

Field	Description
Introduction	<p>This sequence diagram illustrates the backend logic for creating a new proposal. It details the API endpoint interaction and the specific database constraints checked during the process.</p>
Objectives	<p>1. To define the POST /api/proposals payload structure.</p> <p>2. To visualize the "Check Duplicate" query sequence before the "Insert" query.</p> <p>3. To confirm the notification trigger sent to the Client.</p>
Functional Requirements	<p>1. The Backend must authenticate the user and ensure they are a Freelancer.</p> <p>2. The Backend must execute a COUNT() query to verify zero prior bids for this job.</p> <p>3. The Database must insert the new Proposal record and link it to the Job ID.</p>
Non-Functional Requirements	<p><b>Concurrency:</b> The system must handle race conditions if a user double-clicks the submit button (idempotency).</p> <p><b>Data Validation:</b> Inputs must be sanitized to prevent XSS attacks in the cover letter.</p>