Seminar 1: Requirement Gathering

Using the Gherkin language to derive requirements that support Behaviour Driven Development (BDD) by Rice et al. (2017). BDD focuses on eliciting requirements via communications with stakeholders (human or software) and attempts to discuss the requirements using natural language which supports developers to focus on the *what* and not the *how*.

BDD's motivation is to deliver business value primarily through user interfaces and can be described using the Gherkin language that uses the terms "Give", "When" and "Then".

Feature: Getting Familiar with a New Vehicle

Scenario: Buyer expresses interest to get into showroom vehicle

Given the user expressed interest in a vehicle

    And the vehicle is switched off and stationary

When the salesperson opens the car door

    Then the buyer shall climb into the driver's side

    And leave the driver's door open

Scenario: Buyer wants to adjust various internal controls

Given the user is sitting in the driver's seat

    And the vehicle is switched off

    And the vehicle is stationary

When the user presses the car horn

    Then the vehicle's horn shall sound

And no other vehicle functions will activate

When the user starts the ignition

Then the vehicle's dashboard shall light up

And the aircon, radio, brakes, power steering and wipers will be available

But the car will not drive forward

When the aircon is available

Then the user can switch it on and off

And there is a visual/audio indication of the function on the control's panel

When the user turns off the ignition

Then no vehicle functions will be available

But the horn function will be available

Scenario: Buyer wants to make a vehicle purchase

Given the buyer is comfortable with the vehicle's controls

And expresses interest to make a vehicle purchase

When the salesperson agrees a sales price

Then the buyer shall contact their bank to arrange payment

And the bank account manager shall make the funds available

But only if the buyer has sufficient funds

References

Rice, B., Jones, R. & Engel, J. (2017) Behaviour Driven Development. Available from https://behave.readthedocs.io/en/stable/philosophy.html#the-gherkin-language [Accessed 24 Mar. 2022]