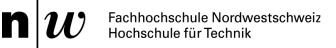
Software Architecture

Exercise – 4+1 View Model (Stack)

BSc





Exercise OpeningOverview

In this exercise you apply Kruchten's 4 + 1 view model to model and then also code an abstract data type Stack in Java.

n $|oldsymbol{u}|$

Exercise Agenda



■ 4+1 View Model of a Stack

4+1 View Model Stack Scenario

You are asked to design a data type Stack by transforming the scenario I provide you below into a logical view of Kruchten's view model.

Next, you will develop a suitable development view. Once you are satisfied with your design, you will also code your Stack design in Java.

Please use this stack scenario as input:

- 1. You add the element "stack" to an empty stack (push).
- 2. You add the element "first" to the stack (push).
- 3. You add the element "My" to the stack (push).
- 4. As long as the stack is not empty (isEmpty) ...
 - 1. read the topmost stack element (top)
 - 2. remove the topmost stack element (pop)



4+1 View ModelStack – Logical View



How do you transfer the stack scenario into the Logical View of Kruchten's View Model?

A STANDARD OF THE STANDARD OF

4+1 View ModelView Model Applied

How do you represent the Stack in the development view?

Salar de la constantina della constantina della

4+1 View ModelView Model Applied

Finally, how do you code your Stack model in Java?

Questions

