
PYTHON ACP SET UP

Hasa Leveling App: Setup and Installation Guide

Overview

This guide will walk you through setting up the required dependencies, configuring the MySQL database, and running the application.

Prerequisites

Before running the app, ensure you have the following installed:

1. Python 3.x
 2. MySQL Server (and MySQL running in the background)
 3. Required Python Packages
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1. Project Structure

Ensure your project directory is structured exactly as follows, with the assets folder containing all necessary images and audio files:

```
HasaLeveling/
└── HasaLeveling.py (The main application script)
└── assets/
    ├── bgmusic.mp3 (Background music)
    ├── clicksoundeffect.wav (Sound effect)
    ├── logoicon.png (Application icon)
    └── dashboard.png (Example background images, etc.)
```

└─ ... (All other PNG/JPG files used in the code)

2. Python Dependencies

Install the necessary Python libraries using pip.

```
pip install tk pillow pygame mysql-connector-python
```

Package Purpose

tk – Main GUI framework (usually built-in)

pillow – Image loading and manipulation

pygame – Audio playback (background music and sound effects)

mysql-connector-python – Database connection and interaction

3. MySQL Database Setup

The application connects to a MySQL database named hasaleveling_db.

A. Configure Database Connection

Open HasaLeveling.py and modify the DB_CONFIG dictionary with your local MySQL credentials:

```
DB_CONFIG = {  
    "host": "localhost",  
    "user": "root",  
    "password": "jayvee101", => change this kung ano password ng setup ng workbench or mysql niyo  
    "database": "hasaleveling_db"  
}
```

B. Create the Database and Table

Run these SQL commands in MySQL:

```
CREATE DATABASE hasaleveling_db;
USE hasaleveling_db;

CREATE TABLE user_progress (
    username VARCHAR(9) PRIMARY KEY,
    gender VARCHAR(10) NOT NULL,
    html_progress DECIMAL(3,2) NOT NULL DEFAULT 0.10,
    cplusplus_progress DECIMAL(3,2) NOT NULL DEFAULT 0.10,
    mysql_progress DECIMAL(3,2) NOT NULL DEFAULT 0.10,
    python_progress DECIMAL(3,2) NOT NULL DEFAULT 0.10,
    java_progress DECIMAL(3,2) NOT NULL DEFAULT 0.10,
    CHECK (html_progress BETWEEN 0.00 AND 1.00),
    CHECK (cplusplus_progress BETWEEN 0.00 AND 1.00),
    CHECK (mysql_progress BETWEEN 0.00 AND 1.00),
    CHECK (python_progress BETWEEN 0.00 AND 1.00),
    CHECK (java_progress BETWEEN 0.00 AND 1.00)
);
```

4. Running the Application

After completing the prerequisites, dependencies, and MySQL setup, run the app using:

```
python HasaLeveling.py
```

Troubleshooting

- If you get a database connection error, verify that your MySQL server is running and that the credentials in DB_CONFIG are correct.
 - "Warning: Asset not found" means an image or audio file listed in HasaLeveling.py is missing from the assets folder.
 - If music or sound doesn't play, check that pygame is installed and the audio files exist.
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