

MASTER OF TECHNOLOGY (INTELLIGENT SYSTEMS)

USER GUIDE



- Enhancing Birdwatching with AI

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Accessing WingSpan Application

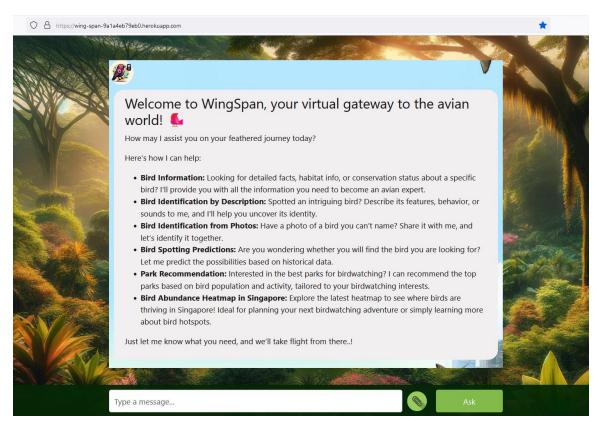
WingSpan is accessible both online and offline. This guide details on how to access the deployed online application as well as setup process for running the application locally (offline)

1. Accessing Online

The application is hosted on the Heroku cloud and can be accessed through the URL provided below.

URL: https://wing-span-9a1a4eb79eb0.herokuapp.com/

Interacting with the chat application is straightforward with the very intuitive user interface.





2. Running the Web application Locally

2.1 Setting Up a Python Environment Using Conda

- 1. Download and install Anaconda from the Anaconda website, ensuring you select a version that includes Conda.
- 2. Open Anaconda Prompt:
 - Launch from the Start Menu (Windows) or terminal (macOS and Linux).
- 3. Create a New Conda Environment with the runtime python version for the application:
 - Command: conda create -n wingspan python=3.11.7
- 4. Activate the Conda Environment:
 - Command: conda activate wingspan

2.2 Django Web Application Local Set up

1. Clone the below GitHub repository to your local machine. https://github.com/jithinkrn/IRS-PM-2024-01-13-IS06PT-GRP-WingSpan.git

Command:

git clone https://github.com/jithinkrn/IRS-PM-2024-01-13-IS06PT-GRP-WingSpan.git

2. Install requirements.txt in your Conda environment created earlier. The requirements.txt file is located at:

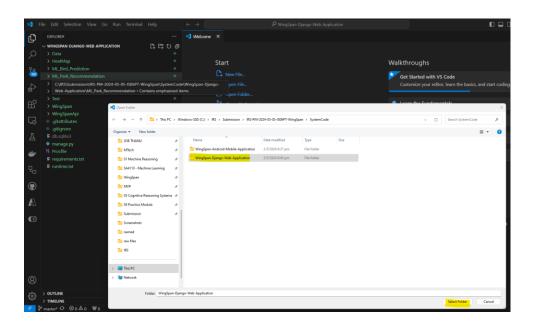
~\IRS-PM-2024-01-13-IS06PT-GRP-WingSpan\SystemCode**WingSpan-Django-Web-Application**

Command:

pip install -r requirements.txt

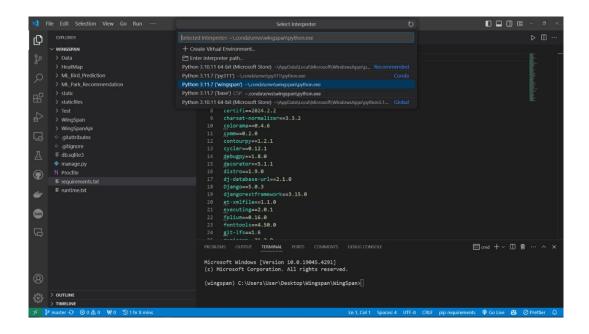


3. Launch Visual Studio Code and Open the Project Folder "WingSpan-Django-Web-Application" by navigating to below directory in the repo



- 4. Selecting the Python Environments in Visual Studio Code
 - Open Command Palette (Ctrl+Shift+P or Cmd+Shift+P).
 - Choose the conda environment created earlier with *python=3.11.7* and all the requirements installed





5. Configure Open AI API Key as environment variable (The API key will be uploaded to Canvas with the submission documents in a text file). In visual studio menu go to Terminal > New Terminal and enter the command below

Windows Command:

Run: setx OPENAI_API_KEY "PROVIDED_API_KEY_HERE"

Linux/Mac Command:

export OPENAI_API_KEY "PROVIDED_API_KEY_HERE":~/bin

6. **For Linux/Mac users only:** In the VS code terminal, enter the following command. *python manage.py migrate*

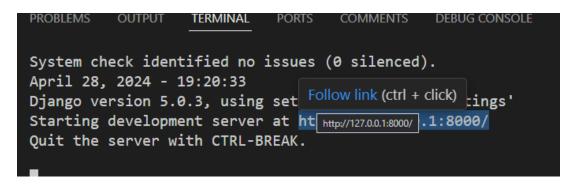
WingSpan-Django-Web-Application % python manage.py migrate

7. **Starting the server:** In the VS code terminal, enter the following command: *python manage.py runserver*

(wingspan) C:\Users\User\Desktop\Wingspan\WingSpan>python manage.py runserver



Once the server runs. It will display the local host link. Open browser and navigate to http://127.0.0.1:8000/ to view the application.





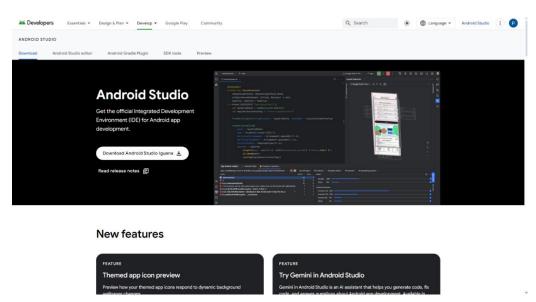
If the OPEN AI Key and other requirement setups are correct, you should be able to, chat with application.

8. To stop the server, you can press CTRL+C in the terminal.



3. Running the WingSpan Android Mobile Application Locally

3.1 Android Studio Setup.



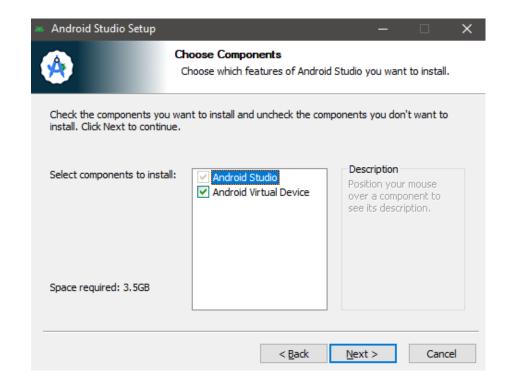
Ensure your system meets the installation requirements.

3.2 Installing Android Studio

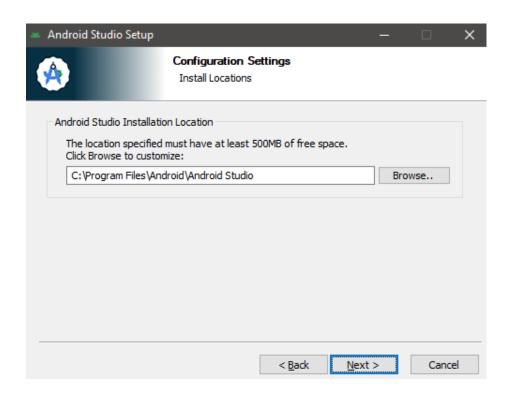
Follow the on-screen instructions to install Android Studio. This typically includes selecting an installation directory, choosing components to install, and configuring initial settings like memory allocations.

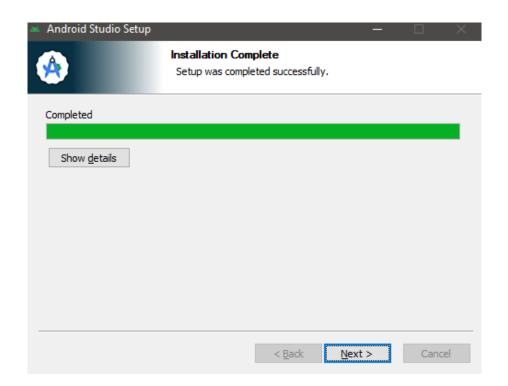




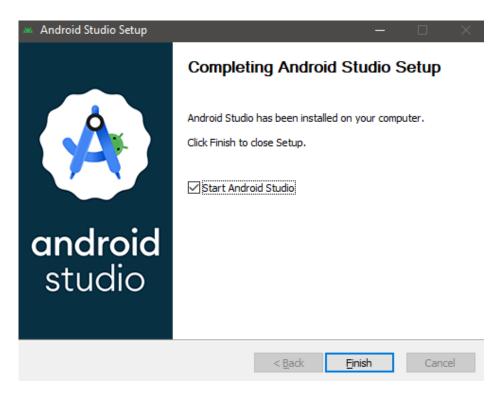










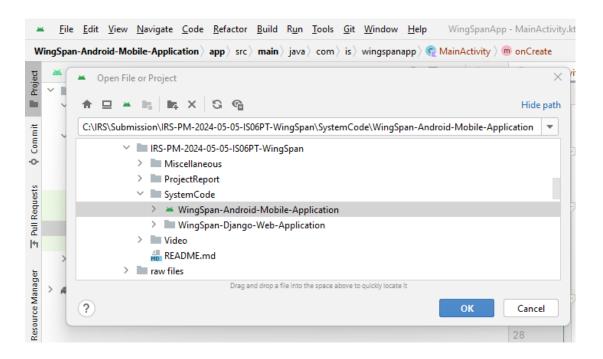


3.4 Opening the Project

Launch Android Studio and open the **WingSpan-Android-Mobile-Application** project with Android Studio.

Location:





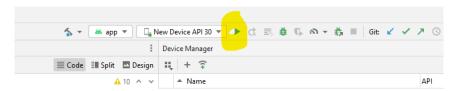
3.5 Gradle Build and Project Configuration

Allow Android Studio to complete the Gradle build.



3.6 Running the application

Once the build is completed click the run Button from the menu.





After the emulator starts, users will be able Interact with the application in the emulator.

