## Laravel

* For routing and database management

### Database Schema

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Description automatically generated

* model\_num is basically the timestamp when the images from the mobile app is saved.

### How to set-up with this repo

1. In terminal:

git clone <https://github.com/gelinelocarinas118/project1.git>

1. Goto project1 folder, in terminal:

composer install

php artisan:key generate

php migrate

php db:seed

php serve –port 3000

Note: install composer in your pc if not available

Note: you can change the port number but update the port number in .env as well

### How to open server

1. Open xampp. Start both Apache and mysql

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Description automatically generated

1. Php artisan serve –port 3000

* Note: you can change the port number but change the port in .env as well

## Python Flask

* For meshroom and blender automation
* Communicates with laravel through API endpoint.

### How to run server

* In project1 terminal:

Python backend/reconstruct\_3D.py

### Libraries

pip install tensorflow==2.13.0

pip install posenet-python

Openpose

powershell<br>git clone --recursive https://github.com/CMU-Perceptual-Computing-Lab/openpose C:\openpose<br>

## Testing

For testing purposes use postman to send a zip file including:

* front.jpg or front.png
* side.jpg or side.png
* other pictures
* height in cm

Note: avoid sending large files

A screenshot of a computer

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For posenet, openpose, and media pipe experimentation: