**Installation Guide**

**Prerequisites**

1. Python 3.12 or higher: Ensure you have Python installed on your system. Download it from python.org.
2. Install VS Code: Download and install Visual Studio Code from code.visualstudio.com.
3. Install XAMPP: Download and install XAMPP from apachefriends.org.

**Step-by-Step Installation**

1. **Download the Project**

* Extract the provided zip file to your desired directory.

**2. Open the Project in VS Code**

1. **Launch VS Code**.
2. **Open the Project Folder**:
   * Go to File > Open Folder... and select the extracted project folder KACA\_FINAL.

**3. Install Python Extension**

* Install the Python extension for VS Code:
  + Go to the Extensions view by clicking on the Extensions icon in the Activity Bar on the side of the window or press Ctrl+Shift+X.
  + Search for Python and install the extension provided by Microsoft.

**4. Install Required Dependencies**

Run the following pip commands in the VS Code terminal to install the required dependencies:

install Flask

install deep-translator

install mysql-connector-python

install langchain

install pandas

install numpy

install matplotlib

install sqlalchemy

install reportlab

install pymysql

install node.js

install beautifulsoup

install bs4

**5. Configure the Database Using XAMPP**

1. Start XAMPP Control Panel:

Launch the XAMPP Control Panel and start the Apache and MySQL services.

1. Access phpMyAdmin:

Open a web browser and go to <http://localhost/phpmyadmin>.

1. Create a Database:

In phpMyAdmin, create a new database named FYP.

1. Create Database Tables and Data:

Use the SQL tab in phpMyAdmin to run SQL scripts to set up tables and insert initial data.

**6. Configure the Database Connection in app.py**

Open app.py and update the db\_config dictionary with your MySQL connection details:

A computer screen with a black background

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NOTE: “your\_password” change to your own password when you setup the database

**7. Run the Application**

In the VS Code terminal, Open app.py and click the run at the right top to start the Flask server:

A screenshot of a computer

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**8. Admin interface**

1. Go to file explorer and import the folder

2. Download node.js. The link his: [Node.js — Download Node.js® (nodejs.org)](https://nodejs.org/en/download/prebuilt-installer)

3. Run the node.js

4.Go to system enviroment in your search bar.

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4. Click on Environment Variables

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5. create a new path by click to new button and find the node.js file that already install.

6. Open the Admin interface folder in Visual Studio Code

7. Open new terminal and run this code: node .\admin\panel\server.js

8. Find index.html and double click on the file to opwn in browser.

9. Login Detail:

Username:admin  
password: admin

**9. Crisp Agent dashboard**1. Go to by click this link [Crisp](https://app.crisp.chat/initiate/login/)

2. In login page   
A screenshot of a login page

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3. Login detail :

Username : chatbot1008@gmail.com

Password :Rao100082001$

4. Click on this icon to start chat.

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**Detailed Description**

app.py

* Main entry point of the web application.
* Sets up the Flask server and defines the routes for the web pages.
* Connects to the MySQL database using mysql.connector.

Generate.py

* Script related to generating test cases or data for the application.
* Uses libraries like pandas, numpy, matplotlib, and sqlalchemy.

RAG.py

* Script containing specific functionalities required by the application.
* May interact with the main app.py.

static/

* Contains all static files (JavaScript, CSS, images).

templates/

* Contains HTML templates for rendering the web pages.