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Extending the software development process with Design Components

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Abstract. In the software development process, the use of design patterns can construct the system with reusability and stability. But although it has many advantages, the design patterns mainly are used by a view of reconstruction and non-formal. Therefore, it is difficult to composite of design patterns in the development process efficiently. So, we propose the efficient software development process with design pattern components. For this, we define the formal structure of the design pattern component, and present the development process based on design components. The use of design components in development process can be increase a reusability of design pattern's information and construct more reliable and stable system. Moreover it can be concentrated upon the problem of domain without to consider design pattern itself.

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