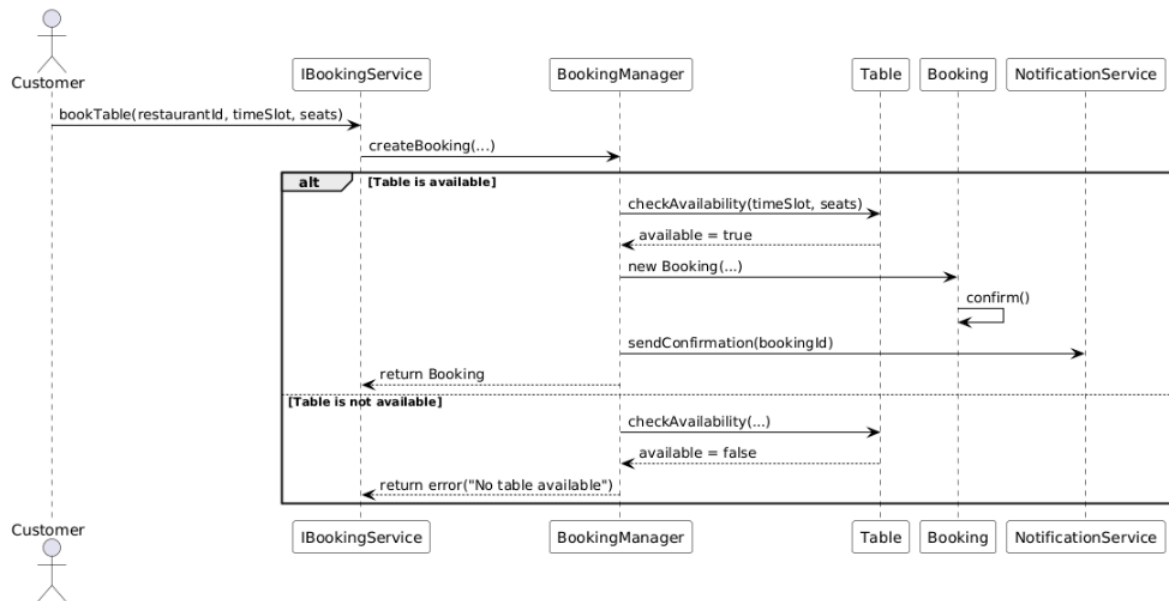


Resit Behavior Model – Booking Service



The UML sequence diagram displays the internal behaviour of the Booking Service when processing a booking request. It is also consistent with the structural model in Task 5(a) that was the booking service and includes interactions between `IBookingService`, `BookingManager`, `Table`, `Booking`, and `NotificationService`.

When the customer initiates a `bookTable` request, the service validates the request and checks for available tables through the `Table` object. An alternative fragment (`alt`) is used to show two scenarios: if a table is available, a new `Booking` object is created, confirmed, and a confirmation is sent via the `NotificationService`; otherwise, an error is returned to the user. The message arguments, return values, and conditions are clearly specified, and the diagram demonstrates a complete internal behaviour flow for both success and failure cases, using appropriate UML semantics and syntax.