MagicUWE – A CASE Tool

for Modeling Web Applications

Marianne Busch\textsuperscript{1} and Nora Koch\textsuperscript{1,2}
\textsuperscript{1}LMU München, Germany
\textsuperscript{2}Cirquent GmbH, Germany

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UWE in a nutshell

- UML-based Web Engineering (UWE) approach
  - based on UML models
  - separation of concerns (content, navigation, presentation, process)
- UML extension (profile) for web specific notation
- model-driven development
  - model2model transformations
  - model2code transformations
Aim of MagicUWE

- We can use any UML CASE tools to design web applications with UWE
  - importing the UWE profile
  - defining the stereotypes and tagged values

- We can use MagicUWE
  - making the design of web applications a really easy task
  - to work with an intuitive user interface
  - to receive advices helping us to build valid models (needed for the generation of web applications)
  - in replacement of ArgoUWE

- Result models can be used for generation of web applications (UWE4JSF)
MagicUWE Plugin supports

- UWE profile
  - UWE stereotyped elements in toolbar
  - stereotype icons
- UWE diagrams and package structure
  - creation of new content, navigation, presentation, process models
- Transformation between UWE diagrams
  - content to navigation
  - navigation to presentation
  - navigation to process structure and process flow
- Set tagged values using the context menu
  - isHome, isLandmark
- Insert of access primitives
  - e.g. add stereotypes «index», «query», ... to classes
- Hints for the design of UWE models
  - use of UWE element in an incorrect diagram (e.g. presentation class in a navigation diagram)
Current and future versions of MagicUWE

- **Current version**
  - implemented as a MagicDraw plugin
    - uses the open API from MagicDraw
  - Qualities (any CASE tool should have)
    - easy installation (installer is provided)
    - easily configurable
      - hint messages can be changed or even disabled
      - standard identifications for UWE packages can be changed
    - adaptable
      - display of class or property in toolbar
  - extensible
    - modular implementation
    - well documented code
    - build script to create and launch new versions

- **Future versions**
  - support of new UWE features (e.g. RIAs, patterns)
  - support of preparation of models for automatic generation (transparent for the designer)
Thanks for your attention!

See you at demo session I

today  16:00 – 18:00

tomorrow  9:00 – 11:00

Nora Koch

nora.koch@pst.ifi.lmu.de

further information

uwe.pst.ifi.lmu.de