**Installation of the Project:**

**1 .Get the project files :** copy the project.zip file and unzip the file.

**2.Setup Environment:**

Navigate into the project directory and set up a virtual environment to isolate dependencies. This ensures that the project's dependencies do not conflict with other Python projects on your system.

cd brain\_tumor\_detection

python3 -m venv venv

**3.Activate Virtual Environment:**

Activate the virtual environment to install dependencies specific to the project.

On Windows:

venv\Scripts\activate

On Unix or MacOS:

source venv/bin/activate

**4.Install Dependencies:**

Use pip to install the required Python packages listed in the requirements.txt file.

pip install -r requirements.txt

**5.Database Setup**:

Ensure that MySQL is installed on your system. Create a MySQL database called “project”.

**6.Model Training:**

Train the Convolutional Neural Network (CNN) model using the provided dataset. Ensure that the dataset is properly preprocessed and split into training and testing sets.

**7.Integration with Flask App**:

Integrate the trained CNN model with the Flask web application. This involves creating appropriate routes and views to handle user requests for uploading MRI scan images, processing the images using the CNN model, and displaying the results.

**8.Migration to MySQL:**

**Initialize Flask-Migrate:** Initialize Flask-Migrate in your Flask application. This command will create a migrations directory where migration scripts will be stored.

flask db init

**Generate Migration**: After defining your models, generate an initial migration script that captures the current state of your database models.

flask db migrate -m "Initial migration"

**Apply Migration**: Apply the migration to your database to create the necessary tables.

flask db upgrade