

# Service-oriented CoffeeMaker tool

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## Project Description

### Problem Statement:

Quite often, people come to coffee shops at the same time and wait in queue to drink coffee or chat with other. Also someone want to drink coffee in office and and when they come then a coffee is cold.

### Conclusion:

Therefore, we want to offer the possibility to order coffee through the application in advance to save time on service and to give the opportunity to order it for a certain time. In addition, it will be possible to deliver it (in a certain area).

## Objective/Approach

### Objective:

- Implement a service-oriented platform for ordering coffee;
- Create applications to interact with the created platform.

### Approach:

- Conduct the survey in the place where it is planned to place the kiosk
- Conduct literature review and feasibility study
- Define system requirements and use cases
- Creation of application design
- Verify and validate the design and use cases
- Development of service-oriented platforms and applications
- Creation of architecture and documentation

## Resources/Schedule

- 30/1/2023 - Literature review
- 6/2/2023 - Conduct the survey in the place where it is planned to place the kiosk
- 13/2/2023 - Construction of system requirements
- 20/2/2023 - Creation of architecture and documentation
- 27/2/2023 - Writing unbound services / Creation of the web site and phone applications (interfaces were specified during the creation of the architecture)
- 6/3/2023 - Testing of written services and applications with error correction
- 13/3/2023 - Unification of services and applications into one product with their further testing and error correction
- 20/3/2023 - Release of software with subsequent deployment

## Requirements

### Benefits:

- High scalability of the system;
- High system reliability;
- Ability to serve more customers and improve service;
- Ability to deploy a decentralized system.

### Constraints:

- The system should have some redundancy (reserved services to guarantee stable work);
- The system should have few level of access (like worker, admin and so on);
- It should be possible to place an order through the application or through the website