

Case Study

User Centred Inventory management system

Västgöta nation, Uppsala

Problem:

The system had an old approach towards the user centric design model and wasn't as per modern needs, which can increase the efficiency to use the system on task completion and avoiding ambiguities.

The user would interact with the system in a user centric way. Many tools/functions were made available directly in the web application.

It was a stand-alone system which caused a lot of problems if any of the papers are misplaced. Multiple data entries inviting opportunities to human errors.

Roles:

User Experience Researcher, User Interface Designer.

Time:

22 weeks

Solution:

A new UCS was created according to the new standards, also enhancing UX by intuitive flow, ease of information access and appropriate system feedback.

Adaptation of Modern methods over old Pen-Paper method.

Activities:

Interview, Storyboard, and Lo-Fi Prototyping.

Process:

The current system.

Pen-Paper system, super user gives access to users in a very layman method.

Receives the data and then enters manually again into the system using Google Docs

The left image shows a screenshot of a software interface with a table of data. The table has columns for 'ID', 'Name', 'Type', 'Status', and 'Date'. The data is organized into rows, with some rows highlighted in blue and others in orange.

The right image shows a printed document with two tables, 'Cider' and 'Task/Event', and handwritten notes below them. The 'Cider' table has columns for 'ID', 'Name', 'Type', 'Status', and 'Date'. The 'Task/Event' table has columns for 'ID', 'Name', 'Type', 'Status', and 'Date'. The handwritten notes below the tables are:

der gegen
7up - 5 Minuten
papi - 5 Minuten

Artifact model

Tools Used:

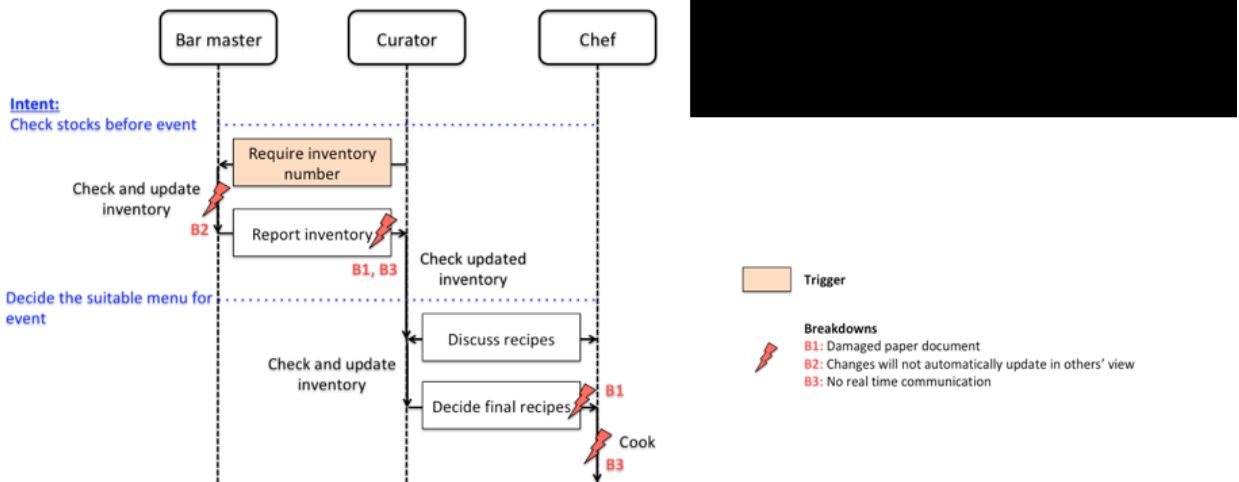
- Interview
- Modelling- Artifact, Statistic, Cultural

Requirements gathering and Research

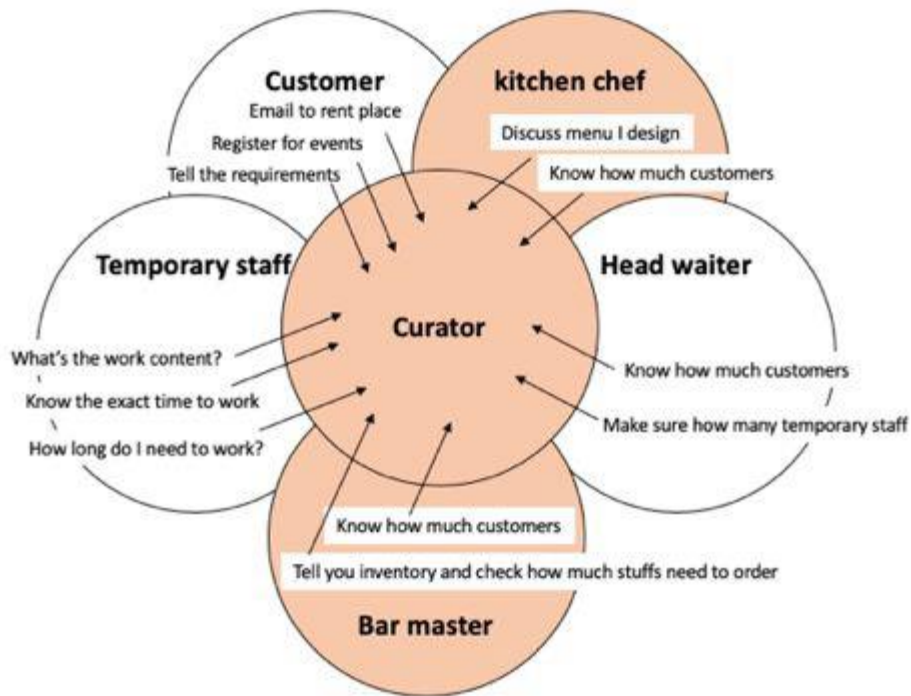
- Stakeholder interviews,
- Requirement's elicitation,
- Research the old system.

Define & Execute

- Information Structure.
- Lo-Fi Prototype.
- Review and comment UCS
- Design actions and corresponding feedback: Select, Edit, Success, and Save.

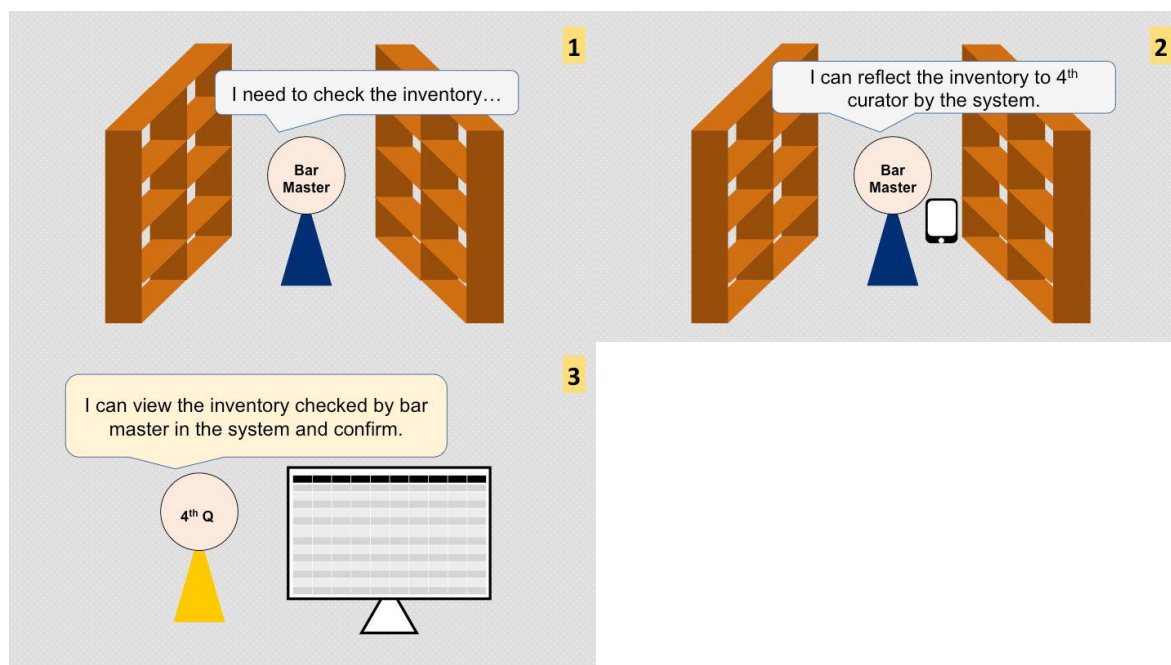
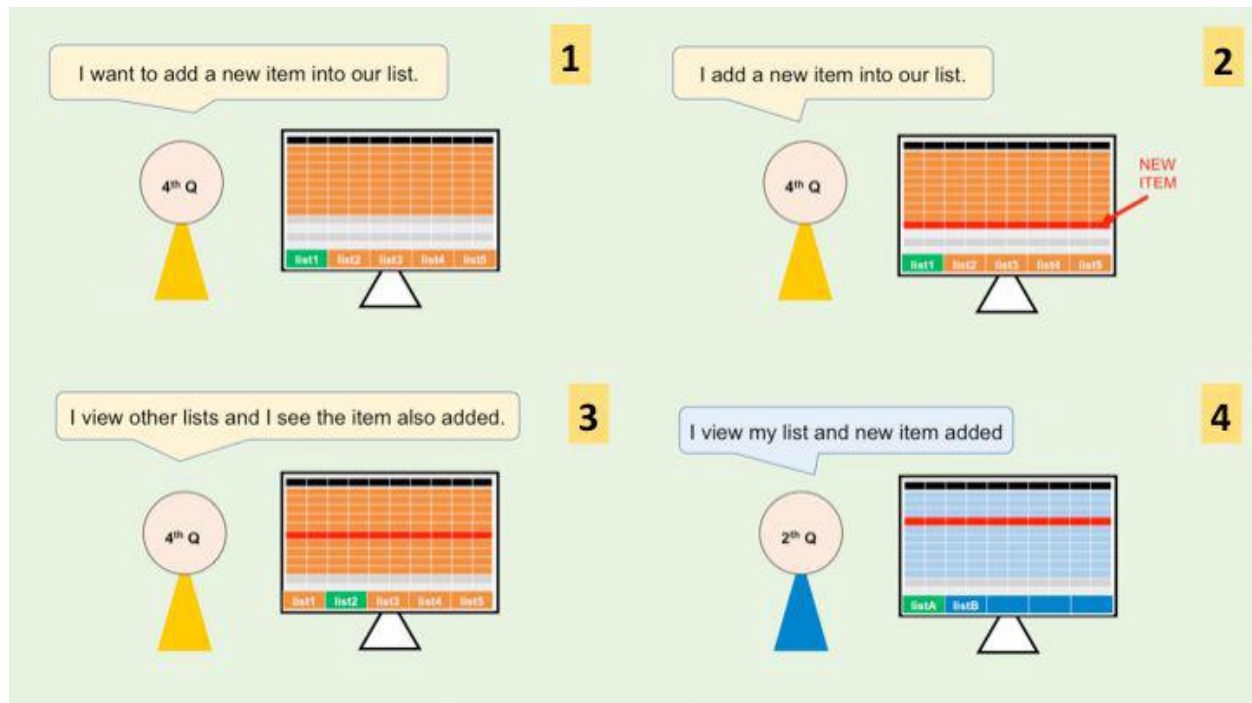


Sequential model



Cultural model

Storyboard:
Tools Used: Draw.



Lo-Fi Prototype:

Tools Used: Figma, IBM Rational Rose, Draw.



VÄSTGÖTA NATION




I Uppsala

Log in

VÄSTGÖTA NATION					4 th Curator	
Beer						
• Beer						
ID	Name	Stock	Re-Order Point			
01011	Beer1	1	5			
01012	Beer2	5	5			
01013	Beer3	3	5			
01014	Beer4	10	5			
01015	Beer5	4	5			
01016	Beer6	7	7			
01017	Beer7	8	10			
01018	Beer8	6	5			
01019	Beer9	3	5			
01020	Beer10	2	5			
01021	Beer11	4	6			
01022	Beer12	9	5			
01023	Beer13	3	10	5		

VÄSTGÖTA NATION					4 th Curator	
Beer						
• Beer						
ID	Name	Stock	Re-Order Point			
01011	Beer1	1	5			
01012	Beer2	5	5	2019-Mar-02	4	
01013	Beer3	3	5			
01014	Beer4	10	5			
01015	Beer5	4	5			
01016	Beer6	7	7			
01017	Beer7	8	10			
01018	Beer8	6	5			
01019	Beer9	3	5			
01020	Beer10	2	5			
01021	Beer11	4	6			
01022	Beer12	9	5			
01023	Beer13	3	11	5		

Beer	Wine	Liquor	Recipe	
• Beer				
	ID	Name	Stock	Re-Order Point
✗	01012	Beer2	5	5
✗	01013	Beer3	3	5
✗	01014	Beer4	10	5
✗	01015	Beer5	4	5
✗	01016	Beer6	7	7
✗	01017	Beer7	8	10
✗	01018	Beer8	6	5
✗	01019	Beer9	3	5
✗	01020	Beer10	2	5
✗	01021	Beer11	4	6
✗	01022	Beer12	9	5
✗	01023	Beer13	3	5



13

Beer

Wine

Liquor

Recipe

Beer

	ID	Name	Stock	Re-Order Point
	01011	Beer1	1	5
	01012	Beer2	5	5
	01013	Beer3	3	5
	01014	Beer4	10	5
	01015	Beer5	4	5
	01016	Beer6	7	7
	01017	Beer7	8	10
	01018	Beer8	6	5
	01019	Beer9	3	5
	01020	Beer10	2	5
	01021	Beer11	4	6
	01022	Beer12	9	5
	01023	Beer13	3	14 5

Add new Item

ID

Name

Stock

01056

New Item

0

+

Add

Beer	Wine	Liquor	Recipe
• Recipe			
1	Chicken Burger		
2	Tomato soup		
3	Recipe1		
4	Recipe2		

VÄSTGÖTA NATION

4th Curator

Beer

Notes

Unsolved

Solved

To Bar Master

Have you checked the latest inventory?

Reply

View Reply

To 4th Curator

I think the recipe should be changed

Reply

Close Reply

4th Curator · Which one?

New Note

+

5

5

5

5

10

5

7

7

10

6

5

3

5

2

5

4

6

5

5

01023 Beer13

VÄSTGÖTA NATION

Bar Master

Beer

Notes

Unsolved

Solved

To Bar Master

Have you checked the latest inventory?

Reply

View Reply

To 4th Curator

I think the recipe should be changed

Reply

Close Reply

4th Curator · Which one?

New Note

+

5

3

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5

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5

5

5

5

5

5

change

VÄSTGÖTA NATION

4th Curator

Beer

Wine

Liquor

Recipe

1

Chicken Burger

✗

2

Tomato soup

✗

3


Recipe1


✗

4

Recipe2

✗

 VÄSTGÖTA NATION

 Chef

Recipe

- Recipe – Chicken Burger

Instructions

Type instructions for methods

Item	stock
...	-
...	-
...	-
...	-
...	-
...	-
...	-
...	36 *

Design highlights

The UI design was made to be easy on the eye because Users would typically work with the inventory system for majority of their workday. Thus the design should be neutral. UI customization in the future was also made possible. The system supported multiple languages, locales, permissions, and keyboard navigation. The web application was designed for desktop and large screens and had a responsive layout with two breakpoints: 1024 px and 1200 px.

The input amount field was formatted when focus was moved to the next input field. Users want to click or enter digits only. In future, the web application can be made as an mobile application with API integration into Fortnox.