Software Architecture Document

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Version 1.0

Revision History

Date	Version	Description	Author
1/12/16	1.0	First version	Leon Gottschick
2/12/16	1.1	Added MVC UML	Leon Gottschick

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Introduction

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Purpose

This document provides a comprehensive architectural overview of the system, using a number of different architectural views to depict different aspects of the system. It is intended to capture and convey the significant architectural decisions which have been made on the system.

Scope

This document describes the architecture of the DPS Difference use case

Definitions, Acronyms, and Abbreviations

n/a

References

All relevant documents can be found on our dev site.

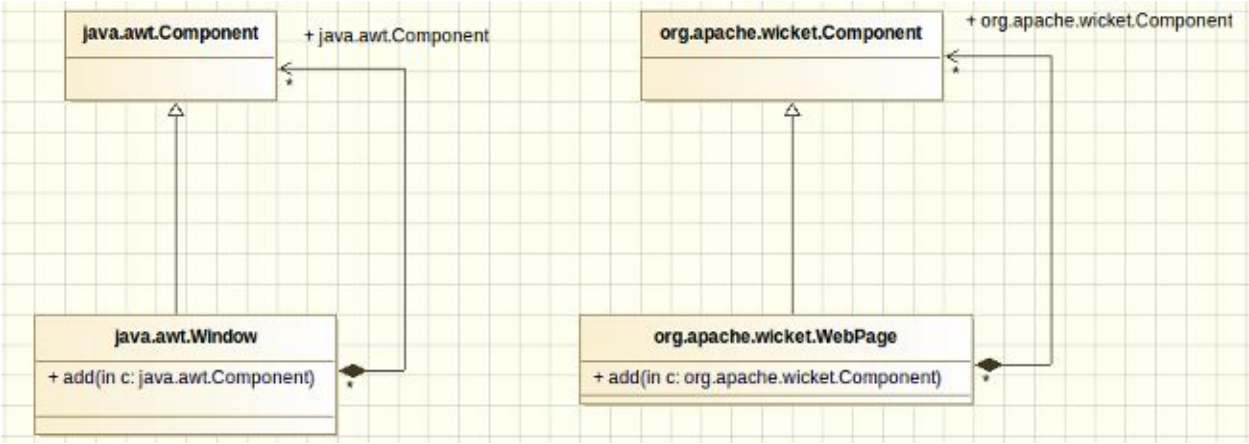
Overview

To be done

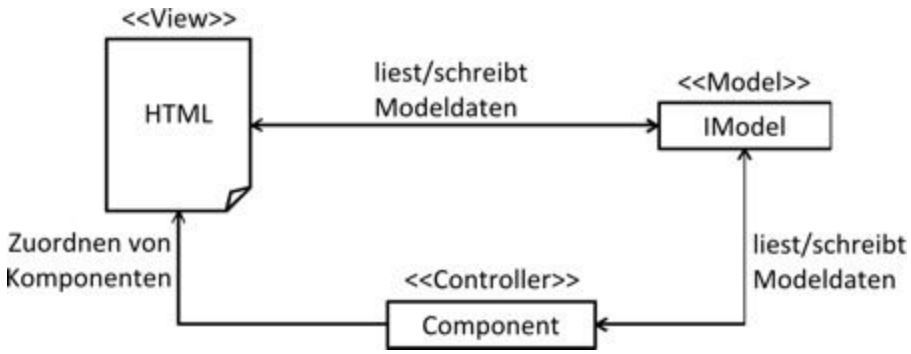
Architectural Representation

Apache Wicket is a component-based web-framework which separates the logic from the view. Every component is able to store its data in a data model.

It resembles SWING/AWT.



MVC represented in Wicket:



Architectural Goals and Constraints

Wicket is a powerful framework that often is employed in large software projects.

Wicket is very powerful when it comes to meet the complex requirements of a Web application. Business logic can be fully programmed in Java, without worrying about the special features of a Web application. The status of processing within a session is run server-side by wicket, because of that the developer of a Wicket-application must specifically solve the resource problem of

many concurrent users. In contrast to this many JavaScript-based Web frameworks keep the state on the client side and only if necessary reload data from the server.

Because JavaScript or even CSS frameworks can easily be incorporated in wicket, wicket represents a flexible Web development platform.

Wicket has a steep learning curve, which leads to a difficult entry.

Use-Case View

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Look at our SRS for further information.

Overview

Look at our Use Case Specifications for further information.

Logical View

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To be done

Process View

- - - - ✗

n/a

Deployment View

- - - - X

Implementation View

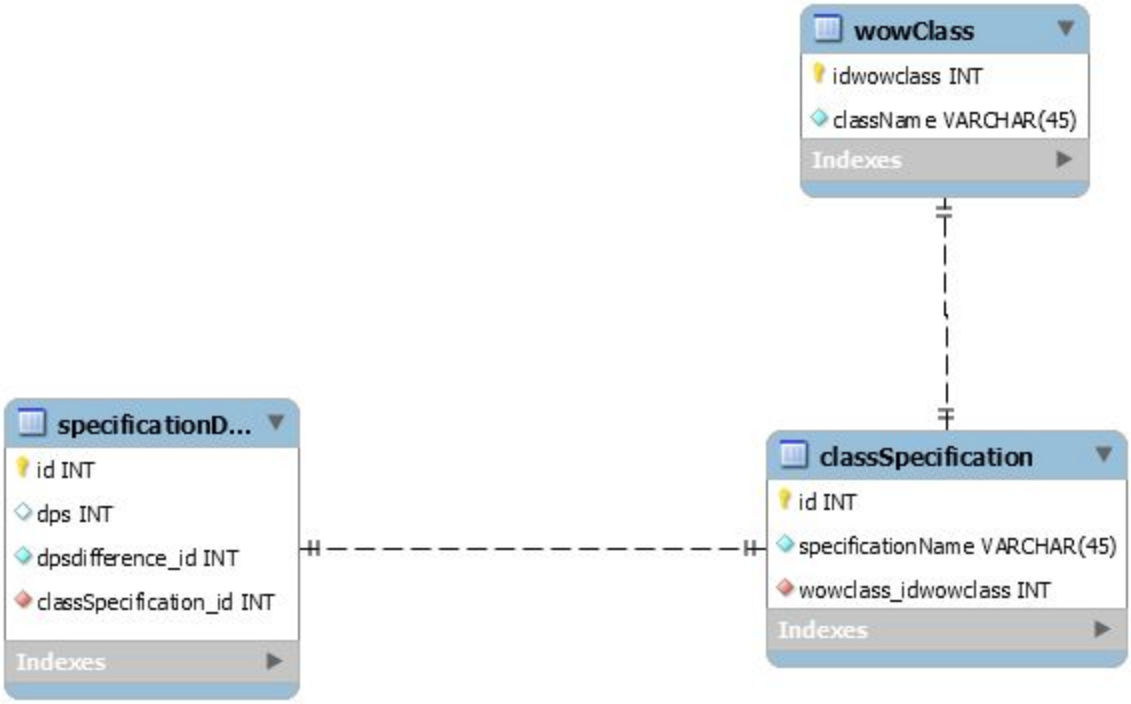
- - - - X

n/a

Data View

- - - - X

DPS Difference schema:



Size and Performance

- - - - X

n/a

Quality

- - - - X

n/a