#### Installation Manual

##### Resource Download

Download the system from GitHub.

Since the model file is too big, we put the model file on google drive

Please use the file in <https://drive.google.com/drive/folders/1F3N_WM2dU6VR4YLUfvTJHRhwD3IBFM0K?usp=sharing>

and

<https://drive.google.com/drive/folders/1BLp1M5Nwqo_yFI9_8GjM1GBxX8r0uXfm?usp=sharing>

to replace the file in

capstone-project-25t2-9900-h16a-dount/Deeplasia-master/output/debug

/version\_0

and

capstone-project-25t2-9900-h16a-dount/Deeplasia-master/output/debug

/version\_1

##### Environment Setup

* 1. **Navigate to the project directory**

cd Deeplasia-master

* 1. **Ensure Docker is running in the background**

Please make sure the Docker is installed and Docker daemon is active before proceeding.

##### Backend Deployment

* 1. **Build the backend image**

docker build -t deeplasia-backend .

* 1. **Run the backend container**

docker run -p 5001:5000 deeplasia-backend

·This command maps the container’s port 5000 to the host’s port 5001.

·Once the container starts successfully, the backend API will be available at http//localhost::5001.

##### Frontend Usage

1. **Web GUI**
2. return to the project directory.
3. Navigate to the frontend folder and locate the file: frontend/ web.html.
4. Double-click web.html to open it in a web browser.
5. The web interface is designed face to general users, like doctors and customer service staff. It’s user friendly but currently only support single image upload.
6. Follow the clearly interface in webpage to upload files, choose gender and download.
7. **Command Line Interface (CLI)**
8. Open a new terminal window.
9. Navigate to the frontend directory:

cd frontend

1. Run the CLI tool :

python cli.py --image path/to/image.jpg --male 1

Replace the “path/to/image.jpg -” to your real image file path

Set --male to 1 for male or 0 for female.

1. The generated reports will be saved in frontend/downloaded

And save path will showed in the terminal.

1. **Batch Prediction**
2. Open a new terminal window.
3. Naigate to the frontend directory:

cd frontend

1. Run the batch prediction script:

bash batch\_predict.sh

1. By default, the script processes all images in: frontend/ test

To change the input folder, modify the IMAGE\_DIR variable in batch\_predict.sh. Or alternatively, place your test files directly into the test folder under frontend and re-run the command.

1. All report genarated will be automatically place to frontend/downloaded.

##### Notes

· This installation guide is based on the current project setup.

· Any updates to the process will be documented in the [GitHub README](https://github.com/unsw-cse-comp99-3900/capstone-project-25t2-9900-h16a-dount.git" \t "/Users/wangruonan/Documents\\x/_new).