Software Engineering

Week-6-Lesson-1
Prototyping-GUI

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List of Topics

- What is Software Prototyping?
- Benefits of Software Prototyping
- Types of Prototyping
- Creating Paper Prototypes
- Creating High-Fidelity Prototype
Software Prototyping

- A Software prototype is a **draft version** of software program that allows you to explore your ideas and show the intention behind a feature or the overall design concept to users before investing time and money into development.
- Prototyping can be considered as a risk reduction activity.
Prototyping Benefits

- Misunderstandings between software users and developers are exposed
- Missing services may be detected and confusing services may be identified
- Sometimes it helps to demonstrate the concept to prospective investors to get funding for project.
- It reduces risk of failure, as potential risks can be identified early.
Types of Prototyping

- Low-Fidelity Prototyping
  - Paper prototyping
  - Mockups

- High-Fidelity Prototyping
  - Macromedia Director or Flash, Smalltalk, JavaScript, Microsoft Tools, HTML
Low-Fidelity Prototyping
Tools for Paper Prototyping

- Pen
- Pencil
- Color Pencil
- Rubber
- Paper
- Eraser
- Scale
- Scissor
Low-Fidelity Prototyping

- Does not look very much like the final product. Material, behavior etc.
- Material such as paper & cardboard rather than electronic screens, metal and detailed code.
- Simple, cheap & quick to produce and redesign.
- Early stage of development – prototyping for the conceptual design.
Creating Low-Fidelity Prototyping
Creating Low-Fidelity Prototyping
High-Fidelity Prototyping

- Looks very much like the final product.
- If the prototype is for software system, a software tool, such as Macromedia Director or Flash, Visual Basic or Smalltalk, might be needed.
- Software prototype tools are also often qualified development environments.
- More time-consuming to produce than low-fidelity prototyping.
High-Fidelity Prototyping
Overview on Tools

For Example
- Microsoft Visio, PowerPoint
- MS Expression Blend
- Axure Pro
- iRise Studioj
Creating High-Fidelity Prototyping (using Powerpoint)
Creating High-Fidelity Prototyping (Using HTML, Java Script, CSS)
Advantages of Low-Fidelity Prototyping

Low-fidelity representations, such as sketches, differ from the final product in interaction design, visual appearance, and/or level of details. The method is quick & cheap which encourage iterative design idea tryouts between/during usability tests.

Quick Low-fidelity tests allows designers and users to focus on high-level interaction design and information architecture, rather than on details or visual style.
Advantages of High-Fidelity Prototyping

- High-fidelity prototypes offer more realistic interactions than low-fidelity.
- Better at conveying the range of design possibilities.
- User-driven.
Home Page..
Categories...
Sample..
Selective product

 Hazely Queen midnight Blue and white Georgette saree for women.

Key Features:
- Product Type: saree
- Color: midnight Blue and white
- Main Material: Georgette
- Gender: women

$1,600.00
Old $3,350 -52%

Buy Now

Save for later
Login..

Returning Customers
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Password*

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LOGIN

* Required Fields.

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