1. Navigate to the backend/ folder:   
   mkdir backend && cd backend

npm init -y

1. Install necessary dependencies:

npm install express cors dotenv multer firebase-admin

1. Install AI-related dependencies (for running YOLOv8 + MediaPipe): [we are using 3.11 because mediapipe is not supported in 3.12 or later]

python3.11 -m venv venv   
python -m pip install --upgrade pip

pip install ultralytics opencv-python mediapipe

Successfully installed CFFI-1.17.1 MarkupSafe-3.0.2 absl-py-2.1.0 attrs-25.3.0 certifi-2025.1.31 charset-normalizer-3.4.1 colorama-0.4.6 contourpy-1.3.1 cycler-0.12.1 filelock-3.18.0 flatbuffers-25.2.10 fonttools-4.56.0 fsspec-2025.3.0 idna-3.10 jax-0.5.3 jaxlib-0.5.3 jinja2-3.1.6 kiwisolver-1.4.8 matplotlib-3.10.1 mediapipe-0.10.21 ml\_dtypes-0.5.1 mpmath-1.3.0 networkx-3.4.2 numpy-1.26.4 opencv-contrib-python-4.11.0.86 opencv-python-4.11.0.86 opt\_einsum-3.4.0 packaging-24.2 pandas-2.2.3 pillow-11.1.0 protobuf-4.25.6 psutil-7.0.0 py-cpuinfo-9.0.0 pycparser-2.22 pyparsing-3.2.1 python-dateutil-2.9.0.post0 pytz-2025.1 pyyaml-6.0.2 requests-2.32.3 scipy-1.15.2 seaborn-0.13.2 sentencepiece-0.2.0 six-1.17.0 sounddevice-0.5.1 sympy-1.13.1 torch-2.6.0 torchvision-0.21.0 tqdm-4.67.1 typing-extensions-4.12.2 tzdata-2025.1 ultralytics-8.3.93 ultralytics-thop-2.0.14 urllib3-2.3.0