Presentation-Abstraction-Control

Gruppen H und I

Software Engineering WS 17/18

December 3, 2017

PROBLEM
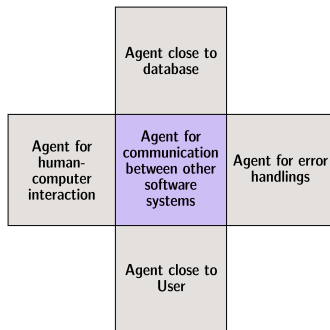
	Agent close to database	
Agent for human-computer interaction	Agent for communication between other software systems	Agent for error handlings
	Agent close to User	

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

Ann-Kathrin

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based on that:

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

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)

Lucas

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Structure

PAC

2017-12-03

└─Structure

└─Structure

Nicole, Jaqueline

TOP-LEVEL AGENT

PAC
└─Structure
   └─Top-Level Agent
      └─Top-Level Agent

2017-12-03

Nicole, Jaqueline

BOTTOM-LEVEL AGENT

PAC
└─Structure
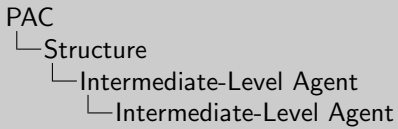 └─Bottom-Level Agent
    └─Bottom-Level Agent

2017-12-03

Vera

INTERMEDIATE-LEVEL AGENT

Responsibility:

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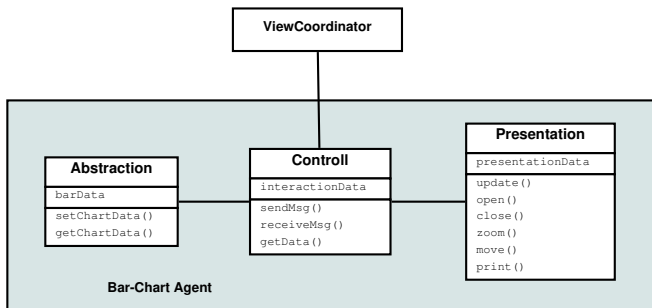
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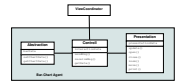
Anna

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

2017-12-03

INTERMEDIATE-LEVEL AGENT

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

Anna
gekürzt, lange Version:

- abstract component manages the data → responsible for all currently active views

- presentation component implements user interface → creates a tool to view the election data for example in bar or pie charts

- control component communicates with top-level and bottom-level agents → control all subordinate agents

DYNAMICS

Bild 1

PAC
└─Dynamics

└─Dynamics

2017-12-03

Nicole

Bild 1

DYNAMICS

Bild 2

PAC
└─Dynamics

└─Dynamics

2017-12-03

Nicole

Bild 2

KNOWN ISSUES

PAC
└─Known Uses

    └─Known Issues

2017-12-03

Fabian

QUELLEN

PAC
└─Known Uses

  └─Quellen

Rebecca