**Use Case:** Rule Selection

**Id**: 2

**Level:** Medium

**Description**

The user can add up to 3 more rules for plant growth in addition to the default rule. The use also gets the option to view the created rules

**Actor(s)**

Simulation Analyst

Simulation Administrator

Simulation Supervisor

**Stakeholders and Interests**

Simulation Administrator

Simulation Supervisor

**Pre-Conditions**

* Within the maximum number of rules limit

**Trigger**

The operation begins when user clicks on “Create Rule” link

**Post Conditions**

Success end condition

User selects all minimum required options to create a rule and successfully adds it to the list of rules.

Failure end condition

* User does not select minimum required options to create a rule.
* Maximum number of rules allowed is attained

Minimal Guarantee

A rule will be successfully added if the required conditions are selected.

## Main Scenario

1. Click on the link “Create Rule”
2. Select an option for the following parameters:
   1. Child stems angle(s) for a stem at 90 degree
   2. Name of the rule
3. Select options for the following parameters:
   1. Child stems angle(s) for parent stem at 0, 45, 135, and 180 degrees.
   2. Maximum length the plant grows
   3. Maximum width the plant grows
   4. Check the box “Heavy Stems” if gravity needs to be considered
   5. Percentage decrease in stem length after each generation.
4. Click on “Add”

## Alternate Scenarios

1. Click on “View rules” to view the details of each rule created.