

Next Generation Coffee Maker

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Project Description

Problem Statement

The computer science department cannot exist without a steady coffee supply. Unfortunately, the current generation coffee maker no longer meets the requirements of the coffee-fuelled computer scientists. It doesn't accept cashless payments, doesn't allow drink customization and it wastes the users time when they have to wait for their drinks

Conclusion

The new generation coffee maker should allow users to modify their coffee recipe, accept new payment types (cashless). The best solution would be creating an app allowing users to order their coffee remotely, store their recipes and add quick and cashless payment.

Objective/Approach

Objective

Create a next generation coffee maker which:

- Allows the user to modify their coffee recipe
- Accepts multiple payment methods, including cashless
- Enables users to place orders through an app to pick up later and minimise wait times

Approach

- Clarify requirements and use cases
- Research what the users need (types of coffee, payments)
- Update the machine, develop compatible software
- Deploy the solution
- Test and improve based on users' feedback and order patterns

Resources/Schedule

Who

Team consisting of coders, use case designer, designer, architect and design reviewer

When

Initial research, use cases, requirements – 3 weeks

Installing new coffee machine – 1 week

Development should take another 4 weeks, subsequent testing another 4 weeks

Total of 12 weeks to create next generation coffee maker

Requirements

Benefits

- Increased happiness and satisfaction of users which can improve their work and productivity
- More users – new options will attract users who weren't previously able to make orders due to the restrictions
- Improved proces of restocking by automating and notifying the admin

Constraints

- The coffee machine needs to be able to handle a variety of rapidly changing requests and recipes
- Network issues – bad internet access
- Possible problems with payments, occasional errors