

Field	Description
<b>Introduction</b>	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.
<b>Objectives</b>	<ol style="list-style-type: none"><li>1. To define the POST /api/proposals payload structure.</li><li>2. To visualize the "Check Duplicate" query sequence before the "Insert" query.</li><li>3. To confirm the notification trigger sent to the Client.</li></ol>
<b>Functional Requirements</b>	<ol style="list-style-type: none"><li>1. The Backend must authenticate the user and ensure they are a Freelancer.</li><li>2. The Backend must execute a COUNT() query to verify zero prior bids for this job.</li><li>3. The Database must insert the new Proposal record and link it to the Job ID.</li></ol>
<b>Non-Functional Requirements</b>	<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>