Project Title: Real-Time Credit Card Fraud Detection

Project Setup Guide

# 1. Install Required Software

1. Install PyCharm 2023.3.2  
- Download from https://www.jetbrains.com/pycharm/download/  
- Complete installation.  
  
2. Install Python 3.11  
- Download from https://www.python.org/downloads/release/python-3110/  
- During installation, check "Add Python to PATH".  
- Verify installation:  
 python --version  
  
3. Install WAMP Server  
- Download from http://www.wampserver.com/en/  
- Install and start WAMP.  
- Ensure the WAMP icon turns green (all services running).

# 2. Extract and Open the Project in PyCharm

1. Extract the Project Files  
- Unzip the project archive to a chosen folder.  
  
2. Open Project in PyCharm  
- Launch PyCharm.  
- Click “Open”.  
- Select the extracted project folder.

# 3. Set Up the Python Interpreter

- Go to File > Settings > Project: [Your Project] > Python Interpreter.  
- Click the gear icon → Add Interpreter.  
- Choose "System Interpreter" and select Python 3.11.  
- Click OK.

# 4. Install Required Python Packages

- Open the terminal in PyCharm or use CMD.  
- Navigate to the project directory.  
- If there is a requirements.txt file, run:  
 pip install -r requirements.txt  
- Otherwise, install manually:  
 pip install flask

# 5. Run the Application

- Locate app.py in the project.  
- Right-click app.py → Run "app" or run from terminal:  
 python app.py  
- Wait for Flask server to start. You should see:  
 Running on http://127.0.0.1:5000  
- Open a browser and go to:  
 http://127.0.0.1:5000

# 6. MySQL Configuration with WAMP

1. Start MySQL in WAMP  
- Click WAMP icon → MySQL → Service → Start/Resume Service.  
  
2. Create the Database and Tables  
A. Using phpMyAdmin:  
- Go to http://localhost/phpmyadmin  
- Login (default user: root, password: blank unless set).  
- Click New, enter a DB name, click Create.  
- Import your .sql file using the Import tab.  
  
B. Manually:  
- Use the SQL tab to run CREATE TABLE queries.  
  
3. Configure app.py  
- Use pymysql to connect:  
  
 import pymysql  
 conn = pymysql.connect(  
 host='localhost', user='root', password='', db='myprojectdb',  
 charset='utf8mb4', cursorclass=pymysql.cursors.DictCursor)  
  
- Don’t forget to install pymysql:  
 pip install pymysql