## Partner Matching System - Final Setup Guide (User-Only with Authentication)

1. MySQL Database Setup CREATE DATABASE partner\_matching; USE partner\_matching; CREATE TABLE IF NOT EXISTS users ( id INT AUTO\_INCREMENT PRIMARY KEY, name VARCHAR(100), skill1 VARCHAR(50), skill2 VARCHAR(50), skill3 VARCHAR(50), skill4 VARCHAR(50), skill5 VARCHAR(50), experience VARCHAR(50), years\_of\_experience INT, availability VARCHAR(50), contact VARCHAR(100), username VARCHAR(50) UNIQUE, password VARCHAR(100) ); 2. Python-MySQL Connection (db\_config.py) import mysql.connector def get\_connection(): return mysql.connector.connect( host="localhost", user="root", # Change if your MySQL username is different

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password="root", # Change if your password is different
    database="partner_matching"
  )
3. User Registration (auth.py)
from db_config import get_connection
def register_user():
  con = get_connection()
  cur = con.cursor()
  name = input("Name: ")
  skills = [input(f"Skill {i+1}: ") for i in range(5)]
  experience = input("Experience (e.g. Beginner): ")
  years = int(input("Years of Experience: "))
  availability = input("Availability: ")
  contact = input("Contact: ")
  username = input("Create Username: ")
  password = input("Create Password: ")
  query = "
   INSERT INTO users (name, skill1, skill2, skill3, skill4, skill5, experience, years_of_experience,
availability, contact, username, password)
  values = (name, *skills, experience, years, availability, contact, username, password)
  cur.execute(query, values)
  con.commit()
  con.close()
  print("User registered successfully!")
```

4. User Login and Partner Matching (main.py)

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from db_config import get_connection
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def login_user():
  con = get_connection()
  cur = con.cursor()
  username = input("Username: ")
  password = input("Password: ")
   cur.execute("SELECT * FROM users WHERE username=%s AND password=%s", (username,
password))
  user = cur.fetchone()
  if user:
     print("Login successful. Welcome", user[1])
    find_partner()
  else:
     print("Invalid credentials.")
  con.close()
def find_partner():
  con = get_connection()
  cur = con.cursor()
  skill = input("Enter required skill: ")
  availability = input("Enter preferred availability: ")
  query = "
  SELECT * FROM users WHERE
  (skill1=%s OR skill2=%s OR skill3=%s OR skill4=%s OR skill5=%s)
  AND availability=%s
  cur.execute(query, (skill, skill, skill, skill, skill, availability))
  matches = cur.fetchall()
  if matches:
     print("Matching Partners Found:")
     for m in matches:
```

```
print(m)
else:
  print("No matching partners found.")
con.close()
```

- 5. Running the App
- 1. Run `register\_user()` to create a new account
- 2. Run `login\_user()` to log in and find a partner

Make sure to update MySQL credentials in db\_config.py before running.