Field	Description
Introduction	This sequence diagram details the technical message flow for user registration, mapping the interaction between the User, Frontend, Backend API, and Database.
Objectives	1. To visualize the order of operations for creating a new account. 2. To define the specific API calls and database queries required. 3. To illustrate how the system handles errors like duplicate emails.
Functional Requirements	1. The Frontend must send a POST /api/register request with user details. 2. The Backend must query the Database to ensure the email is unique. 3. The Database must store the new user record upon successful validation.
Non-Functional Requirements	**Security:** User passwords must be hashed before being sent to the database. **Latency:** The API response time for registration should not exceed 500ms.