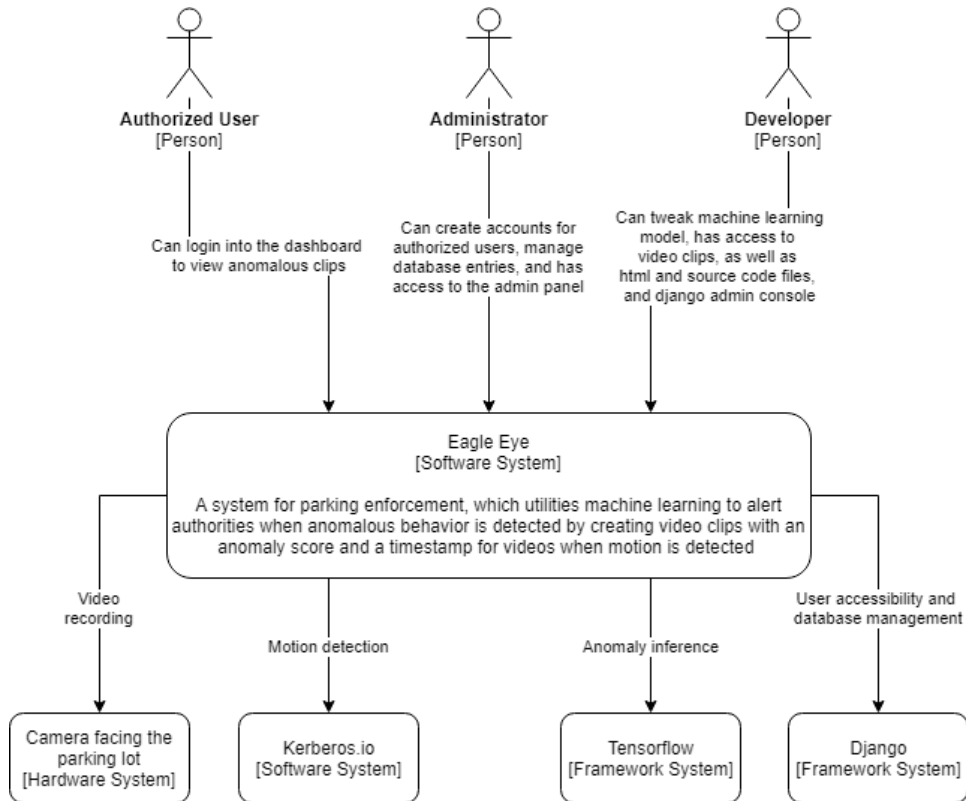


# Eagle Eye: Development Guide

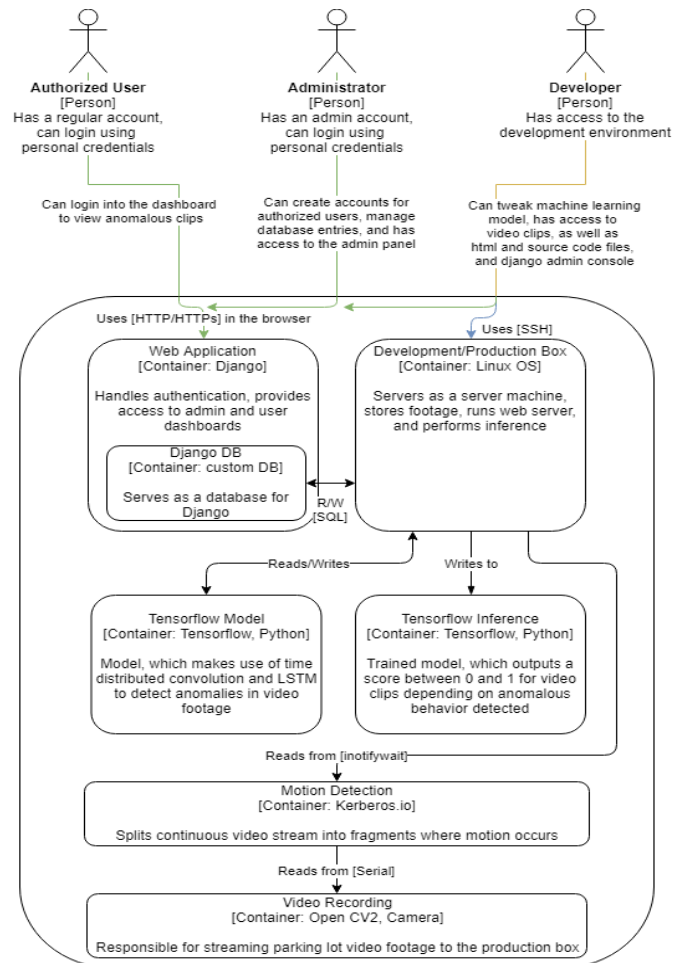
Team 10

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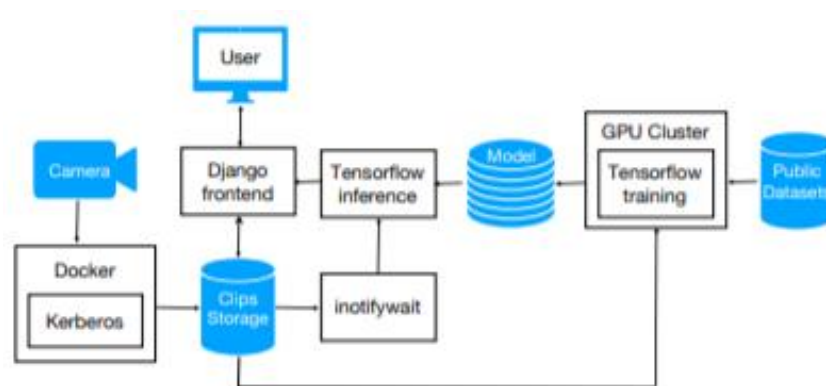
## C4 Product Context Diagram



## C4 Product Container Diagram



## Simplified Product Pipeline Flow



## Architecture Description

Architecture illustrated above utilizes a time distributed convolution and LSTM Tensorflow model trained using a public UCF “Real-World Anomaly Detection in Surveillance Videos” dataset to assign anomaly score to video clips. Said clips are produced by the Kerberos instance running in a Docker container, which saves fragments with motion present to disc, using continuous camera vide stream as input. Script “*inotifywait*” running in the background is listening for disc write events, which when triggered (meaning new motion clip was saved) will run inference using machine learning model described above and create a corresponding Django database entire with all relevant information. Finally, all vides saved in the database are accessible to the authorized users via Django frontend.

## Credentials

In order to gain access to the system you will need to create a Django super user account using “*python manage.py createsuperuser*” command. Next, you can add more authorized users via Django admin panel.