

Otelier Backend Assignment - Java

Tech Stack

- Java Spring Boot
- MongoDB
- Supabase/Auth0

Build a small, secure backend service for a hospitality scenario (hotel bookings) using **Java Spring Boot + MongoDB Atlas + Supabase/Auth0** and Implement **APIs** then deploy them to any cloud platform.

Requirements

1. **Backend:** Java 17+, Spring Boot, Spring Web, Spring Data MongoDB, Spring Security.
2. **Authentication:** Use Supabase or Auth0 for JWT-based login.
 - Validate tokens (issuer, signature, expiry).
 - Extract sub (userId) and role/scope claims.
3. **Database:** MongoDB Atlas (candidate sets up own cluster).
4. **Endpoints:**
 - **GET /api/hotels/{hotelId}/bookings** → list bookings (optionally filter by date range).
 - **POST /api/hotels/{hotelId}/bookings** → create a booking with conflict detection. Requires role staff/reception.
 - When a booking is made, please notify the support team via **email** OR **slack**
5. **Deployment:** Cloud of candidate's choice (Heroku, Render, Railway, Fly.io, AWS, etc.).
6. **Deliverables:**
 - Public Git repo + README.md
 - A working deployment link.

Bonus

- Structured logging
- Swagger/OpenAPI docs
- CI/CD pipeline
- Dockerization

Evaluation Rubric:

Core: Working app, authentication, GET+POST endpoints, Mongo Atlas, deployment, clear README file.

Quality: Code structure, error handling, logging, deployment.

Deadline: 48 hours for submission. Ideally it will take 6-8 hours of total development time using Cursor or similar IDE.

Tools: Please feel free to use AI Tools (Cursor/ChatGPT) but the candidate must be able to explain and debug their solution.

Notes:

1. Please treat this as a mini-product and follow the best development practices.
2. Nothing is mandatory from the bonus section; you can do as much as possible.
3. If you are stuck somewhere or taking a particular approach, please feel free to make some assumptions and mention the same while submitting OR during the interview.