

# Simulation Configuration and UI modeling

This chapter discusses the components as follows

- [Project options](#)  
Setting options for a Simulation project, e.g., animation, simulation framework, and Simulation engines.
- [SimulationConfig stereotype](#)  
«SimulationConfig» and the SimulationConfig stereotypes as a model-based execution configuration through the «stereotype» *SimulationConfig*.
- [Simulation log](#)  
Recording all event occurrences during simulation of a Simulation Configuration.
- [Simulation time and simulation clock](#)  
Enabling Magic Model Analyst to obtain the amount of time spent on simulating a model from a simulation clock.
- [Automatic start of active objects](#)  
An active object whose Classifier is an active Class.
- [UI modeling diagram simulation](#)  
UI components supporting the UI modeling diagram simulation.
- [ImageSwitcher and ActiveImage](#)  
ImageSwitcher as a powerful animation tool and «ActiveImage» attributes.
- [Time Series Chart](#)  
Displaying plots of runtime values with respect to simulation time and its properties.
- [Timeline chart](#)  
Allowing you to see the active States of an object or a property during simulation or the Activities simulated in an object.
- [Histogram](#)  
Displaying the density of the underlying distribution of data and estimating the probability density function of underlying variables.
- [Nested UI Configuration stereotype](#)  
Creating complex UI mockup consisting of multiple UI Configs.
- [Reusable UI Mockup](#)  
Improving the flexibility in user interface modeling from typing the property using the UI component.
- [CSV export](#)  
Exporting simulation results to a CSV file.
- [Nested property selection for configurations](#)  
Supporting nested property selection for configurations, e.g., Time series charts, Timelines, Sequence diagram generator, and CSV export.
- [Attached files supported](#)  
Accessing files as «AttachedFile» by using only file names without paths in case of references to files by names.
- [Web Server for Magic Model Analyst](#)  
Exporting, opening and using UI mockups, and controlling a model simulation on a web browser on any remote devices.