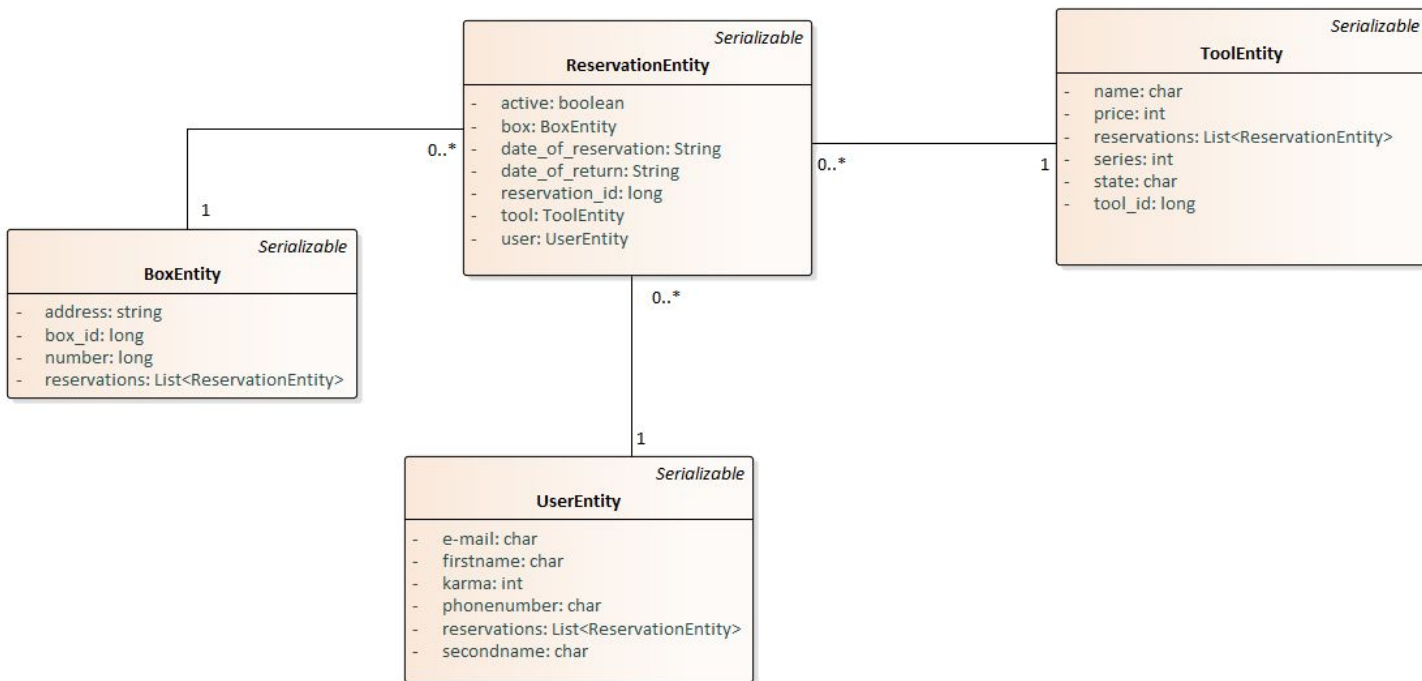# Toolsharing

Galymzhan Dosmagambet
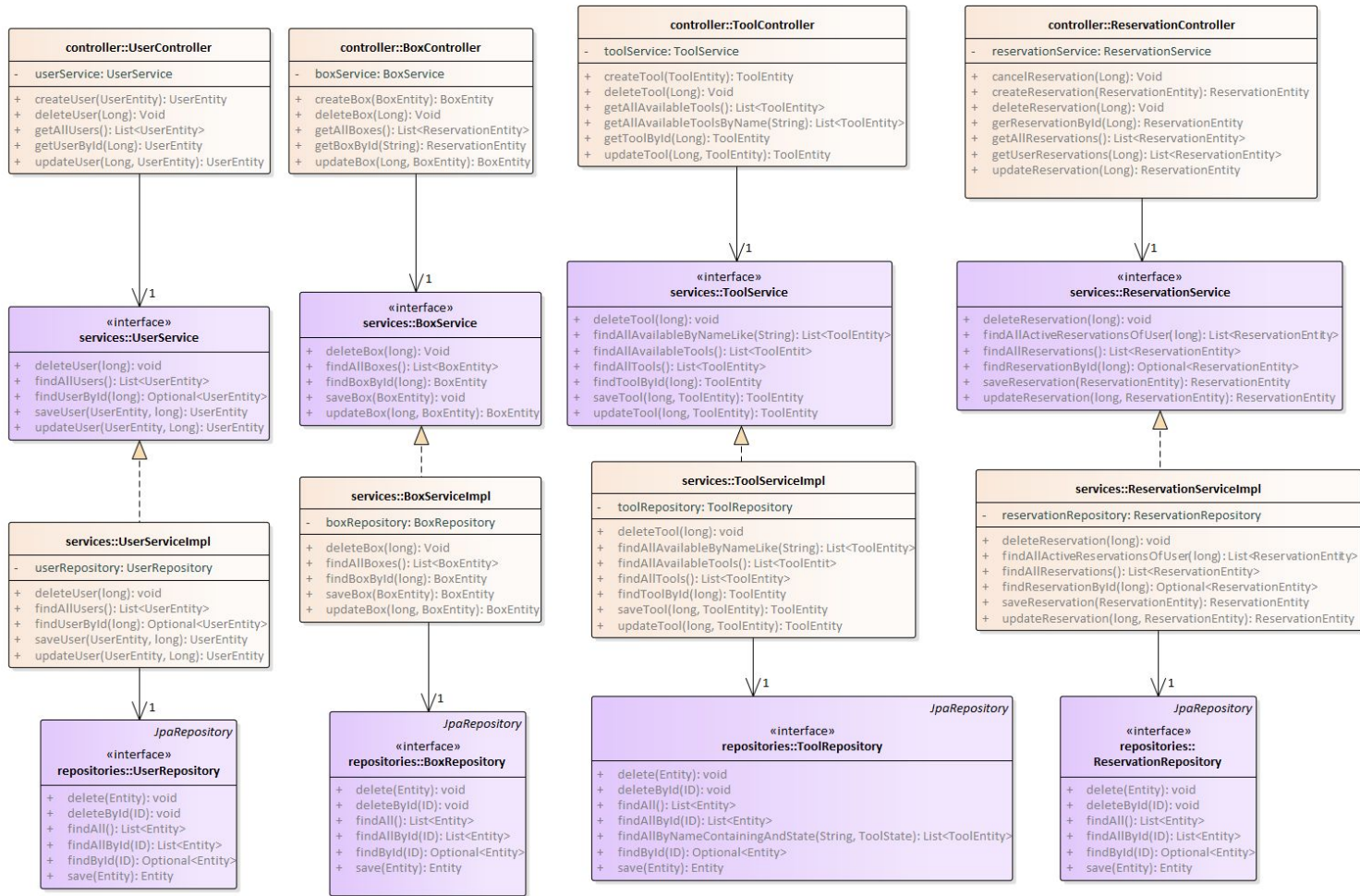Richard Šedivý
Tatiana Popova
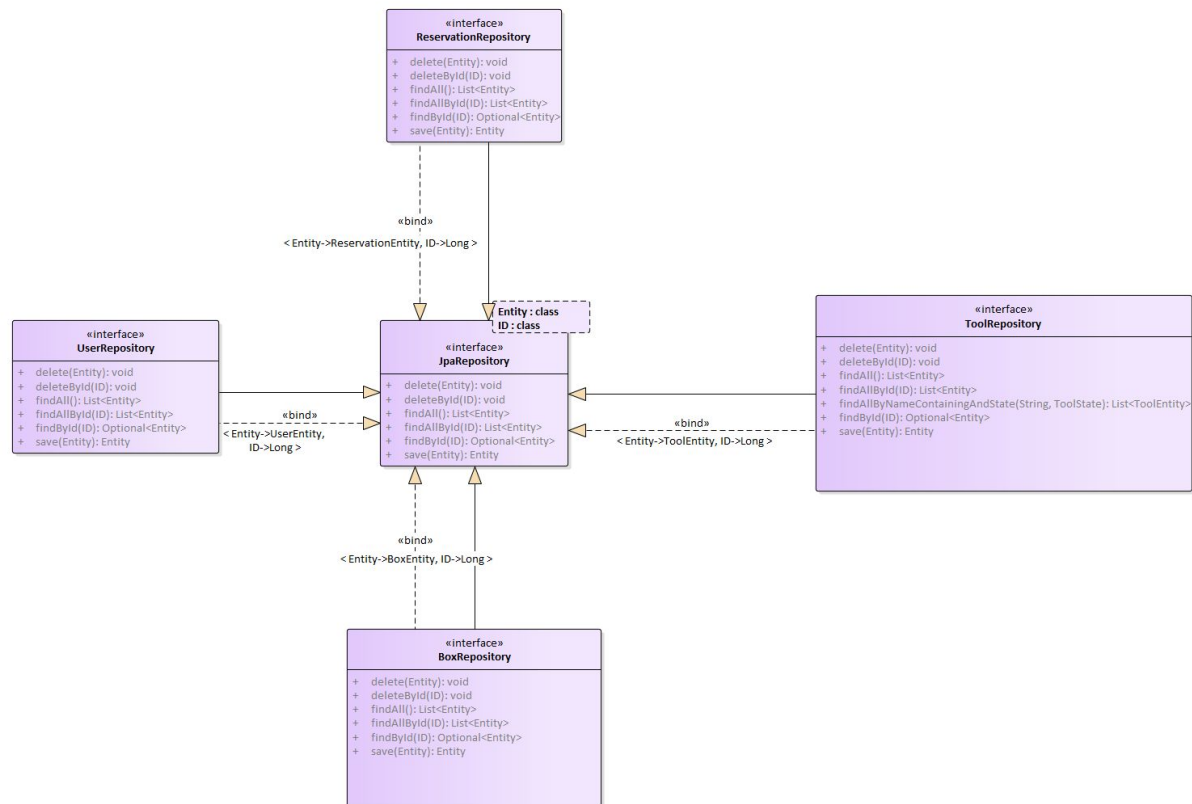Vladislav Tarasenko
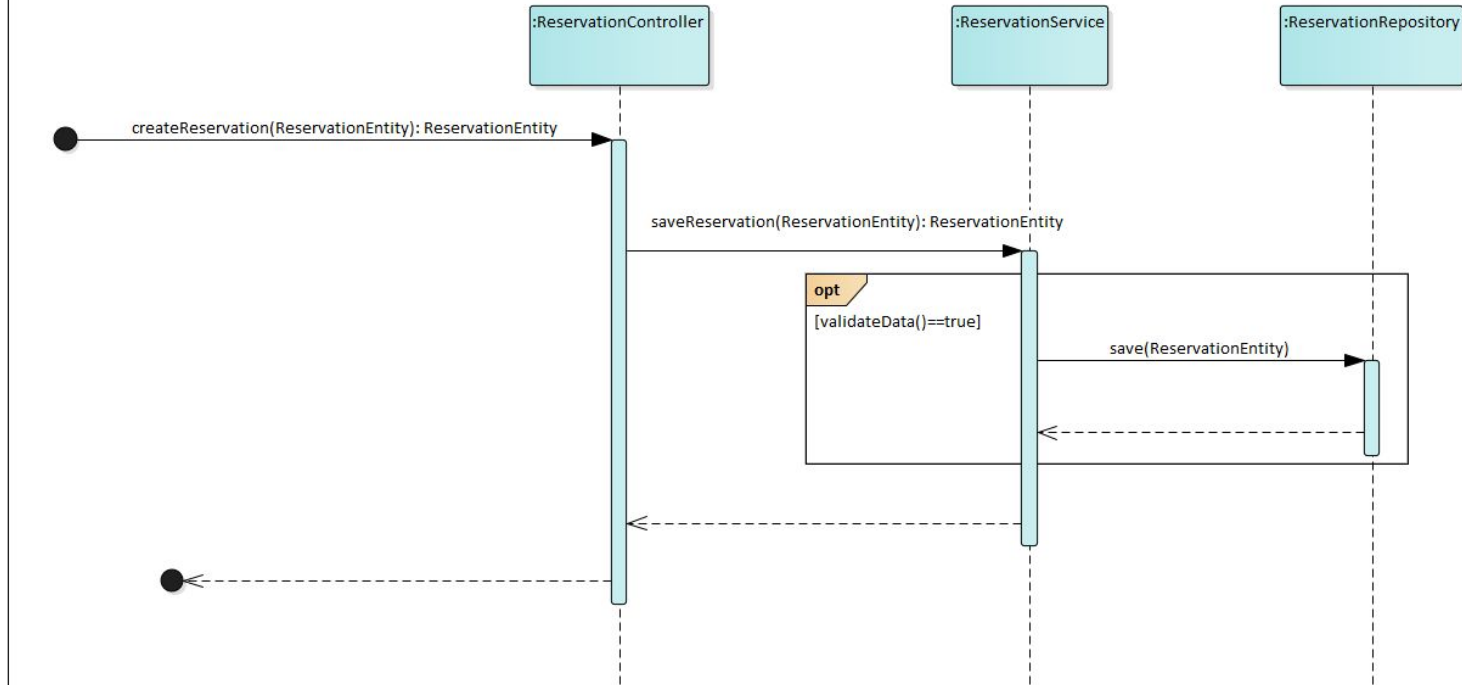Tomáš Bánhegyi

Entities

controller::UserController

- userService: UserService

+ createUser(UserEntity): UserEntity
+ deleteUser(Long): Void
+ getAllUsers(): List<UserEntity>
+ getUserById(Long): UserEntity
+ updateUser(Long, UserEntity): UserEntity

controller::BoxController

- boxService: BoxService

+ createBox(BoxEntity): BoxEntity
+ deleteBox(Long): Void
+ getAllBoxes(): List<ReservationEntity>
+ getBoxById(String): ReservationEntity
+ updateBox(Long, BoxEntity): BoxEntity

controller::ToolController

- toolService: ToolService

+ createTool(ToolEntity): ToolEntity
+ deleteTool(Long): Void
+ getAllAvailableTools(): List<ToolEntity>
+ getAllAvailableToolsByName(String): List<ToolEntity>
+ getToolById(Long): ToolEntity
+ updateTool(Long, ToolEntity): ToolEntity

controller::ReservationController

- reservationService: ReservationService

+ cancelReservation(Long): Void
+ createReservation(ReservationEntity): ReservationEntity
+ deleteReservation(Long): Void
+ gerReservationById(Long): ReservationEntity
+ getAllReservations(): List<ReservationEntity>
+ getUserReservations(Long): List<ReservationEntity>
+ updateReservation(Long): ReservationEntity

«interface»
services::UserService

+ deleteUser(long): void
+ findAllUsers(): List<UserEntity>
+ findUserById(long): Optional<UserEntity>
+ saveUser(UserEntity, long): UserEntity
+ updateUser(UserEntity, Long): UserEntity

«interface»
services::BoxService

+ deleteBox(long): Void
+ findAllBoxes(): List<BoxEntity>
+ findBoxById(long): BoxEntity
+ saveBox(BoxEntity): void
+ updateBox(long, BoxEntity): BoxEntity

«interface»
services::ToolService

+ deleteTool(long): void
+ findAllAvailableByNameLike(String): List<ToolEntity>
+ findAllAvailableTools(): List<ToolEntity>
+ findAllTools(): List<ToolEntity>
+ findToolById(long): ToolEntity
+ saveTool(long, ToolEntity): ToolEntity
+ updateTool(long, ToolEntity): ToolEntity

«interface»
services::ReservationService

+ deleteReservation(long): void
+ findAllActiveReservationsOfUser(long): List<ReservationEntity>
+ findAllReservations(): List<ReservationEntity>
+ findReservationById(long): Optional<ReservationEntity>
+ saveReservation(ReservationEntity): ReservationEntity
+ updateReservation(long, ReservationEntity): ReservationEntity

services::UserServiceImpl

- userRepository: UserRepository

+ deleteUser(long): void
+ findAllUsers(): List<UserEntity>
+ findUserById(long): Optional<UserEntity>
+ saveUser(UserEntity, long): UserEntity
+ updateUser(UserEntity, Long): UserEntity

services::BoxServiceImpl

- boxRepository: BoxRepository

+ deleteBox(long): Void
+ findAllBoxes(): List<BoxEntity>
+ findBoxById(long): BoxEntity
+ saveBox(BoxEntity): BoxEntity
+ updateBox(long, BoxEntity): BoxEntity

services::ToolServiceImpl

- toolRepository: ToolRepository

+ deleteTool(long): void
+ findAllAvailableByNameLike(String): List<ToolEntity>
+ findAllAvailableTools(): List<ToolEntit>
+ findAllTools(): List<ToolEntity>
+ findToolById(long): ToolEntity
+ saveTool(long, ToolEntity): ToolEntity
+ updateTool(long, ToolEntity): ToolEntity

services::ReservationServiceImpl

- reservationRepository: ReservationRepository

+ deleteReservation(long): void
+ findAllActiveReservationsOfUser(long): List<ReservationEntity>
+ findAllReservations(): List<ReservationEntity>
+ findReservationById(long): Optional<ReservationEntity>
+ saveReservation(ReservationEntity): ReservationEntity
+ updateReservation(long, ReservationEntity): ReservationEntity

JpaRepository
«interface»
repositories::UserRepository

+ delete(Entity): void
+ deleteById(ID): void
+ findAll(): List<Entity>
+ findAllById(ID): List<Entity>
+ findById(ID): Optional<Entity>
+ save(Entity): Entity

JpaRepository
«interface»
repositories::BoxRepository

+ delete(Entity): void
+ deleteById(ID): void
+ findAll(): List<Entity>
+ findAllById(ID): List<Entity>
+ findById(ID): Optional<Entity>
+ save(Entity): Entity

JpaRepository
«interface»
repositories::ToolRepository

+ delete(Entity): void
+ deleteById(ID): void
+ findAll(): List<Entity>
+ findAllById(ID): List<Entity>
+ findAllByNameContainingAndState(String, ToolState): List<ToolEntity>
+ findById(ID): Optional<Entity>
+ save(Entity): Entity

JpaRepository
«interface»
repositories::ReservationRepository

+ delete(Entity): void
+ deleteById(ID): void
+ findAll(): List<Entity>
+ findAllById(ID): List<Entity>
+ findById(ID): Optional<Entity>
+ save(Entity): Entity

Repositories

Implementation of Use Cases

UC11 - Create a reservation

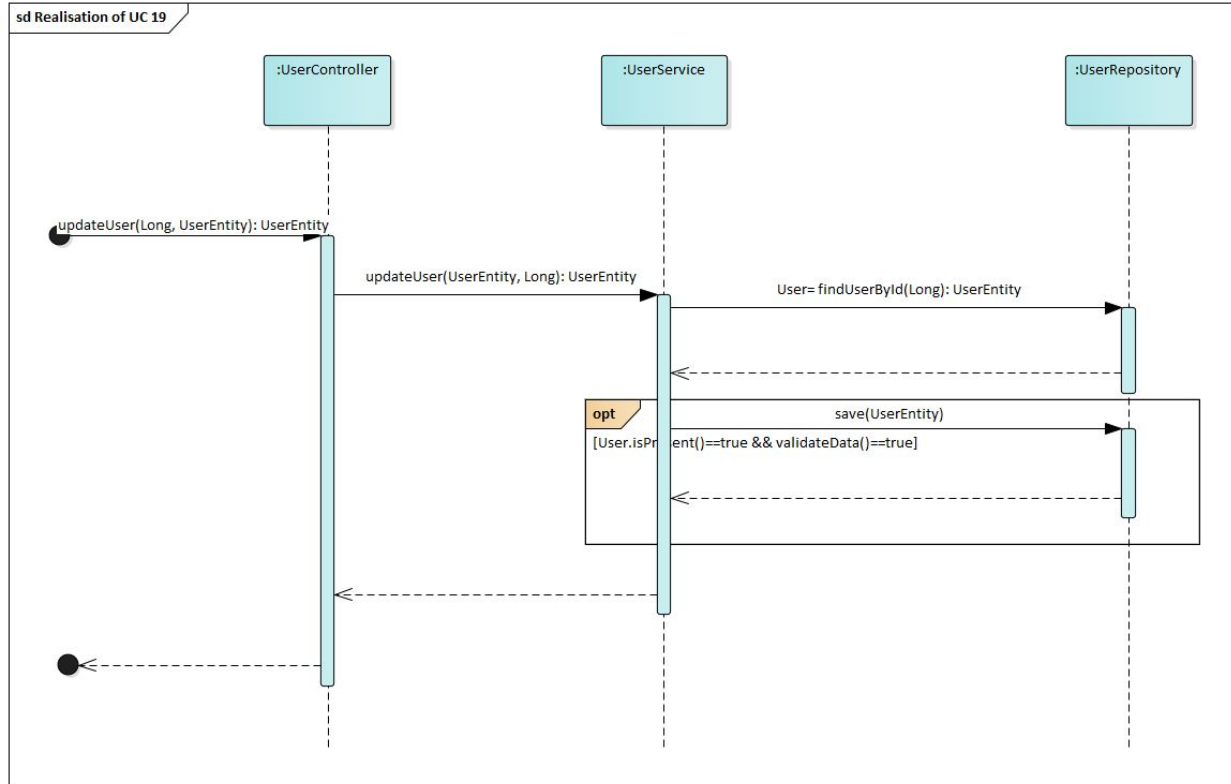# UC13 - Searching for the tool

UC19 - Change personal data

Installation Documentation

Requirements:

- My-Sql Database
- Java 8
- Maven 3.6.9
- Apt-get
- systemctl

Installation Process:

- Clone this project.
- Create Database from create.sql in DB scripts folder
- Run script install.sh with sudo

Documentation - Javadocs

toolsharing 0.0.1-SNAPSHOT API

Packages

Package	Description
cz.bisi1.toolsharing	
cz.bisi1.toolsharing.controller	
cz.bisi1.toolsharing.entity	
cz.bisi1.toolsharing.repository	
cz.bisi1.toolsharing.security	
cz.bisi1.toolsharing.service	
cz.bisi1.toolsharing.service.impl	