**Title**: Tracked Video Export with Ball, Player, and Court Annotations  
**Objective**: To create an annotated video showing ball, player, and court movements for performance analysis.

**1. Purpose**

* **Performance Evaluation**: Analyze player movements, ball trajectories, and court coverage for improved insights.
* **Data Visualization**: Enhance tracking data, making it easier to visualize and interpret.

**2. Tracked Elements**

* **Ball Tracking**: Displays the ball’s position and trajectory with a distinct visual marker.
* **Player Tracking**: Tracks players' positions and movements, using unique colors and bounding boxes.
* **Court (Planned)**: Court boundary tracking is planned but hasn't been implemented yet.

**3. Export Format and Settings**

* **Format**: MP4 (high compatibility and quality)
* **Resolution**: 1080p (Full HD)
* **Frame Rate**: 30 FPS for smooth playback

**4. Steps for Exporting the Tracked Video**

1. **Prepare Tracking Data**:  
   Import data for the ball and players. Verify the accuracy of the data.
2. **Overlay Annotations**:
   * **Ball**: Displayed as a small, visible circle.
   * **Player**: Use distinct colors and bounding boxes to track each player.
   * **Court Boundaries**: (Planned but not yet implemented). Intended to track the court's boundaries, providing spatial context for player and ball positions.
3. **Render and Export**:  
   Use **Roboflow** to render and export the video.  
   Preview the video to ensure clarity and accuracy of all annotations.  
   Save the final version in the designated folder.

**5. Quality Checklist**

* **Annotations**: Ensure visibility and clarity of ball and player overlays.
* **Tracking Accuracy**: Verify that tracking data aligns correctly with the actual movements.
* **Playback**: Confirm smooth video playback with no interruptions.