A MICROSERVICE FOR MULTI-CHANNEL NOTIFICATIONS

UPORTO | L.EIC | CAPSTONE PROJECT 2022/23

- A microservice to send notifications across multiple channels for informing users of network/service issues.
- Allows users to be informed about any problem occurring in the Altice service improving trust and loyalty to the company

MEMBERS

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INTRODUCTION

- Developed as a parternship with Altice Labs
- Focuses on a microservice that can notify multiple channels
- Useful to facilitate communication within Altice Labs stack of products

METHODOLOGY

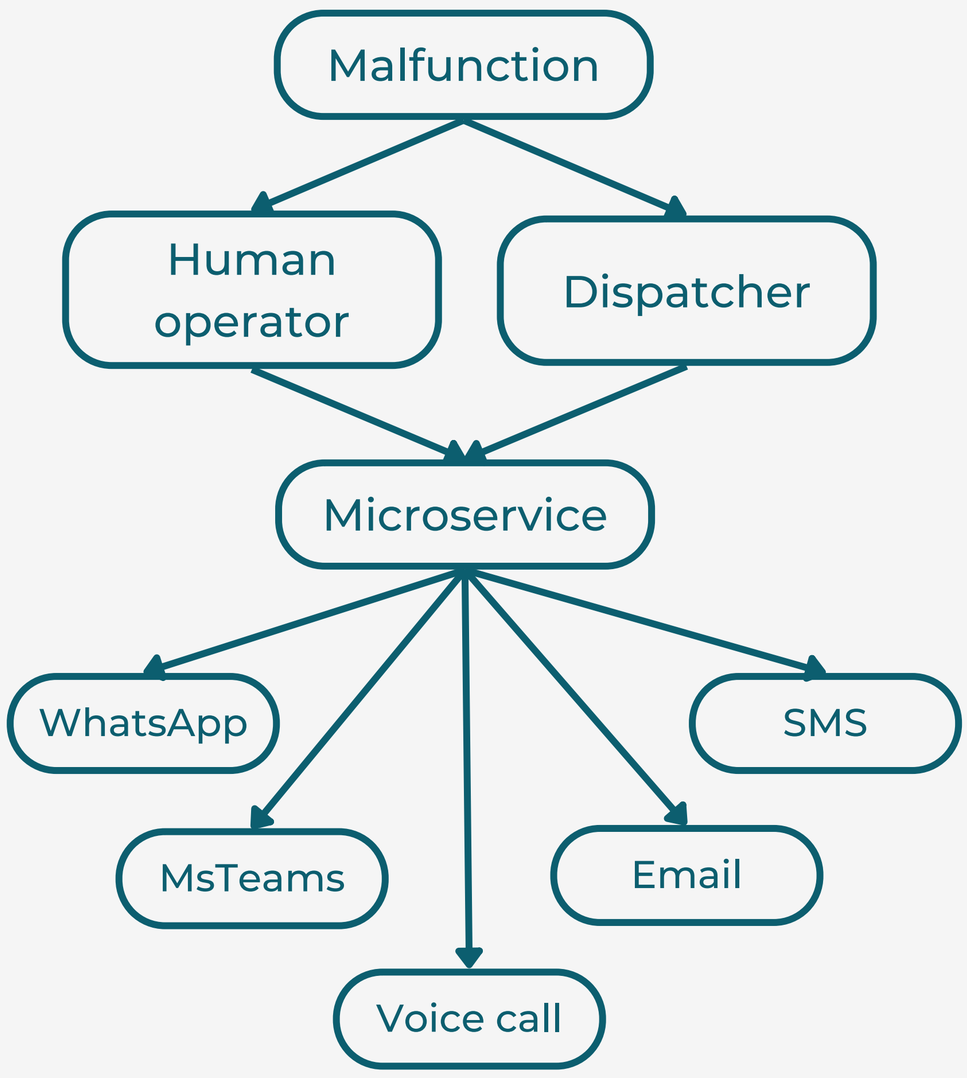
- Developed using an agile methodology
- Followed closely by stakeholders at Altice Labs responsible for defining the goals of the project.
- Weekly sprint meetings with Altice Labs

TECHNOLOGIES

- Quarkus framework
- Kubernetes - minikube
- Selenium and Junit 5 for testing
- Hibernate, SonarCloud and more

SOLUTION

- Follows a Decorator design pattern
- Easy to implement new features and plugins
- Allows combination of plugins
- Additional features as notification scheduling, sending locations, templates, attachments and more
- Supports optional parameters in queries
- Secured by Authenticator and spam detector
- Metrics and Health checkers
- Supported by a PostgresSQL database



RESULTS

The final product resulted in :

- an impactful service to society and Altice Labs, that builds trust and loyalty with clients
- a highly configurable service
- support for multiple plugins
- well documented product integrated in CI/CD pipelines for static analysis, security scanning and end-to-end testing
- a support to kubernetes deployment