

Field	Description
Introduction	This sequence diagram illustrates the technical exchange of messages during the login process, emphasizing the security handshake between the Frontend, Backend, and Database.
Objectives	<ol style="list-style-type: none">1. To define the exact API endpoints and parameters for authentication.2. To visualize the return of security tokens (e.g., JWT) and user role data.3. To confirm the sequence of database lookups for password verification.
Functional Requirements	<ol style="list-style-type: none">1. The Frontend must submit credentials via a secure POST request.2. The Backend must retrieve the password hash from the Database and compare it.3. On success, the Backend must return an HTTP 200 OK status with the user's role.
Non-Functional Requirements	<p>Security: All login traffic must be encrypted via HTTPS/TLS.</p> <p>Performance: Database index usage should be optimized for quick email lookups.</p>