PRESENTATION-ABSTRACTION-CONTROL

Gruppen H und I

Software Engineering WS 17/18

December 4, 2017

PROBLEM

Agent close to database

Agent for communication between other software systems

Agent for error handlings

Agent for error handlings

There are three main Problems based on that:

- Agents often maintain their own state and data
- Interactive agents provide their own user interface
- Systems evolve over time

Agent Code

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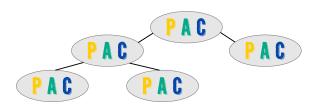
- System scolve over times

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PROBLEM

Ann-Kathrin

SOLUTION



- Tree-like hierarchy of PAC agents
- PAC agents consist of:
 - Presentation component (visible behavior)
 - Abstraction component (data model with its functional operations)
 - Control component (connects data model and view; provides communication between other agents)



SOLUTION



- PAC agents consist of:
- Presentation component (visible behavior)
 Abstraction component (data model with its functional operations)
 - Control component (connects data model and view; provides communication between other agents)

Lucas

STRUCTURE

Nicole, Jaqueline

TOP-LEVEL AGENT

Nicole, Jaqueline

BOTTOM-LEVEL AGENT

- Presentation component
 - specific view on the object
 - provides access to functions
 - · maintains information
- Abstraction component
 - maintains agent-specific data
- Control component
 - manages relation between abstraction and presentation component
 - communication to intermediate agents



BOTTOM-LEVEL AGENT

· Presentation component · specific view on the object · provides access to functions maintains information · Abstraction component

· maintains agent-specific data · Control component

· manages relation between abstraction and presentation component · communication to intermediate agents

Vera

Intermediate-Level Agent

Responsibility:

- coordinate lower-level PAC agents
- Composes lower-level PAC agents to a single unit of higher abstractation

PAC

-Structure

☐ Intermediate-Level Agent☐ Intermediate-Level Agent☐

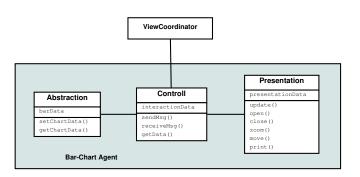
Responsibility:

coordinate lower-level PAC agents

Composes lower-level PAC agents to a single unit of higher abstractation

Anna Kann raus bei Platzmangel

INTERMEDIATE-LEVEL AGENT



- abstract component manages the data
- presentation component implements user interface
- control component communicates with top-level and bottom-level agents



INTERMEDIATE-LEVEL AGI	ENT
Management Control Con	elalian.
abstract component manages the data presentation component implements user into control component communicates with top-le	

Anna gekürzt, lange Version:

- abstract component manages the data → responsible for all currently active views
- ullet presentation component implements user interface o creates a tool to view the election data for example in bar or pie charts
- \bullet control component communicates with top-level and bottom-level agents \to control all subordinate agents

DYNAMICS

Bild 1

DYNAMICS

Nicole

PAC

Dynamics

DYNAMICS

Bild 2

Nicole

PAC

Dynamics

2017-12-04

KNOWN ISSUES

└─Known Issues

-Known Uses

Fabian

PAC

QUELLEN

QUELLEN

Known Uses

Rebecca

PAC