Object Tracking Application

This project is an object tracking application that uses OpenCV and Streamlit to process and display video files with object tracking.

Features

- Upload video files in MP4, AVI, or MOV format.
- Apply background subtraction to detect moving objects.
- Draw bounding boxes around detected objects.
- Display the processed video frames in a web interface.

Requirements

- Python 3.x
- OpenCV
- Streamlit
- NumPy

Installation

1. Clone the repository:

```
git clone https://github.com/yourusername/Object_tracking_project2.git
cd Object_tracking_project2
```

2. Install the required packages:

```
pip install -r requirements.txt
```

Usage

1. Run the application:

```
streamlit run app.py
```

2. Open your web browser and go to http://localhost:8501.

3. Upload a video file and see the object tracking in action.

File Structure

- app.py: Main application file.

- README.md: Project documentation.
- .gitattributes: Git configuration file.

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Acknowledgements

- OpenCV
- Streamlit
- NumPy