

Announcement – About the assignments

- You have to use the pre-defined groups to deliver in the assignments
 - If not your grade will be lower
- It is so much work to find your assignments
 - You risk that you will not get a grade for the project
- Please check if all your grades are there
 - if not conntact: hildur09@ru.is



Comments to grading

- Some of you have commented on your grading
 - The TAs are not notified
 - To send comments you have to send an email to the person that graded your assignment
 - Berglind Kara Guðmundsdóttir berglindg14@ru.is
 - Birna Vala Eyjólfsdóttir birna14@ru.is
 - Bryndís Charlotte Sturludóttir <u>bryndis14@ru.is</u>
 - Elmar Þór Aðalsteinsson elmara16@ru.is
 - Hildur Björg Gunnarsdóttir hildurg09@ru.is
 - Hrefna Namfa Finnsdóttir < hrefna17@ru.is



www.ru.is

Group Assignment 2

- Deadline 21. september 23:59
 - Check if you see this deadline
- Read the instructions carefully
- Find good design ideas
- Make a low-fidelity prototype
 - Paper or wireframe
- Conduct prototype interviews
- Redesign the low-fidelity prototype

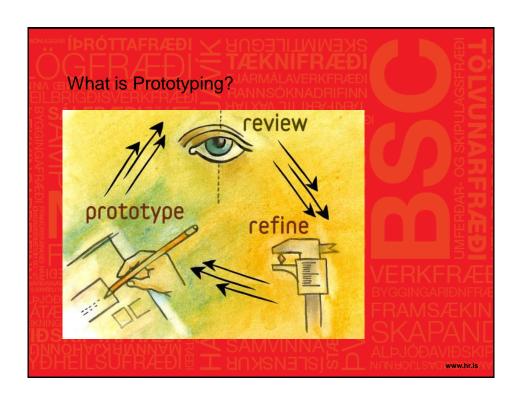


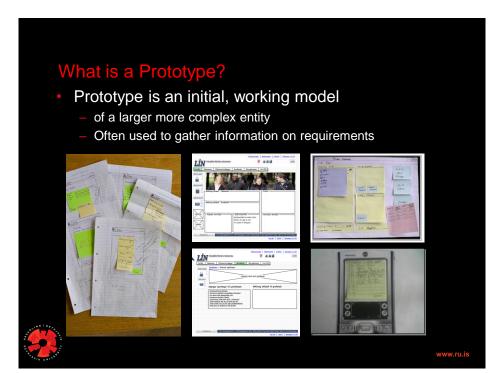
Content

- What is Prototyping?
- The three stages of prototyping
- How to make paper prototypes and wireframes
- More on wireframes
- Describing Low-fi prototypes
- Reading
 - Interaction Design: 12.1, 12.2 and 12.3



/ww.ru.is





What is a prototype?

- One manifestation of a design that allows stakeholders to interact with it
- In other design fields, a prototype is a small-scale model:
 - A miniature car
 - A miniature building or town



Source: <u>PalmPilot wooden model</u> © Mark Richards

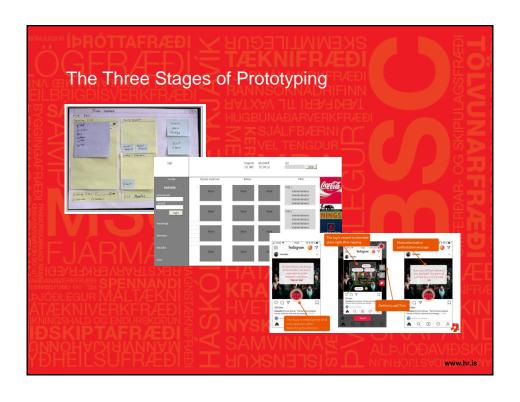
Why prototype?

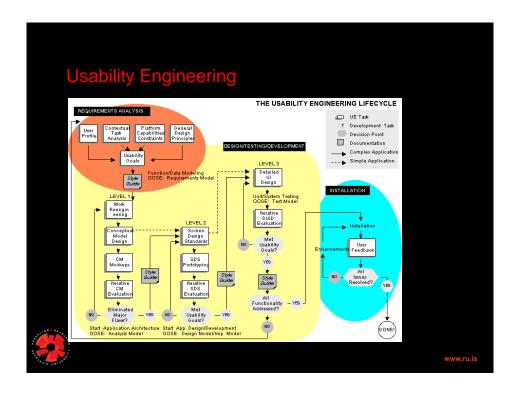
- Evaluation and feedback
 - are central to interaction design
- · Stakeholders can see, hold, interact with a prototype
 - more easily than a document or a drawing
- Team members can communicate effectively
- You can test out ideas for yourself
- It encourages reflection
 - very important aspect of design
- Prototypes answer questions
 - and support designers in choosing between alternatives



www.ru.i

Easy to Collaborate Through Prototypes **WW.ru.ls**





The three stages of prototyping

Low- fidelity prototyping

Paper prototypes and wireframe designs

2. Screen design

- Has more details, color, fonts, texts, ...
- Not as detailed as the final product

3. Detailed design

- Looks like the final product
- Does not include all the functionality



www.ru.is

1. Stage – Low fidelity design

Paper prototype

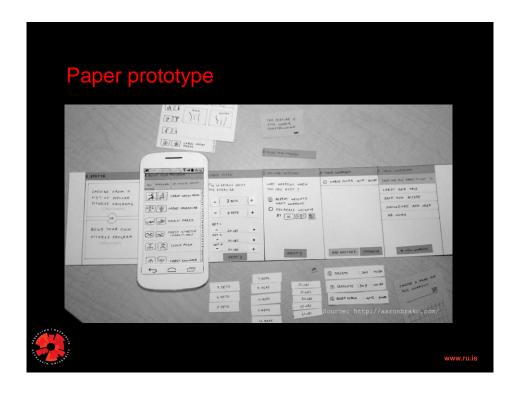


Wireframes





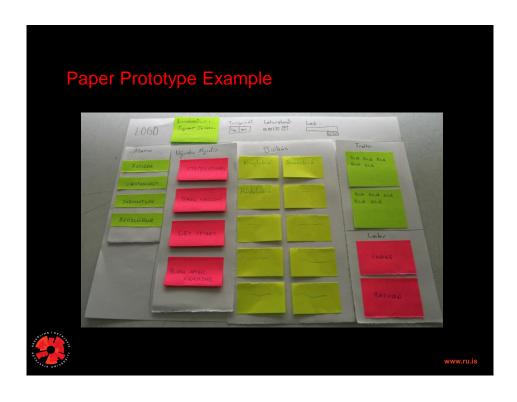
www.hr.is

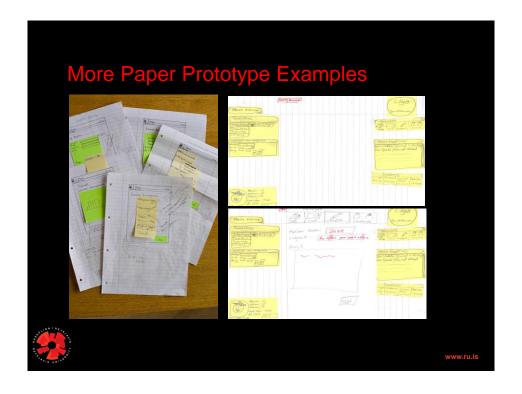


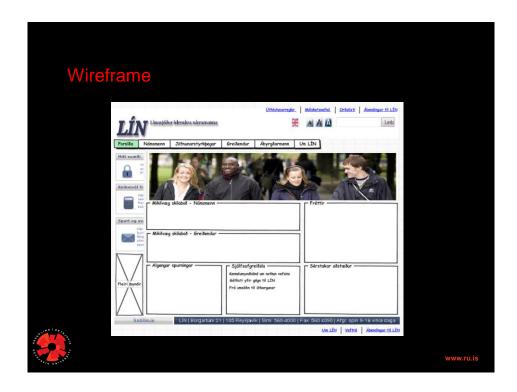
Paper prototype - definition

- A paper prototype is a paper representation of your product
- Constructed out of Post-it notes, various other pieces of paper or any other materials you need to use
- It allows you to evaluate your design with the user interactively
- Everything in the prototype needs to be movable and changeable because you will be adding user content, changing the interface structure and otherwise modifying it in response to the customer trying to use it









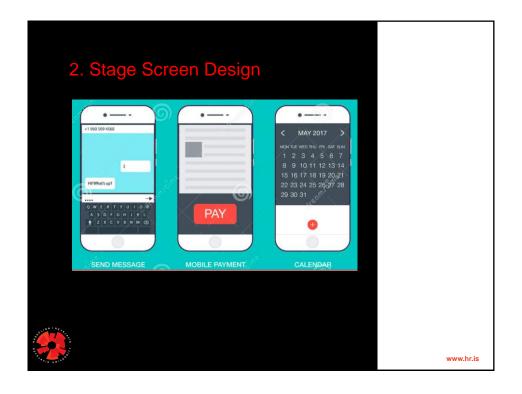
Wireframe Definition

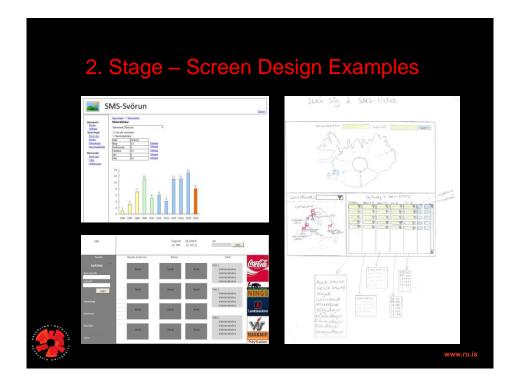
- Wireframe
 - is a visual guide that represents the skeletal framework of a website
 - are created for the purpose of arranging elements to best accomplish a particular purpose (user goal).
 - depicts the page layout or arrangement of the website's content, including interface elements and navigational systems, and how they work together
- Wireframes do usually not include:
 - typographic style, color, or graphics, since the main focus lies in functionality, behavior, and priority of content.



More: https://en.wikipedia.org/wiki/Website_wireframe



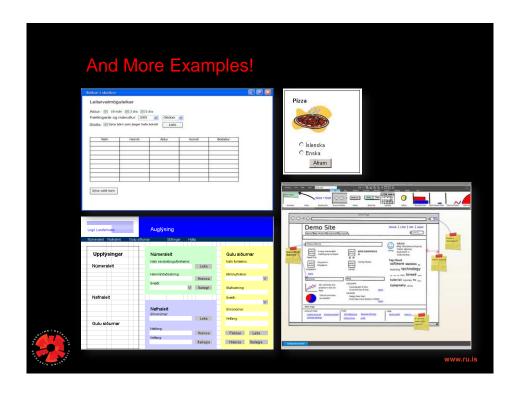




2. Stage – Screen Design Definition

- Visual and aesthetic design of the user interface often shown on a computer screen or in other equipment
- Colors, shapes, sizes and style is used to support and enhance the functionality and the usage of the interface
- Often you can push buttons and go from one window/page to another
- It in NOT as detailed as Detailed design
 - It is in the middle of low-fidelity and detailed design





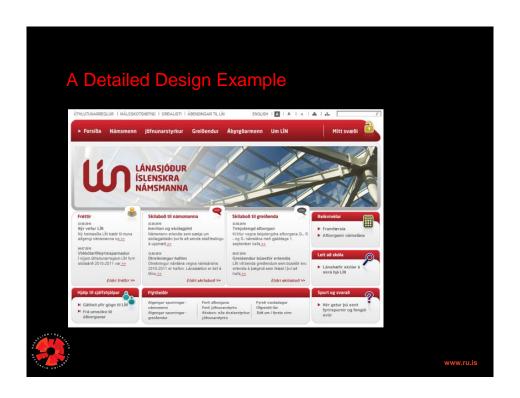


3. Stage - Detailed Design Definition

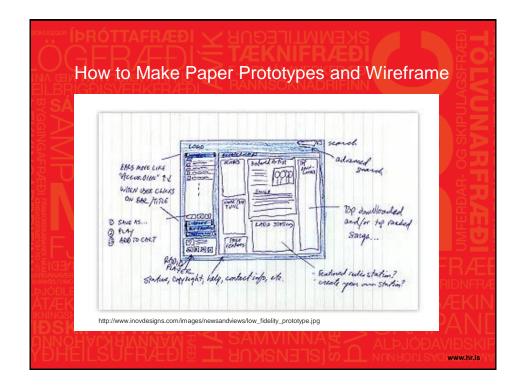
- · Uses materials that you would expect to be
 - in the final product
- Prototype looks more like the final system
 - than a low-fidelity version
 - You can push all buttons
 - You can insert data
- For a high-fidelity software prototype
 - The one used in the final implementation
- Danger that users think they have a full system



vww.ru.is



Type	Advantages	Disadvantages
Low-fidelity prototype	 Quick revision possible More time can be spent on improving the design before starting development Evaluates multiple design concepts Useful communication device Proof of concept 	 Limited error checking Poor detailed specification for development Facilitator-driven Limited usefulness for usability test Navigational and flow limitations
High-fidelity prototype	 (Almost) complete functionality Fully interactive User-driven Clearly defines navigational scheme Use for exploration and test Look and feel of intended product Serves as a "living" or evolving specification Marketing and sales tool 	 More resource-intensive to developed. Time-consuming to modify Inefficient for proof-of-concept designs Potential of being mistaken for the final product Potential of setting inappropriate expectations



Making Low-fi (wireframe/paper) Prototypes

You decide two things:

- 1. What should be in each window/page
 - What elements should we include?
 - Where should these be placed?
- 2. How the structure is between the windows/pages
 - How is the flow, what happens first and what next?
 - What are the actions for the users to complete a use case?



www.ru.is

To make a low fidelity prototype

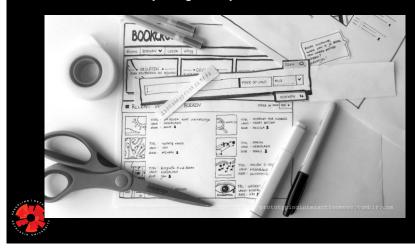
- 1. Preparation
 - 1.1 Prepare the place and time
- 2. Make the low fidelity prototype
 - 2.1 Go through a use case description to find the elements you need
 - 2.2 Define the interface widgets
 - 2.3 Make the prototype
 - 2.4 Show it to each other
- 3. Conduct a prototype interview with users
 - 1.1 Gather all the results
- 4. Change the interface according to the users comments (iterate)



1. Preparation

Prepare data and material

- Have everything ready



/ww.ru.is

Let the Description in the Use Cases Guide You

The requirement:

A user needs to be able to buy a theater ticket

Description in the Use Case:

- 1. Pick a performance you want to go to
- 2. State what date you would like
- 3. Buy a ticket
 - 1. State how many tickets you need
 - 2. Select the tickets you like
 - 3. Insert information for payment
 - 4. Insert information on the delivery

No. of the second secon

2. Make the prototype

- 2.1 Go through the use case description
 - Define the important parts of the system for the user, key function and atomization
- 2.2 Define the interface widgets
 - Here the technical environment has been decided, e.g. we probably know if it should be a website, a client, an app, etc...
 - To do:
 - Suggest how the widgets should look like
 - Have many suggestions
 - Look at pros and cons
 - Pick one idea if you have many
 - Draw on a blackboard
 - Go through the use case that relate to this design



www.ru.is

Could be like this Time Dates & B.D.O. Mao D. daylege 19 12 14 16 7221 Print 1200 Print dayer 19 82 Print 1200 Print dayer 19 12 15 Fast dayer 19 12 15 Fast dayer 19 12 Fight al. Print 120 Inguishing 19 12 Fight al. Print 120 Inguishing 19 18 Fift Wigasemdir Myad Text Tal Tal Text Stateday.

2. Making the prototype

2.3 Make the prototype individually

- Should be able to move all parts, menus, buttons, regions in the interface
- Make all the important parts of the interface accessible
- There should be no hidden functions in the UI
- Give examples of data
 - Don't show a lot of empty screens
- Have some information supplementing the design
- When the prototype is ready, run the tasks and actions to see if it works!

2.4 Show it to each other

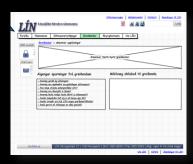
Try out your various designs and decide which is best

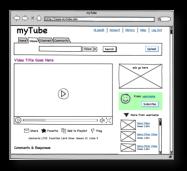


www.ru.is

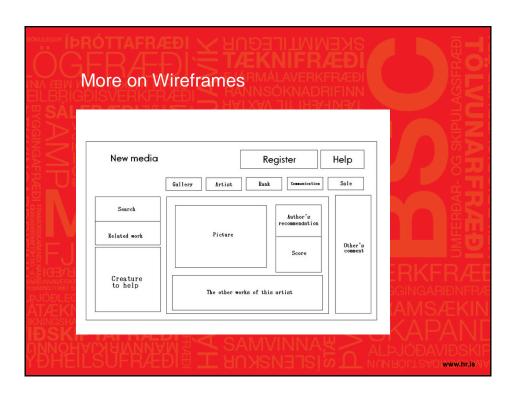
Prototyping in a tool

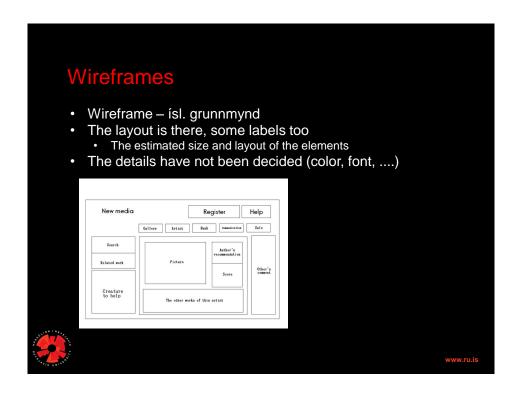
- Many tools available, e.g.:
 - Draw.io, Paint, Power Point, Balsamiq, Mockingbird, Excel
 - You should use Draw.io if you want to use a tool



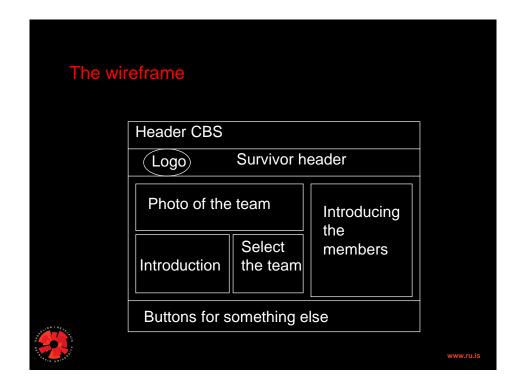


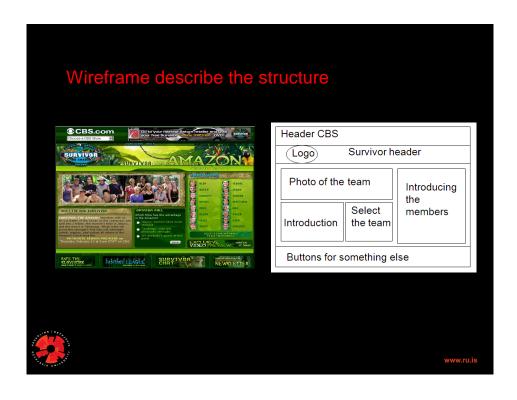


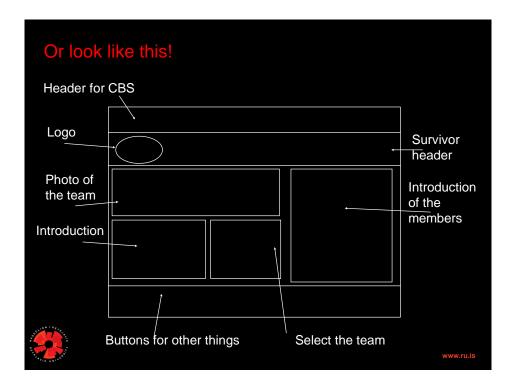






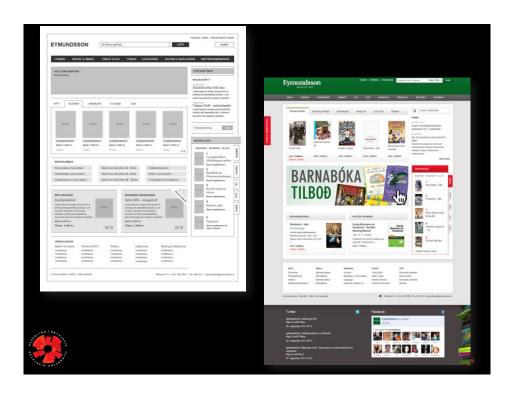


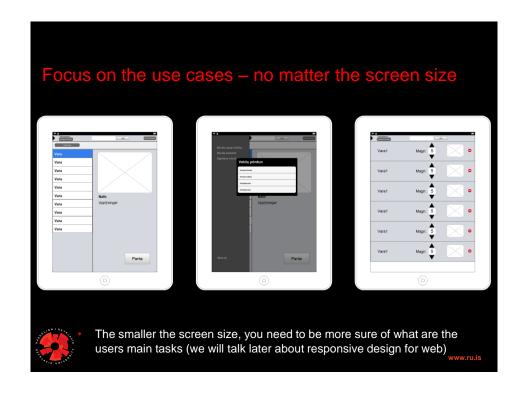


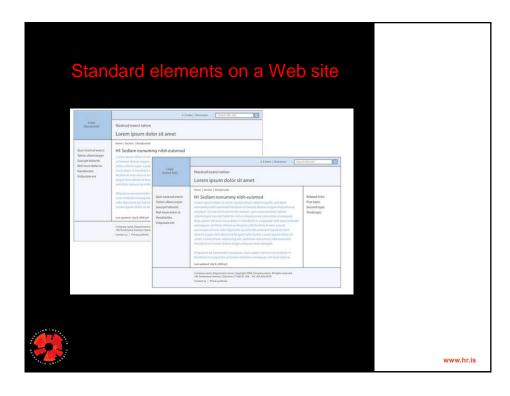








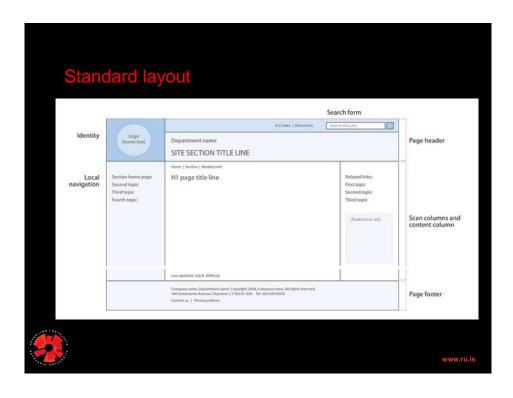


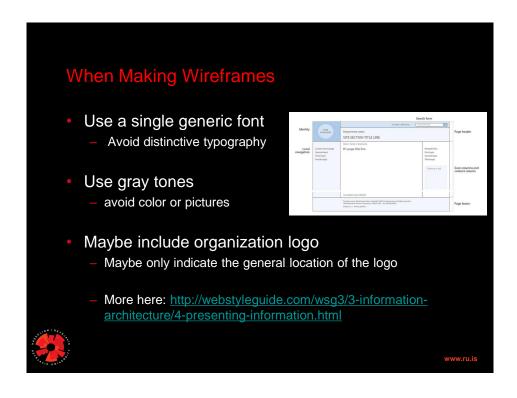


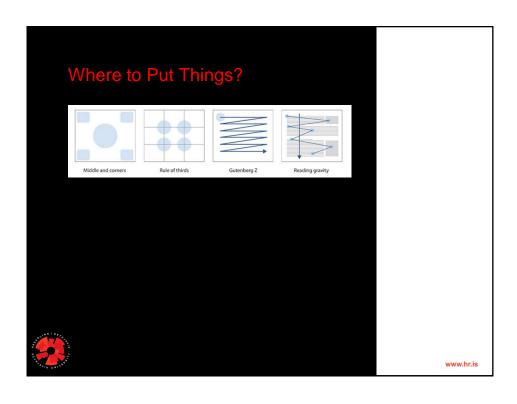
Standard elements on a web site

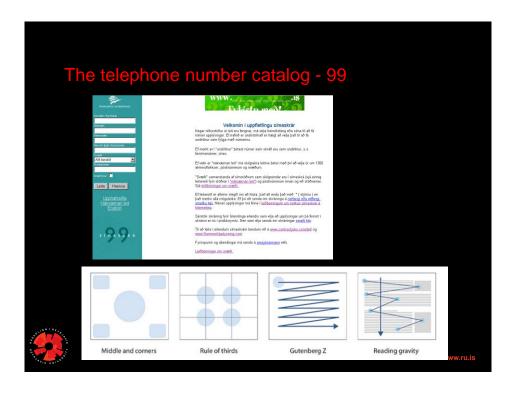
- Organizational logo
- Site identity or titles
- Page title headlines
- Breadcrumb trail navigation
- Search form
- · Links to a larger organization of which you are a part
- Global navigation links for the site
- Local content navigation
- Primary page content
- Mailing address and email information
- Copyright statements
- Contact information

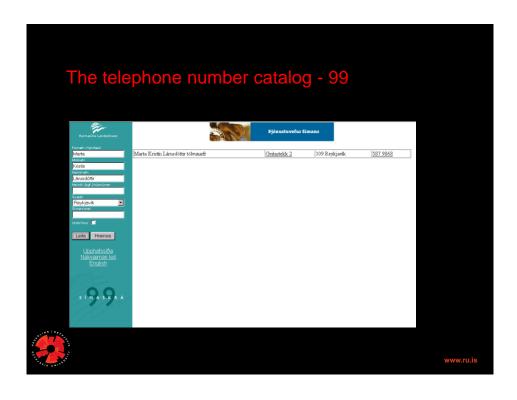


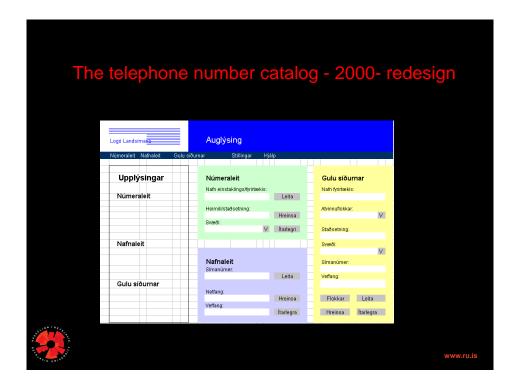




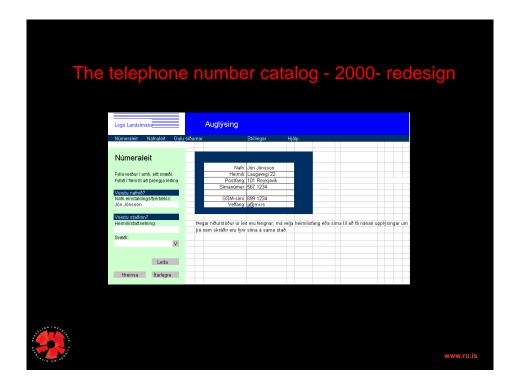




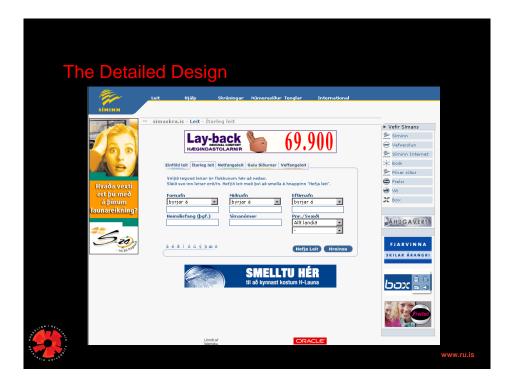


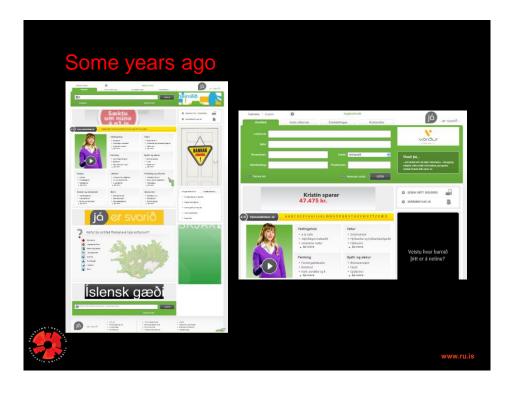


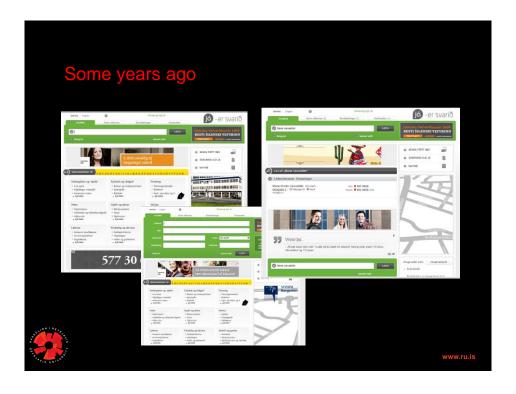
The telephone n	umber estales 2000 redecia	
The telephone in	umber catalog - 2000- redesig	11
Logó Landsímans	Auglýsing	
Númeraleit Nafnaleit Gulu	stőurnar Stillingar <u>Hjál</u> p	
Númeraleit	Velkomin í leit að símanúmeri	
	Velkoniin i leit ao Simanamen	
Fylla verður í amk, eltt svæði. Fyllið í fleiri til að þrengja leitina.		
Veistu nafnið?	Veistu nafnið? - DÆMI	
Nafn einstaklingsffyrirtækis:	Nafn einstaklings/flyrirtækis:	
Veistu staðinn?		
Heimill/staðsetning:		
Swæði:	Veistu staðinn?- DÆMI	
Leita	Heimili/staðsetning:	
Hreinsa Ítarlegra	Svæði:	
are the second		
THE WALL BOY WALL		www.ru.is

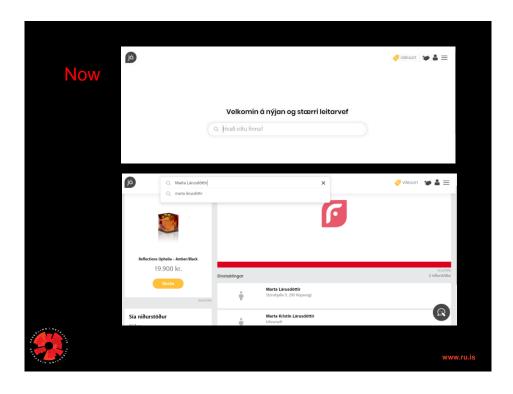


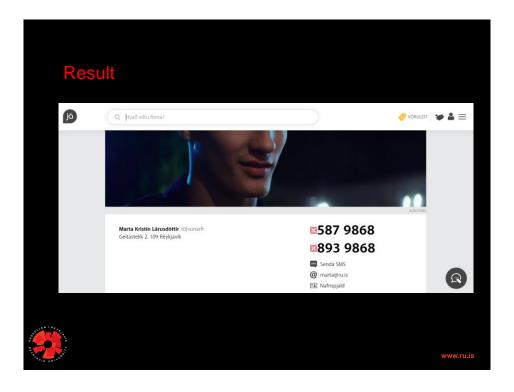


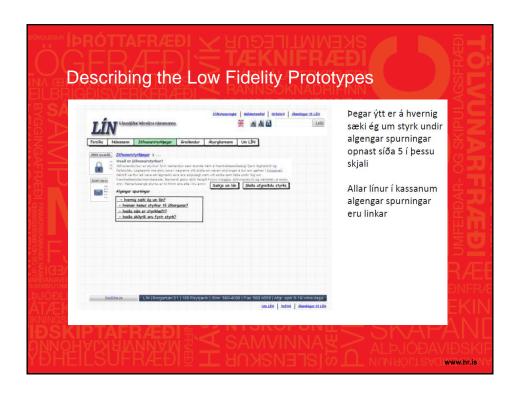


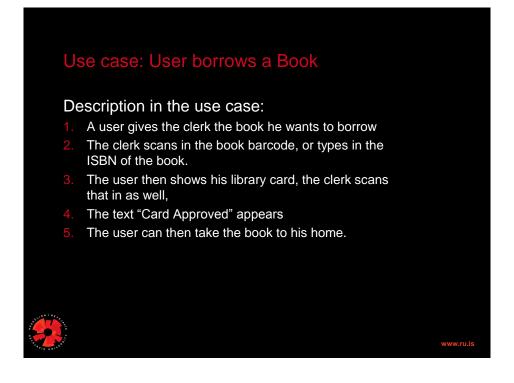












The Design: Low Fidelity Prototype 1. A user gives the clerk the book he wants to borrow (no interface), ISBN: the clerk scans in the book barcode, or types in the ISBN of the book. The user then shows his Card approved library card, the clerk scans that in as well, 4. The text "Card Approved" is displayed The user can then take the book to his home.

Summary

- Low-fi prototyping
 - Both on paper and made in a tool
 - Rough sketches of the interface
- The main decisions
 - What should be on each screen
 - The layout of each screen
 - Where should each item be on the screen
- Wireframes show this in a clean way

