

Feature List

1. User management:

- User creation.
- User accounts management.
- Clients rating functionality.

2. Travels and tickets management:

- Travel creation.
- Tickets requests and approval or rejection.
- Selling tickets and creating a form.

3. Reports and statistics:

- Client, tickets, travels.

4. Notifications:

- Newly created ticket request.
- Periodical notifications for sold tickets per travel.
- Rejected travel.
- Incoming travel with unsold tickets.

Application Structure

1. MVC pattern.

2. Layered architecture, layers:

- model - entities.
- repository - responsible for all database requests.
- service - executes all the business logic.
- controller - UI interactions are handled by controllers.
- view - GUI representation of the model.

3. Technologies:

- Gradle
- Java 14, JavaFX
- JPA, Hibernate
- Postgresql
- Log4j
- JUnit
- Mockito

Planned Sprints

Sprint 1: 28.09.2020-05.10.2020:

- Use case diagrams.
- Familiarizing with the technologies.

Sprint 2: 05.10.2020-12.10.2020:

- Modeling the database.
- Model the entities and their associations.
- ER diagram (Chen model).

Sprint 3: 12.10.2020-19.10.2020:

- Implement system login (authentication, authorization).
- Implement user creation.
- Implement user account management.

Sprint 4: 19.10.2020-26.10.2020:

- Implement client rating functionality.
- Implement reports and statistics with clients.

Sprint 5: 26.10.2020-02.11.2020:

- Implement travel creation.
- Implement reports and statistics with travels.

Sprint 6: 02.11.2020-09.11.2020:

- Implement ticket requests.
- Implement ticket approval or rejection.
- Implement reports and statistics with tickets.

Sprint 7: 09.11.2020-16.11.2020:

- Implement selling of tickets and form creation.
- Implement notifications.

Sprint 8: 16.11.2020-23.11.2020:

- Implement notifications.
- Writing integration & functional tests.

Sprint 9: 23.11.2020-30.11.2020:

- Writing tests.
- Refactoring.

Sprint 10: 30.11.2020-07.12.2020:

- Documentation.
- Preparation for project defence.

Use case diagrams



