## CS 319 Object-Oriented Software Engineering

Instructor: Eray Tüzün, Teaching Assistant: Yahya Elnouby

# AdayBilgi Deliverable 5 - Final Report



## Group 1

Emine Noor
Eray İşçi
Hatice Kübra Çağlar
İbrahim Çaycı
İrem Damla Karagöz
Yiğit Özhan

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### 1. User's Guide

## **Prerequisites**

#### 1. Development Environment

- Install **Java JDK 17**+ for the backend.
- Install **Node.js** (v16 or higher) and npm for the frontend.
- Install a database tool like MySQL Workbench to connect to the database.
- o Install **Maven** (optional) for building the backend if not using the built-in wrapper.
- o Install an IDE (e.g., IntelliJ IDEA for backend, VS Code for frontend).

#### 2. Database Configuration

- Set up a MySQL instance (local or remote).
- Configure your database connection string in the backend's application.properties file.

#### 3. Environment Variables

Ensure you have configured any sensitive environment variables like JWT keys,
 SMTP credentials, or database passwords.

## **Step 1: Clone the Repository**

```
git clone https://github.com/damlakragoz/AdayBilgi_CS319.git
cd AdayBilgi_CS319

# Checkout the branches
git checkout backend_final # For backend
```

## **Step 2: Backend Setup (backend final)**

1. Navigate to the Backend Directory

cd BTO\_Application # The backend project folder

#### 2. Configure application.properties

→ Locate the application properties file under src/main/resources. Make sure it is like as follows: # JDBC URL for your MySQL database spring.datasource.url=jdbc:mysql://bto-database.cvgoaqoq62o0.us-east-1.rds.amazonaws.com /bto database # Username and password for your MySQL instance spring.datasource.username=admin spring.datasource.password=bto database # Hibernate settings spring.jpa.hibernate.ddl-auto=validate spring.jpa.show-sql=false spring.jpa.properties.hibernate.dialect=org.hibernate.dialect.MySQLDialect spring.jpa.hibernate.naming.physical-strategy=org.hibernate.boot.model.naming.PhysicalNam ingStrategyStandardImpl# Optional: Set the server port if you want a specific port for the Spring Boot application server.port=8081 # JWT and Security Configuration (Optional - Example) # Secret key for JWT token (use a strong, secure key) # jwt.secret=your secure secret key here # Expiration time for JWT token in milliseconds (e.g., 3600000 = 1 hour) jwt.secret = KzNDLS0L3lc9Y/tPM9Zrt0Qpk2+H0RzcW3ISRkE7mgg= jwt.expirationMs = 3600000# Email Configuration (Add Mail Service Config)

```
# SMTP server configuration (for example, Gmail SMTP)

spring.mail.host=smtp.gmail.com

spring.mail.port=587

spring.mail.username=btomailservice@gmail.com

spring.mail.password=addbkjjkaptkanoc

spring.mail.properties.mail.smtp.auth=true

spring.mail.properties.mail.smtp.starttls.enable=true

# Suppress Hibernate SQL logs

logging.level.org.hibernate.SQL=OFF
```

logging.level.org.hibernate.type.descriptor.sql.BasicBinder=OFF

#### 3. Build and Run the Backend

→ Using the Maven Wrapper

```
./mvnw clean install # For Linux/Mac
mvnw.cmd clean install # For Windows
./mvnw spring-boot:run
```

- → Or directly in IntelliJ IDEA
  - Open the backend project in IntelliJ.
  - Navigate to BtoApplication.java (main class) and run it.

#### 4. Verify Backend

→ The backend will run on http://localhost:8081.

## **Step 3: Frontend Setup (frontend\_final)**

- 1. Clone the github to another directory
- 2. Checkout the frontend final branch by running:

git checkout frontend\_final # For frontend

- 3. Navigate to the BTO Application folder: ls BTO Application
- 4. Navigate to 319 Frontend folder: Is 319 Frontend
- 5. Install Dependencies npm install
- 6. Build the Frontend for Production
  - Run the following command to create a production build: npm run build
  - The built files will be available in the build folder.
- 7. Install the missing dependencies:

npm install react-chartjs-2 chart

If there are any other missing dependencies, you can install them as well.

- 8. Serve the Application Locally
  - npm start
    - The frontend will run on http://localhost:3000.
    - Make sure it runs on http://localhost:3000. Sometimes npm suggests it to be runned on a different port. If you want to change the port you must modify BTO\_Application/src/main/java/com/CS319/BTO\_Application/Config/WebConfig.ja va file in the backend final branch from

.allowedOrigins("http://localhost:3000") to your desired port.

## **Step 4: Running the Full Application**

- 1. Start the **Backend** 
  - Ensure the backend is running on http://localhost:8081.
- 2. Start the **Frontend** 
  - Serve the React application on http://localhost:3000.
- 3. Open the frontend in your browser

- Navigate to <a href="http://localhost:3000">http://localhost:3000</a>.
- 4. When logging into user accounts, each user's password is edited to be "{FirstName}123" for testing. You can check the email accounts on the User table.

### 2. Work Allocation

**Note:** Code contributions can be seen on our repository on different branches.

#### 2.1 Emine Noor

- Developed Feedback, Profile and Payment functionalities on the backend.
- Designed mockup for Coordinator and updated them during the second iteration.
- Worked on frontend pages, including Homepage, Log In, Counselor Sign Up, Profile Upload, Settings, Individual Application, Counselor, Header, and Sidebar. Also added several pop-ups.
- Contributed to Sequence, Class, Detailed Class Diagrams (including edits), and worked on Design Patterns for Deliverable 4.
- Set up the RDS Database.

#### 2.2 Eray İşçi

- Developed the Tour, Priority Management, Tour Application, and User Authentication functionalities. Worked especially on the priority algorithm for tour allocations.
- Designed mock-ups for Counselor and updated them during the second iteration.
- Worked on many frontend pages.
- Coordinated the team for GitHub usage and handled backend/frontend merges.
- Contributed to Activity, Class, Detailed Class, and State Diagrams.
- Worked on Design Patterns for Deliverable 4.

#### 2.3 Hatice Kübra Çağlar

- Implemented Fair and Fair Invitation functionalities and Executive operations in the backend.
- Contributed to Activity, State, Sequence, Use Case, Class, and Detailed Class Diagrams. Designed mockup for Executive.
- Worked on Design Patterns for Deliverable 4 and edited Deliverable 3.
- Added several pop-ups and edited frontend pages, including headers and sidebars.

#### 2.4 İbrahim Çaycı

- Worked on Use Case, Sequence, Class, and Detailed Class Diagrams, also the Use Case Textual Descriptions. Designed UI for Advisor.
- Implemented functionalities for Statistics, Notifications, and Mail Service on the backend.
- Added the Statistics, Notifications View, Change Password and Forgot Password Page.
- Added Contract comments to the backend.

#### 2.5 İrem Damla Karagöz

- Developed functionalities for Tour, Tour Application, User Management (users, their methods etc.), and Admin.
- Worked on many frontend pages, and arranged layouts for different user types.
- Set up the database and connected most frontend pages to the backend.
- Designed the coordinator ui mockups.
- Worked on Sequence, Detailed Class, and Class Diagrams.
- Worked on Design Patterns for Deliverable 3.
- Edited the Demo video

#### 2.6 Yiğit Özhan

- Developed functionalities for Puantage, Withdraw Acceptance/Rejection, and Activity Entrance.
- Designed mock-up for Tour Guide and updated it in the second iteration.
- Worked on State, Activity and Use Case diagrams.
- Added All Available Tours and General Puantage Table pages. Made some small changes on navigation menus.