

Risk reduction through prototyping

Chapter 15

Prototype can be used to:

- Clarify, complete, and validate requirements
- Explore design alternatives
- Create a subset that will grow into the ultimate product



Throw-away versus Evolutionary Prototypes

TABLE 15-1 Typical applications of software prototypes

	Throwaway	Evolutionary
Mock-up	<ul style="list-style-type: none">■ Clarify and refine user and functional requirements.■ Identify missing functionality.■ Explore user interface approaches.	<ul style="list-style-type: none">■ Implement core user requirements.■ Implement additional user requirements based on priority.■ Implement and refine websites.■ Adapt system to rapidly changing business needs.
Proof of concept	<ul style="list-style-type: none">■ Demonstrate technical feasibility.■ Evaluate performance.■ Acquire knowledge to improve estimates for construction.	<ul style="list-style-type: none">■ Implement and grow core multi-tier functionality and communication layers.■ Implement and optimize core algorithms.■ Test and tune performance.



Throw-away Prototypes

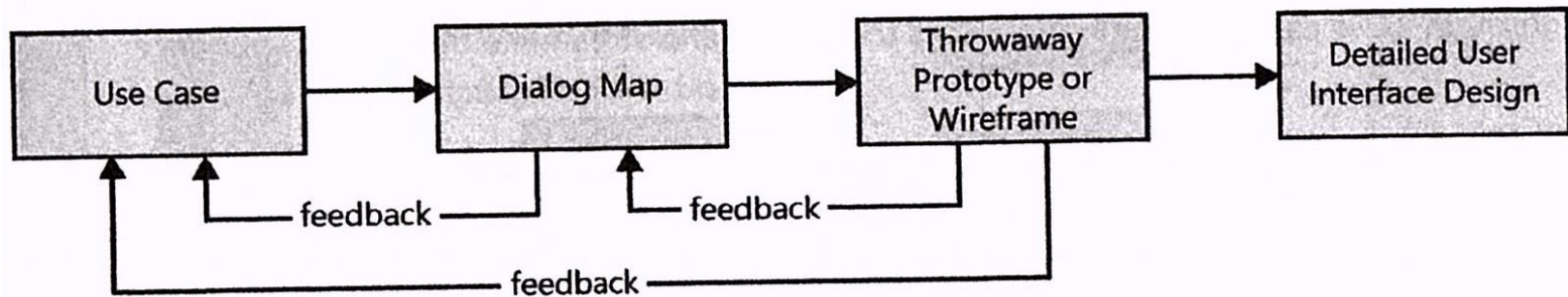


FIGURE 15-2 Activity sequence from use cases to user interface design using a throwaway prototype.

