required Modules

- Flask: This is the Flask framework, used to create the web application.
- SQLA1chemy: This is the ORM (Object Relational Mapper) that allows us to interact
 with a relational database like SQLite using Python objects instead of raw SQL
 queries.

```
app = Flask(__name__)
```

2. Initializing Flask App

- Flask(__name__) creates an instance of the Flask application.
- __name__ refers to the current module name and helps Flask determine where to look for resources like templates and static files.

```
# Configure SQLite database
app.config['SQLALCHEMY_DATABASE_URI'] = 'sqlite:///students.db'
```

3. Setting Up the Database URI

- app.config is used to configure the Flask application.
- 'SQLALCHEMY_DATABASE_URI' is a special key that tells SQLAlchemy which database to use.
- 'sqlite:///students.db' means:
 - \circ sqlite:// \rightarrow Specifies that SQLite is the database system.
 - \circ students.db \to The database file will be created in the same directory as this script.
 - If students.db does not exist, it will be created automatically when the database is initialized.

```
app.config['SQLALCHEMY_TRACK_MODIFICATIONS'] = False
```

4. Disabling Modification Tracking

- SQLALCHEMY_TRACK_MODIFICATIONS is a setting that enables/disables tracking of object modifications before committing them.
- Why False?

- Saves memory (less overhead).
- Avoids warnings from Flask-SQLAlchemy.
- Improves performance (since change tracking is not needed).

```
# Initialize database
db = SQLAlchemy(app)
```

5. Initializing SQLAlchemy

- SQLA1chemy(app): Creates a database object (db) that we can use to define and interact with the database.
- This line connects SQLAlchemy with the Flask app.

```
class Student(db.Model):
```

6. Defining the Student Model (Database Table)

- db. Model: This makes Student a model (table) in the database.
- Each Student instance represents one row in the database.

```
__tablename__ = "student"
```

7. Adding table name

- This explicitly sets the name of the database table associated with the Student model.
- By default, SQLAlchemy automatically assigns a table name based on the class name (Student → student in lowercase).

• But when we define __tablename__ = "student", we are manually specifying that the table should be named "student" in the database.

8. Defining the id Column (Primary Key)

- db.Column(...) defines a column in the database.
- db.Integer → The data type of this column is Integer.
- primary_key=True → This means:
 - Each student will have a unique id.
 - Automatically increments for each new student.

```
name = db.Column(db.String(100), nullable=False)
```

9. Defining the name Column

- db.String(100) → This column stores text with a maximum of 100 characters.
- nullable=False → This means the name cannot be empty (NULL).

```
age = db.Column(db.Integer, nullable=False)
```

10. Defining the age Column

- db.Integer → Stores the student's age as an integer.
- nullable=False → Age cannot be empty.

```
course = db.Column(db.String(50), nullable=False)
```

11. Defining the course Column

- db.String(50) → Stores the course name (max 50 characters).
- nullable=False → Course cannot be empty.

```
def __repr__(self):
    return f"<Student {self.name}>"
```

12. Defining __repr__ Method

Purpose: This defines how the Student object is represented when printed.

Example Usage:

python

CopyEdit

```
student = Student(name="Alice", age=20, course="Computer Science")
print(student) # Output: <Student Alice>
```

•

• This makes debugging easier.

```
# Create database
with app.app_context():
    db.create_all()
```

13. Creating the Database

- app.app_context(): Creates an application context, allowing SQLAlchemy to interact with the database.
- db.create_all(): Creates the database and all tables based on the models (Student table in this case).
- If students.db already exists, it does nothing.
- If students.db does not exist, it creates it automatically.

Complete Workflow

- 1. Flask App is Created → app = Flask(__name__)
- 2. SQLite Database is Configured → app.config['SQLALCHEMY_DATABASE_URI']
- 3. SQLAlchemy is Initialized → db = SQLAlchemy(app)
- Database Model (Student) is Defined → class Student(db.Model)
- 5. Database is Created → db.create_all()
- 6. Now, You Can Add and Retrieve Students from the Database!

Example 2 With os:

app.py:

```
# Define the Student model
class Student(db.Model):
   __tablename__ = "student"
   roll = db.Column(db.Integer, primary key=True)
   name = db.Column(db.String(100))
   address = db.Column(db.String(100))
   marks = db.Column(db.Integer)
# parameterized constructor, (Optional)
   def init (self, name, address, marks):
        self.name = name
       self.address = address
        self.marks = marks
# String representation of the object
   def repr (self):
       return f"Roll is:{self.roll} Name is: {self.name} Address is:
{self.address} Marks is: {self.marks} "
# Database operations within the application context
with app.app context():
   db.create all()
    # Creating the student object
   student1 = Student("Raj", "Delhi", 850)
   student2 = Student("Simran", "Mumbai", 750)
    # Without having a parameterized constructor
   #student1 = Student(roll=101, name="Ram", address="Delhi", marks=850)
    # student2 = Student(name="Shyam", address="Mumbai", marks=650)
    # Here roll will become None
```

```
print(student1)
print(student2)

# db.session.add(student1)
# db.session.add(student2)

db.session.add_all([student1, student2])
db.session.commit()

# Here The roll will be 1 and 2

#Primary key column will be auto-generated if we don't give its value print(student1)
print(student2)
```

Important Point:

- For performing any insert, update and delete operation we must make use of the commit() function, otherwise the record will not be affected.
- But for performing the select, or read operation there is no need to use the commit() function.
- If we don't use the **basedir** and use the Database URI as: **sqlite:**///app.db then it will create this app.db file inside the instance folder in our application relative location.

Note: once we run the above application the app.db file will be created inside the current working directory

DB browser for SQLite database:

• If you want to inspect your app. db SQLite file and its tables, you can use a graphical user interface (GUI) tool.

Steps to Open the app. db File:

Using DB Browser for SQLite

1. Download and Install:

- o Download from https://sqlitebrowser.org/.
- o Install the application based on your operating system.

2. Open app.db:

- o Launch DB Browser for SQLite.
- Click on File > Open Database.
- Navigate to the location of your app.db file.
- Select and open the file.

3. View Tables:

- o Go to the **Database Structure** tab.
- You'll see a list of all the tables (e.g., student).
- Click on a table to view its columns and structure.

4. View Data:

- Switch to the Browse Data tab.
- Select the table you want to inspect (e.g., student) to view its rows.

Inserting Data (Create)

```
    You can add new records (rows) to your database using SQLAlchemy's
session.add() and session.commit() methods
```

```
# Create a new student
```

```
new_student = Student(name="Alice", address="New York", marks=900)
```

Add the student to the session and commit the transaction

db.session.add(new_student)

db.session.commit()

Alternatively, you can add multiple records at once using add_all():

```
# Add multiple students
```

```
students = [
```

```
Student(name="Bob", address="California", marks=800),
Student(name="Charlie", address="Texas", marks=850)

# Add all students and commit
db.session.add_all(students)
db.session.commit()
```

• Selecting all the student records from the table:

```
all_students = Student.query.all()
print(all_students)
```

Selecting by Primary key (roll) column:

```
student = Student.query.get(1)
print(student)
```

#Note the above method is deprecated in the latest version of Flask, instead we should use # the following method:

```
student = db.session.get(Student, 1000)
if(student):
    print(student)
else:
    print("No Student found")
```

- Selecting by non-primary key column:
 - It will return the list of objects.
 - filter_by() function: for performing simple comparison like ==

```
students_with_marks = Student.query.filter_by(marks= 850).all() print(students_with_marks)
```

o To get the first record:

```
student = Student.query.filter_by(name="Raj").first()
print(student)

filter() function: for performing some complex comparison like (>, ==, and, or, etc., )

# Marks greater than 800
students = Student.query.filter(Student.marks > 800).all()

# Using multiple conditions with logical operators
students = Student.query.filter(Student.marks > 800, Student.address == 'Delhi').all() # Marks greater than 800 and address is Delhi
```

Updating a specific record in the table

o Here first of all we need to find the object which we need to update

```
student = db.session.get(Student, 1000)
student.address="Chennai"
student.marks = 700
db.session.add(student)
db.session.commit()
```

Update multiple records with filter condition

```
Student.query.filter(Student.address == "Mumbai").update( {Student.marks: 800}, synchronize_session=False ) db.session.commit()
```

Deleting a specific record from the table:

Here also first we need to find the object which we need to delete

```
student = db.session.get(Student, 1000)
db.session.delete(student)
db.session.commit()
```

Deleting multiple records

```
# Delete all students with marks less than 700
Student.query.filter(Student.marks < 700).delete()
db.session.commit()
```

• Count the Number of total Students/Records:

```
total_students = Student.query.count()
print(f"Total students: {total_students}")
```

Count students with marks greater than 800
 high_marks_count = Student.query.filter(Student.marks > 800).count()
 print(high_marks_count)

• Limiting the Results:

Get the first 3 students top_students = Student.query.limit(3).all() print(top_students)

Example Application 1:

• Create a flask application to get the students' details from the form page and after submitting the details, store them inside the database and display all the students' records inside a table from the database.

Folder Structure:

FlaskDatabaseApp1

```
|
|-- app.py
|
|-- templates/|
|
|-- base.html
```

```
|-- index.html
|-- student.html
|
|-- app.db (This will be created automatically when the database is initialized)
```

app.py:

```
from flask import Flask, render template, request
from flask sqlalchemy import SQLAlchemy
import os
# Initialize Flask application and configure database
app = Flask( name )
basedir = os.path.abspath(os.path.dirname( file ))
app.config["SQLALCHEMY_DATABASE_URI"] = "sqlite:///" + \
   os.path.join(basedir, "app.db")
app.config["SQLALCHEMY_TRACK_MODIFICATIONS"] = False
db = SQLAlchemy(app)
# Database model
class Student(db.Model):
   roll = db.Column(db.Integer, primary key=True)
   name = db.Column(db.String(100), nullable=False)
   address = db.Column(db.String(200), nullable=False)
   marks = db.Column(db.Integer, nullable=False)
   def __repr__(self):
        return f"Student('{self.roll}', '{self.name}', '{self.address}',
'{self.marks}')"
# Create the database tables
with app.app context():
```

```
db.create all()
# Route to display home page
@app.route("/")
def index():
    return render template("index.html")
# Route to register a student
@app.route("/student", methods=["GET", "POST"])
def student():
    if request.method == "POST":
        # Fetch the form data
        roll = request.form.get("roll")
        name = request.form.get("name")
        address = request.form.get("address")
        marks = request.form.get("marks")
        # Create a new student record in the database
        new student = Student(
            roll=int(roll),
            name=name,
            address=address,
           marks=int(marks)
        )
        # Add the new student to the database session and commit
        db.session.add(new student)
        db.session.commit()
    # Query all students from the database
    students = Student.query.all()
    return render template("student.html", students=students)
if __name__ == '__main__':
    app.run (debug=True)
```

base.html:

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>{% block title block %} {% endblock %}</title>
   link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.
css" rel="stylesheet"
integrity="sha384-QWTKZyjpPEjISv5WaRU9OFeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6h
W+ALEwIH" crossorigin="anonymous">
</head>
<body bgcolor="Cyan">
   <header>
       <h1 class="text-center">Welcome to Chitkara</h1>
   </header>
   <main>
       {% block main block %}
       {% endblock %}
   </main>
   <footer>
       © 2025 Student Information System
   </footer>
</body>
</html>
```

index.html:

```
{% extends "base.html" %}
```

```
{% block title_block %} Home Page {% endblock %}

{% block main_block %}

<a href="{{url_for('student')}}">Register A Student</a>
{% endblock %}
```

student.html:

```
{% extends "base.html" %}
{% block title block %} Student Page {% endblock %}
{% block main block %}
<h2 class="text-center">Student Registration Screen</h2>
<a href="{{url for('index')}}">Back</a>
<form action="{{url for('student')}}" method="POST">
    <div class="form-group">
        <label for="roll">Roll Number</label>
        <input type="number" class="form-control" id="roll"</pre>
placeholder="Enter Roll Number" name="roll" required>
    </div>
    <div class="form-group">
        <label for="name">Name</label>
        <input type="text" class="form-control" id="name"</pre>
placeholder="Enter Name" name="name" required>
    </div>
    <div class="form-group">
        <label for="address">Address
        <input type="text" class="form-control" id="address"</pre>
placeholder="Enter Address" name="address" required>
    </div>
    <div class="form-group">
        <label for="marks">Marks</label>
        <input type="number" class="form-control" id="marks"</pre>
placeholder="Enter Marks" name="marks" required>
    </div>
    <button type="submit" class="btn btn-primary">Register</button>
</form>
```

```
{% if students %}
<hr>
<thead>
    Roll Number
       Student Name
       Student Address
       Student Marks
     </thead>
  {% for student in students %}
     {{ student.roll }}
       {{ student.name }}
       {{ student.address }}
       {{ student.marks }}
     {% endfor %}
  {% endif %}
{% endblock %}
```

Extending the above application: Using CRUD operation:

```
FlaskDatabaseApp1
```

```
|
|-- app.py
|
|-- templates/|
```

```
|-- base.html
|-- index.html
|-- student.html
|--update_student.html
|
|-- app.db (This will be created automatically when the database is initialized)
```

app.py:

```
from flask import Flask, render template, request, redirect, url for
from flask sqlalchemy import SQLAlchemy
import os
# Initialize Flask application and configure database
app = Flask( name )
basedir = os.path.abspath(os.path.dirname( file ))
app.config["SQLALCHEMY_DATABASE_URI"] = "sqlite:///" + \
   os.path.join(basedir, "app.db")
app.config["SQLALCHEMY TRACK MODIFICATIONS"] = False
db = SQLAlchemy(app)
# Database model
class Student(db.Model):
   roll = db.Column(db.Integer, primary_key=True)
   name = db.Column(db.String(100), nullable=False)
   address = db.Column(db.String(200), nullable=False)
   marks = db.Column(db.Integer, nullable=False)
   # email= db.Column(db.String(100), unique=True)
   def __repr__(self):
```

```
return f"Student('{self.roll}', '{self.name}', '{self.address}',
'{self.marks}')"
# Create the database tables
with app.app_context():
    db.create all()
# Route to display home page
@app.route("/")
def index():
    return render template("index.html")
# Route to register a student
@app.route("/student", methods=["GET", "POST"])
def student():
    if request.method == "POST":
        # Fetch the form data
        roll = request.form.get("roll")
        name = request.form.get("name")
        address = request.form.get("address")
        marks = request.form.get("marks")
        # Create a new student record in the database
        new student = Student(
            roll=int(roll),
            name=name,
            address=address,
           marks=int(marks)
        )
        # Add the new student to the database session and commit
        db.session.add(new student)
        db.session.commit()
    # Query all students from the database
```

```
students = Student.query.all()
   return render template("student.html", students=students)
# Route to update a student record
@app.route("/update/<int:roll>", methods=["GET", "POST"])
def update student(roll):
  #student = Student.query.get or 404(roll)
 student = db.session.get(Student, roll)
   if request.method == "POST":
        student.name = request.form.get("name")
        student.address = request.form.get("address")
        student.marks = request.form.get("marks")
        db.session.commit()
        return redirect(url for('student'))
   return render template("update student.html", student=student)
# Route to delete a student record
@app.route("/delete/<int:roll>")
def delete student(roll):
   student = db.session.get(Student, roll)
   db.session.delete(student)
   db.session.commit()
   return redirect(url for('student'))
if name == ' main ':
   app.run (debug=True)
```

base.html:

```
<!DOCTYPE html>
```

```
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>{% block title_block %} {% endblock %}</title>
   link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.3/dist/css/bootstrap.min.
css" rel="stylesheet"
integrity="sha384-QWTKZyjpPEjISv5WaRU90FeRpok6YctnYmDr5pNlyT2bRjXh0JMhjY6h
W+ALEwIH" crossorigin="anonymous">
</head>
<body bgcolor="Cyan">
   <header>
       <h1 class="text-center">Welcome to Chitkara</h1>
   </header>
   <main>
       {% block main block %}
       {% endblock %}
   </main>
   <footer>
       © 2025 Student Information System
   </footer>
</body>
</html>
```

index.html:

```
{% extends "base.html" %}

{% block title_block %} Home Page {% endblock %}

{% block main_block %}

<a href="{{url_for('student')}}">Register A Student</a>
{% endblock %}
```

student.html:

```
{% extends "base.html" %}
{% block title block %} Student Page {% endblock %}
{% block main block %}
<h2 class="text-center">Student Registration Screen</h2>
<a href="{{url for('index')}}">Back</a>
<form action="{{url for('student')}}" method="POST">
   <div class="form-group">
        <label for="roll">Roll Number</label>
        <input type="number" class="form-control" id="roll"</pre>
placeholder="Enter Roll Number" name="roll" required>
    </div>
   <div class="form-group">
        <label for="name">Name</label>
        <input type="text" class="form-control" id="name"</pre>
placeholder="Enter Name" name="name" required>
   </div>
   <div class="form-group">
        <label for="address">Address</label>
        <input type="text" class="form-control" id="address"</pre>
placeholder="Enter Address" name="address" required>
   </div>
   <div class="form-group">
        <label for="marks">Marks</label>
        <input type="number" class="form-control" id="marks"</pre>
placeholder="Enter Marks" name="marks" required>
   </div>
    <button type="submit" class="btn btn-primary">Register</button>
</form>
{% if students %}
<hr>
<thead>
```

```
Roll Number
         Student Name
         Student Address
         Student Marks
         Actions
      </thead>
   {% for student in students %}
      {{ student.roll }}
         {{ student.name }}
         {{ student.address }}
         {{ student.marks }}
         <a href="{{ url for('update student', roll=student.roll)</pre>
}}" class="btn btn-warning btn-sm">Update</a>
            <a href="{{ url for('delete student', roll=student.roll)</pre>
}}" class="btn btn-danger btn-sm"
                onclick="return confirm('Are you sure you want to
delete this record?')">Delete</a>
         {% endfor %}
   {% endif %}
{% endblock %}
```

update_student.html:

```
{% extends "base.html" %}

{% block title_block %} Update Student {% endblock %}

{% block main_block %}

<h2 class="text-center">Update Student Details</h2>
<a href=""{{url for('student')}}">Back</a>
```

```
<form action="{{url for('update student', roll=student.roll)}}"</pre>
method="POST">
    <div class="form-group">
        <label for="roll">Roll Number</label>
        <input type="number" class="form-control" id="roll" name="roll"</pre>
value="{{ student.roll }}" disabled>
    </div>
    <div class="form-group">
        <label for="name">Name</label>
        <input type="text" class="form-control" id="name" name="name"</pre>
value="{{ student.name }}" required>
    </div>
    <div class="form-group">
        <label for="address">Address
        <input type="text" class="form-control" id="address"</pre>
name="address" value="{{ student.address }}" required>
    </div>
    <div class="form-group">
        <label for="marks">Marks</label>
        <input type="number" class="form-control" id="marks" name="marks"</pre>
value="{{ student.marks }}" required>
    </div>
    <button type="submit" class="btn btn-primary">Update/button>
</form>
{% endblock %}
```