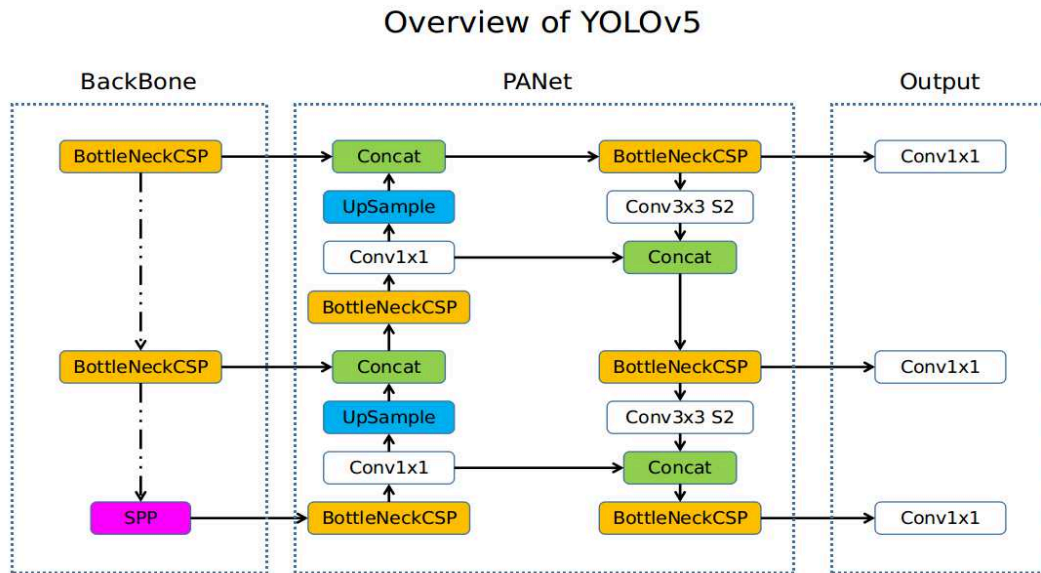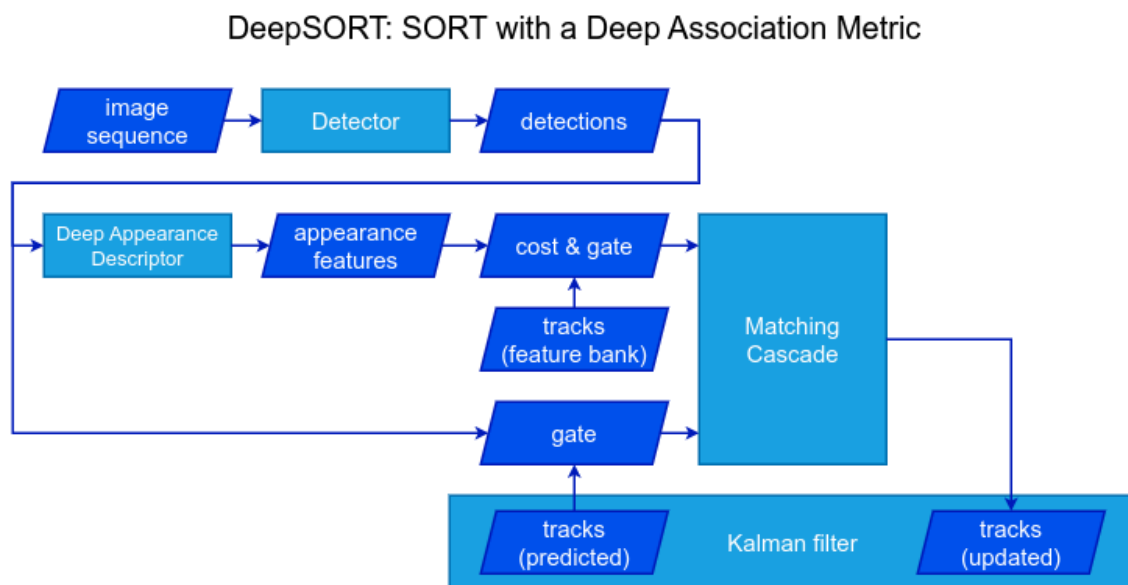Implementation Algorithms

These are the representations of the algorithms that have been implemented for this project:

YOLOv5 Algorithm for Overall Object Detection:

DeepSORT Algorithm for Danger Zone Detection:

Centroid and Euclidean Distance for Fire Hazard Detection:

$$d(p,q)^2 = (q_1 - p_1)^2 + (q_2 - p_2)^2$$