A Method for Analyzing and Designing GUI Plug-ins

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***Abstract*—Today, GUI plug-ins development is made in an ad-hoc way and typically starts directly with the implementation phase. Without a prior analysis and design, the final plug-in is unreliable, difficult to maintain and extend with new functionalities. The current paper addresses these problems by describing a systematic method for analyzing and designing GUI plug-in systems. The method is based on the Business Object Notation approach and consists of a number of well-defined steps. Furthermore, the method is illustrated on a study case which develops an Eclipse environment for the RAISE tool set.**

I. Introduction

What is the paper about.

A. Background

What problems do we run into when starting building an Eclipse plug-in.

B. Related work

What solutions have other papers brought

II. Analysis and design method

The steps used to design and analyze the plug-in.

A. User interface

UI mock-ups.

Requirements identification. Captured in BON *scenario_chart*.

B. Events

Incoming events representing user actions and *outgoing* events meant to inform the user.

C. Components

Major components captured in BON *static_diagram*s using *cluster_chart* and *class*.

D. Components communication

Component interfaces added to the interface diagram using *feature*, *require* and *ensure*. This will later result in plug-in extensions and extension points.

Update scenarios with events.

E. Code generation

Beetlz generates the Java code from BON specification.

III. Conclusion

In conclusion

Acknowledgment

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References

[1] H. Kopka and P. W. Daly, *A Guide to LaTeX*, 3rd ed. Harlow, England: Addison-Wesley, 1999.