# Coffeemaker

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## Project Description

**Problem Statement**

- Existing automated coffee kiosks require physical presence of the user at the machine
- Only one person can place an order at a kiosk at a time, possibly resulting in queues
- Current solutions do not allow us to save our recipe for future orders
- Customization options provided for ordered coffee are lacklustre

**Conclusion**

A next generation coffee machine is needed that can accept and deliver orders placed by multiple concurrent users remotely

## Objective/Approach

**Objective**

Remote coffeemaker machine (RCM)

**Approach**

- Define requirements for FCM
- Conduct a feasibility study for FCM
- Design a service-oriented framework adopted for comprehensive coffee delivery duty
- Develop required FCM services
- Validate

## Resources/Schedule

| Date | Task |
|---|---|
| 01/30 | Requirements for RCM |
| 02/07 | Feasibility study of RCM |
| 02/14 | Design of initial RCM framework |
| 02/21 | Implementation of required RCM services |
| 02/28 | Final testing |
| 03/05 | Validation of requirements |

## Requirements

**Benefits**

**(Functional)**

- Comprehensive coffeemaker framework that saves end user's time and exerted effort on many levels by:
  - allowing for remote order placement,
  - saving user's coffee recipe,
  - delivering the coffee directly to the user.

**Constraints (Non-functional)**

Time required to deliver coffee is still related to the frequence of order placement resulting in queue times further dependent on investment and system's scalability