

TUtasty - Iteration 4

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Agenda

- 1. Reflection + Design Changes
- 2. HiFi Web App
- 3. Quantitative Evaluation

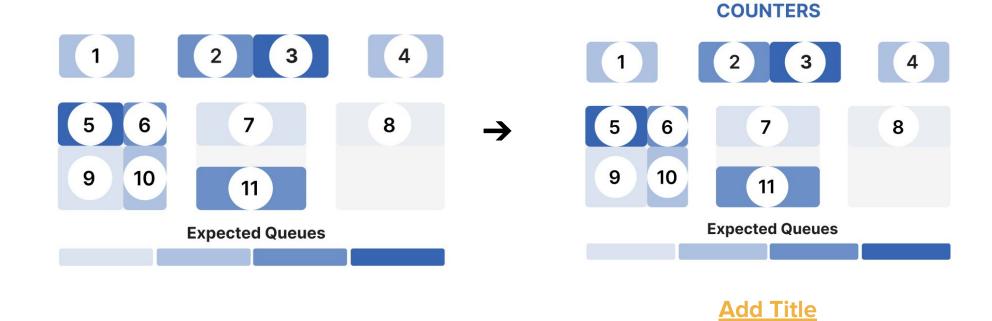


N=2, Female:1 Male:1, both students

- 1. The color scheme of the interface is simple and beautiful, and matches well with TUM
- 2. User flow is smooth
- 3. The details page about the dishes is clear
- 4. The tips in the dish rating page are helpful
- 5. It is helpful to know where the dishes are located
- 6. There are pictures of the dishes which are very visual and attractive

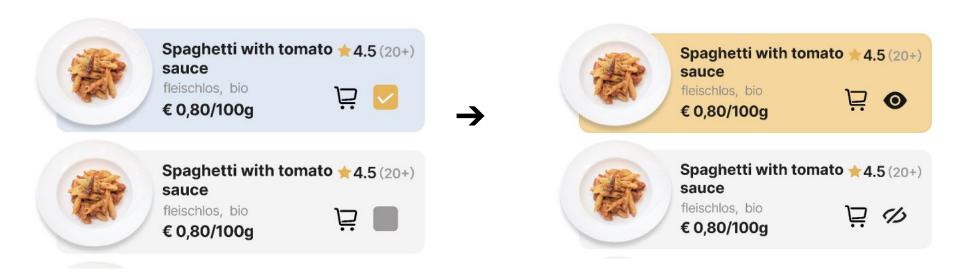


1. Confused about the counter map





2. Checkbox is not well correlated with the viewing location

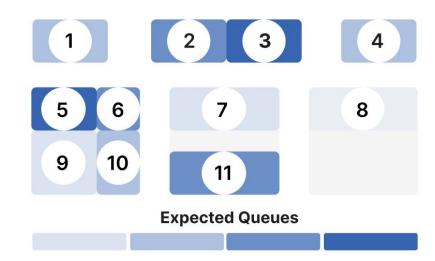


New icon, New color



3. "Four levels of "queues" are not necessary,

three levels are recommended for better differentiation.



This will be modified later



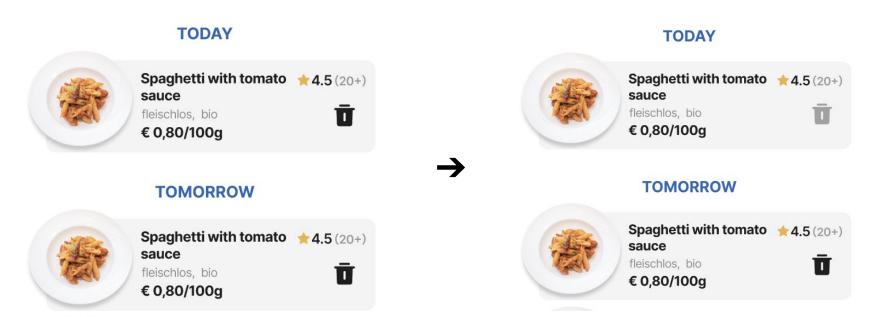
3. "When ordering directly by clicking on the shopping box, i do not receive timely feedback on whether the reservation was successful"



Add Pop-up



4. "It is not possible to distinguish if the current reservation is already non-cancellable."





5. "I want to like or favorite some dishes instead of booking them directly, which the app should enable. Or the dishes I like could be displayed at the top position."

This will be modified later



Web Hifi





Experimental Design - Set up

- 1. Location/Tools: Online via Zoom, Chrome Browser.
- 2. Test persons: A total of 10 people, including tum students and faculty members, with a balanced gender ratio.
- 3. 30 minutes per session.
- 4. Data Acquisition:

Data recording with Computer Microphone and Camera (screen and voice recording), Timer, and Counting events (e.g. errors) by hand.



Experimental Design - Test cases(total 14)

Task	Instruction
1	Please follow the link and start the app.
2	Please view the canteen occupancy.
3	Please view the cafeteria occupancy for the next day.
4	Please view today's meal schedule.
5	Please check the location of the counter where the dish "Spaghetti with tomato sauce" is located and find out the queue at this counter.
6	Please view more information of "Spaghetti with tomato sauce".
7	Please view the most recent review of this dish.
•••	••••



Experimental Design - Hypothesis

Goals	Hypothesis
1. Learnability	1.1 More than one way is used to book or cancel dishes.
2. Effectiveness	2.1 Average completion rate of >70% for all tasks completely performed by users
	2.2At least 80% of the test persons complete the task of book dishes.
	2.3At least 80% of the test persons complete the task of checking the location of
	the counter where the dish is located and finding out the queue at this counter.
3. Efficiency	3.1 The average time for a user to book a dish for the first time is less than 20s.
	3.2The average time to cancel a scheduled dish is at most the 20s.
4. Memorability	4.1 At least 70% of users can remember the three first-level navigation of the product after testing.
5. Errors	5.1The average number of errors is at most 6 in fulfilling all tasks.
	5.2At most 40% of the test persons will be confused or make mistakes with the
	counter map.
6. Subjective satisfaction	6.1 The prototype achieves at least a rating of 6.5 out of 10 on average.
	6.2 SUS-Score exceeds a value of 70.
	6.3 The average Task Level Satisfaction does exceed a value of 5.



Experimental Design - Metrics objective

2. Effectiveness	2.1 Average completion rate of >70% for all tasks completely performed by users	$rac{number\ of\ people\ who\ completed\ the\ task}{number\ of\ peole\ who\ did\ not\ complete} imes 100\ \%$
3. Efficiency	3.1 The average time for a user to book a dish for the first time is less than 20s.	The time users take to complete task 9.
	3.2 The average time to cancel a scheduled dish does not exceed 20s.	The time users take to complete task 11.
4. Memorability	4.1 At least 70% of users can remember the three first-level navigation of the product after testing.	$\frac{\text{number of people who remembered the three nav-bar}}{\text{total number of test persons}} \times 100\%$



Experimental Design - Metrics subjective

6. Subjective	6.1 The prototype achieves at least	Rating number
satisfaction	a rating of 6.5 out of 10 on	
	average.	
	6.2 SUS-Score exceeds a value of 70.	SUS-Score
	6.3 The average Task Level	SEQ-Score
	Satisfaction does exceed a value of	
	5.	



Experimental Design - Metrics subjective

1. Task-level satisfaction: SEQ Questionnaire

Very						Ver
Difficult						Eas
0	0	0	0	0	0	0

The Single Ease Question (SEQ).



Experimental Design - Metrics subjective

2. Test-level satisfaction: SUS Questionnaire

	1 - Strongly disagree	2	3	4	5 - Strongly agree
I think that I would like to use this system frequently.					
I found the system unnecessarily complex.					
I thought the system was easy to use.					
I think that I would need the support of a technical person to be able to use this system.					
I found the various functions in this system were well integrated.					
I thought there was too much inconsistency in this system.					
I would imagine that most people would learn to use this system very quickly.					
I found the system very cumbersome to use.					
I felt very confident using the system.					
I needed to learn a lot of things before I could get go- ing with this system.					





Thank you for your attention!



