CZECH TECHNICAL UNIVERSITY IN PRAGUE FACULTY OF INFORMATION TECHNOLOGY



ASSIGNMENT OF BACHELOR'S THESIS

Title: ElateMe - Backend
Student: Yevhen Kuzmovych
Supervisor: Ing. Ji í Chludil
Study Programme: Informatics

Study Branch: Software Engineering

Department: Department of Software Engineering **Validity:** Until the end of summer semester 2017/18

Instructions

The ElateMe system is a web application with mobile clients providing functionality of crowdfunding and wishlist satisfaction of users and their friends (e.g., for Christmas, birtday, etc.). The ElateMe is a team project. The aim is to analyse and implement a backend for ElateMe.

- 1. Analyse/create:
- use cases,
- domain model,
- non functional requirements,
- refund mechanism for cancelled or overdue users' wishes.
- 2. Design:
- class and database models,
- FB and clients push notifications depending on user interaction,
- deployment model for serving 1500 requests/sec.
- 3. Implement:
- a physical database model,
- a REST API for mobile clients,
- web endpoints for supporting payments in the FIO bank,
- implement a refund mechanism for bitcoin payments.
- 4. Test the server performance and perform unit tests.

References

Will be provided by the supervisor.

Ing. Michal Valenta, Ph.D. Head of Department

prof. Ing. Pavel Tvrdík, CSc. Dean