

Tooling: Improved Management for Monitor Repositories and Measuring Points in Palladio

Entwicklungsprojekt SoSe 2018
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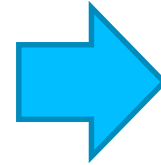
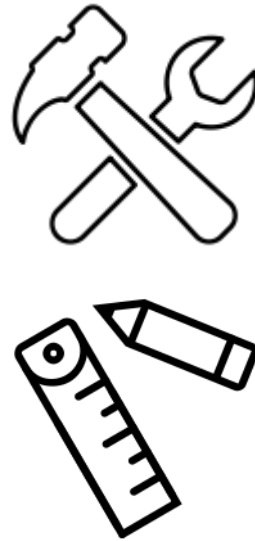


Develop a Cloud Application

A Pet Image Homepage Example



Liza



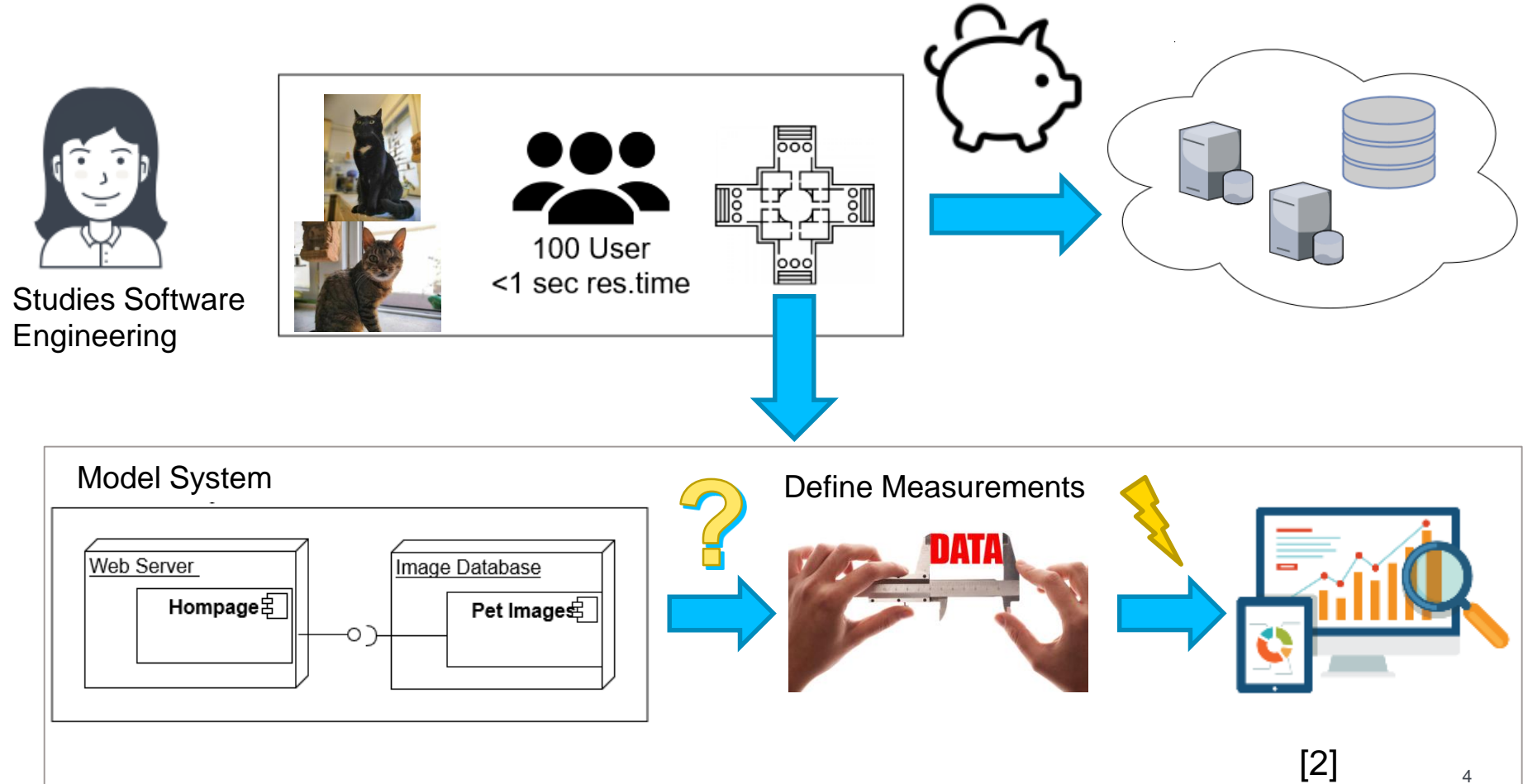
Tooling Support problem

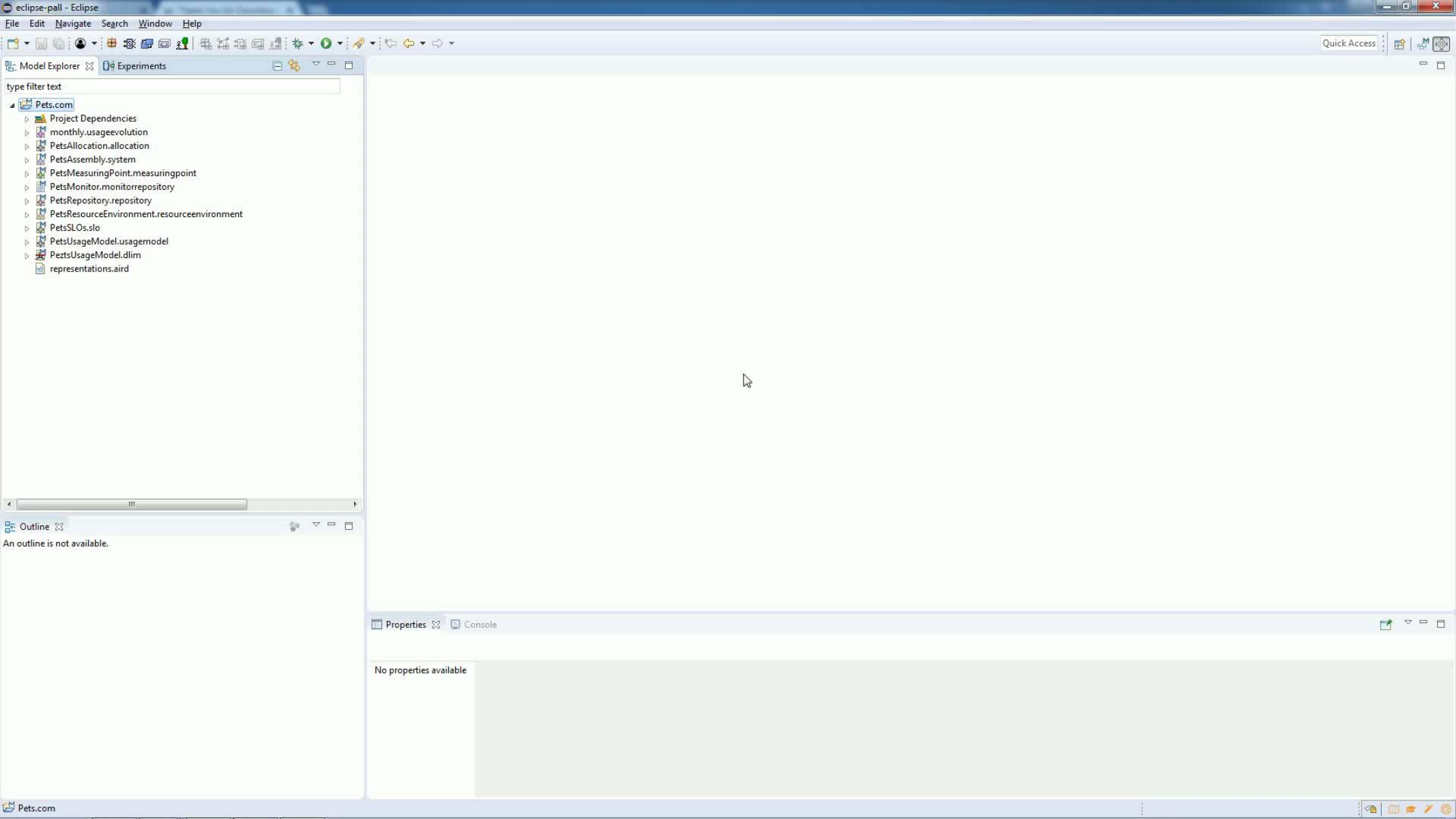
Unintuitive GUIs



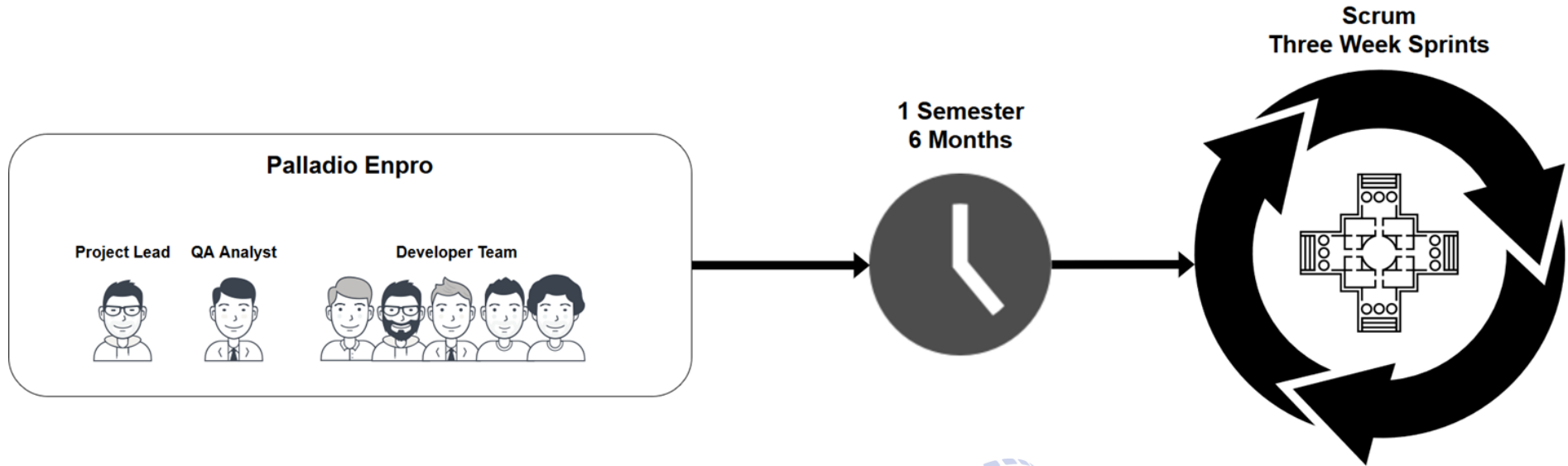

Palladio: A Software Architecture Simulation Approach

Pet Image Homepage Simulation Steps





Team & Procedure



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Dashboard

The screenshot shows the 'Measurements Dashboard' interface. At the top, there is a title bar with a close button. Below it, two dropdown menus are visible: 'Project' (1) set to 'P/Pets.com' and 'MonitorRepository' (2) set to '1. PetsMonitore'. A 'Filter' input field (3) is located below these. To the right of the filter are two checkboxes: 'Active Monitors' (checked) and 'Inactive Monitors' (checked). The main content area is divided into two sections. The top section (4) is titled 'Monitor Repository PetsMonitore' and contains two items: 'ImageServerCPU [ResourceContainerMeasuringPoint]' with a red 'X' icon and 'Simple Usage Scenariodsdf [AssemblyOperationMeasuringPoint]' with a green checkmark icon. The bottom section (5) is titled 'Measuring Point Repository _qMU5gG8pEeiSd4fITWARWQas' and contains one item: 'Usage Scenario Measuring Point Usage Scenario: SimpleUsageScenario'. On the right side of the dashboard, there is a vertical toolbar with four buttons: 'Add new Measurement' (6), 'Delete...' (7), 'Edit...' (8), and 'Create Standard Set'.

Live Demo

The screenshot displays the 'Measurements Dashboard' application. At the top, there are two dropdown menus: 'Project' set to 'P/Pets.com' and 'MonitorRepository' set to '1. Pets.Monitor'. Below these is a 'Filter' input field and two checkboxes: 'Active Monitors' (checked) and 'Inactive Monitors' (checked). The main content area is divided into two sections. The top section, 'Monitor Repository PetsMonitor', contains a tree view with the following items: 'ActiveResourceMonitor [ActiveResourceMeasuringPoint]', 'ActiveResourceMonitor [ActiveResourceMeasuringPoint]', 'UsageScenarioMonitor [UsageScenarioMeasuringPoint]', 'MyNewMonitor [ActiveResourceMeasuringPoint]', 'MeasurementSpecification: Utilization of Active Resource' (with sub-items 'TimeDriven' and 'VariableSizeAggregation'), and 'MeasurementSpecification: Resource Demand' (with sub-item 'FeedThrough'). The bottom section, 'Measuring Point Repository _qMU5gG8pEeiSd4fITWARQ', contains a list of items: 'Resource Environment Measuring Point Resource Environment: New ResourceEnvironment', 'Assembly Operation Measuring Point Operation: Assembly_Hompage.Hompage.IImageServer.OperationRequiredRole1.providePictures', 'Resource Container Measuring Point Resource Container WebServer [_MkC8IG8gEeiSd4fITWARQ]', 'Active Resource Measuring Point HDD [0] in WebServer', and 'Active Resource Measuring Point HDD [0] in ImageServer'. To the right of the tree view is a vertical toolbar with buttons: 'Add new Measurement', 'Delete...', 'Edit...', and 'Create Standard Set'. Below the dashboard is a 'Simulation Dock Status' window titled 'Measurement Properties'. It shows details for 'Active Resource Measuring Point CPU [0] in WebServer' with the following fields: 'Measuring Point Repository' (dropdown), 'String Representation' (CPU [0] in WebServer), 'Resource URI Representation' (platform:/resource/Pets.com/PetsResourceEnvironment.resourceenvironment#_R3hn8G8gEeiSd4fITWARQ), 'Active Resource' (dropdown), and 'Replica ID' (0).

Extension Point

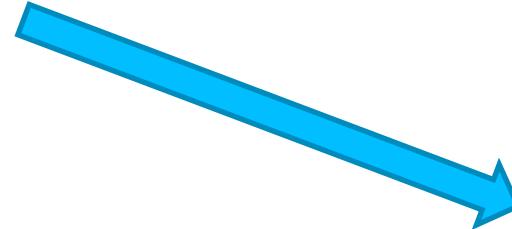
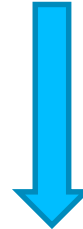
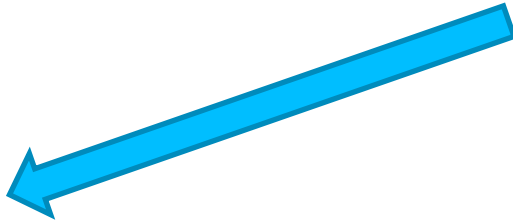
Measuring Point



Metric



Define working combinations



Fill out the Excel sheet



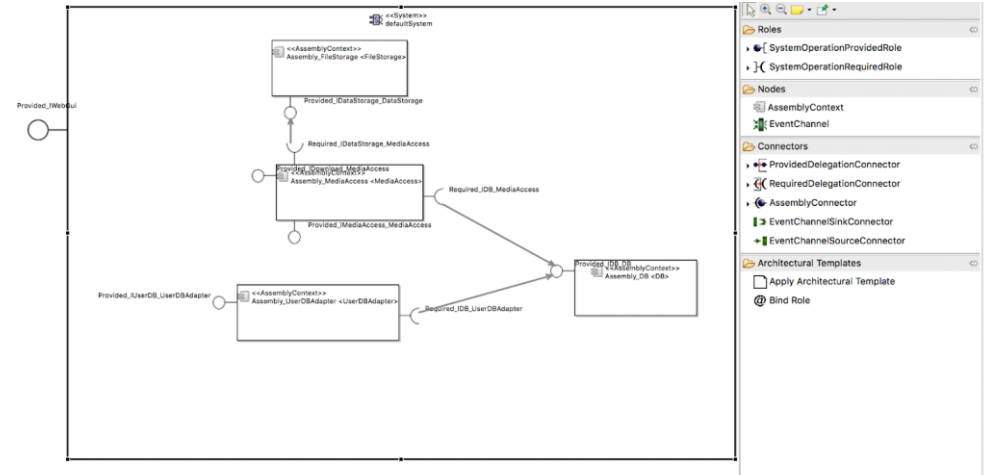
Talk to us



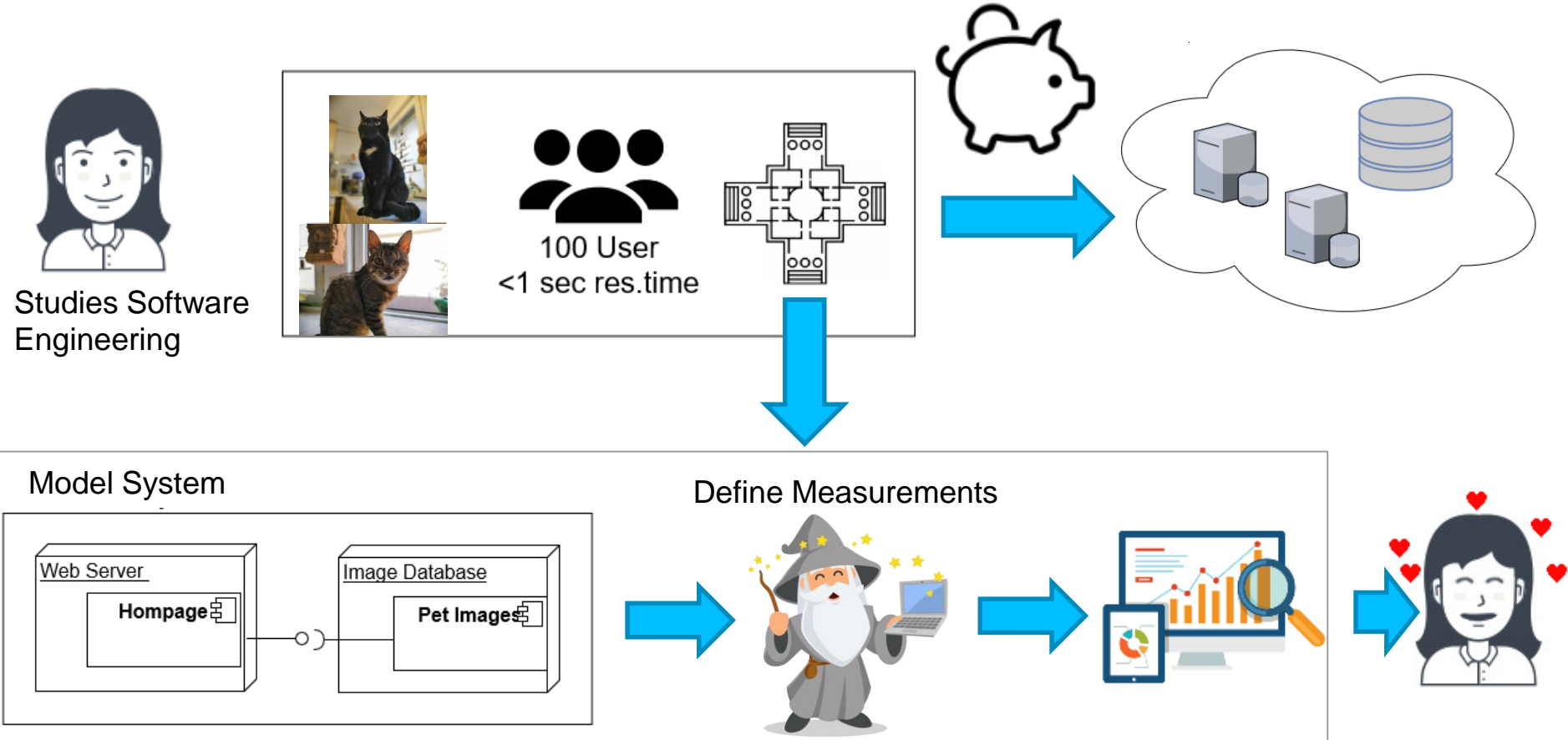
Extend our plugin



Wiki and Future Work



Recap



References

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