**Architectural Diagram** illustrating the communication between our microservices:

* **User Service (Spring Boot, PostgreSQL)**
  + Provides user authentication and user-related queries.
* **Event Service (Spring Boot, PostgreSQL)**
  + Manages event listings and availability.
* **Booking Service (Express.js, PostgreSQL, RabbitMQ)**
  + Checks event availability, processes bookings, and updates events.
  + Publishes booking confirmation events to RabbitMQ.
* **Notification Service (Express.js, MongoDB, RabbitMQ)**
  + Listens to RabbitMQ for booking events and sends notifications.

Communication:

* **REST API Calls:** Booking Service → User Service (to validate users).
* **REST API Calls:** Booking Service → Event Service (to check event availability & update tickets).
* **Message Queue (RabbitMQ):** Booking Service → Notification Service (for booking confirmations).