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Project Progression

Project Name: Library tracking system

In the second week we have done some part such as:

- **update table schema**
 - change Id datatype from varchar to bigint
- **AuthController**
 - Created REST controller for authentication.
 - Exposed endpoints for **login** and **register**.
 - Integrated with **UserService**.
- **Login**
 - **LoginRequest**: username/email & password DTO implemented.
 - **LoginResponse**: returns auth result (message / token / user info).
 - Validation and error handling added.
- **Register**
 - **RegisterRequest**: user input DTO (username, password, email, etc.).
 - **RegisterResponse**: registration status and user data.
 - Password encoding applied before saving.
- **UserService**
 - Business logic for login and registration.
 - User lookup and creation implemented.
 - Connected to repository and security components.
- **JwtFilter**
 - Implemented JWT authentication filter.
 - Extracts token from request header.
 - Validates JWT and sets authentication in SecurityContext.
 - JwtProperties

- Configured JWT settings (secret key, expiration time).
- Loaded values from application.yml / properties.
- **JwtUtil**
 - Implemented JWT generation and validation logic.
 - Extracts username and checks token expiration.
 - Used by AuthController and JwtFilter.
 - SecurityConfig
 - Configured Spring Security with JWT.
 - Disabled CSRF for REST API.
 - Defined public and protected endpoints.
 - Registered JwtFilter in security filter chain.