**Use case**

**Title:** Drive forward.

**Actor:** User of the robot.

**Second actor:** None.

**Scenario:** 1: User turns on the robot.

2: User starts the software.

3: User presses the forward button.

4: User is driving forward.

**Description:** An user wants to move the robot. So to make it move he runs the software on the PI. Gradually he will drive forward.

**Scope:** The school enviroment.

**Necessary:**

**Postcondition:**

**Technology list:** The robot.

**Title:** Drive forward.

**Actor:** User of the robot.

**Second actor:** None.

**Scenario:** 1: User turns on the robot.

2: User starts the software.

3: User presses the backward button.

4: User is driving backward.

**Description:** An user wants to move the robot. So to make it move he runs the software on the PI. Gradually he will drive backward.

**Scope:** The school enviroment.

**Necessary:**

**Postcondition:**

**Technology list:** The robot.

**Title:** Steer right/left.

**Actor:** User of the robot.

**Second actor:** None.

**Scenario:** 1: User turns on the robot.

2: User starts the software.

3: User presses the left/right button.

4: User is steering.

**Description:** An user wants to change the direction of the robot. So to make it steer he runs the software on the PI. Gradually he will change of direction.

**Scope:** The school enviroment.

**Necessary:**

**Postcondition:**

**Technology list:** The robot.

**Title:** Display sensors on the PI.

**Actor:** User of the robot.

**Second actor:**

**Scenario:** 1: User turns on the robot.

2: User starts the software.

3: The sensors display the output values on the PI

**Description:** The robot has sensors that give output with every action that is made. The output will be displayed on the Raspberry PI so that the user can see what the values are.

**Scope:** The school enviroment.

**Necessary:**

**Postcondition:**

**Technology list:** The robot.

**Title:** Display live streaming from the camera.

**Actor:** User of the robot.

**Second actor:**

**Scenario:** 1: User turns on the robot.

2: User starts the software.

3: The robot displays the streaming of the camera.

**Description:** For the user to know where the robot is driving there is a camera needed. The camera provides vision for the robot.

**Scope:** The school enviroment.

**Necessary:**

**Postcondition:**

**Technology list:** The robot, camera.

**Title:** Using an application to control the robot with.

**Actor:** User of the robot.

**Second actor:**

**Scenario:** 1: User turns the robot on.

2: User starts the software.

3: User starts the application.

4: User is controlling the robot through the application.

**Description:** An application is made to control the robot with from a distance.

**Scope:** The school enviroment.

**Necessary:**

**Postcondition:**

**Technology list:** Mobile phone.

**Title:** Recognizing faces on the camera.

**Actor:** The robot.

**Second actor:** User of the robot.

**Scenario:** 1: The user sees a object.

2: The robot is scanning the object through the camera.

3: The robot recognized a human face.

4: The user gets message.

**Description:** Camera recognition is used to see if there is a person in the robots area.

**Scope:** The school enviroment.

**Necessary:**

**Postcondition:**

**Technology list:** The robot.