PNR Aggregator Service V1

UML Sequence Diagram - Get Booking by PNR

Participants: Client, BookingController, BookingService, TripVerticle, BaggageVerticle, ETicketVerticle, MongoDB, PnrEventVerticle, WebSocket Client

- Client → BookingController: GET /api/v1/booking/{pnr}
- BookingController → BookingService: getBookingByPnr(pnr)
- BookingService → TripVerticle: EventBus: fetch trip
- BookingService → BaggageVerticle: EventBus: fetch baggage
- TripVerticle → MongoDB: query trips by PNR
- MongoDB → TripVerticle: Trip document
- BookingService → ETicketVerticle: EventBus: fetch e-tickets
- BaggageVerticle → MongoDB: query baggage by PNR
- MongoDB → BaggageVerticle: Baggage allowances
- ETicketVerticle → MongoDB: query tickets (pnr+ pax)
- MongoDB → ETicketVerticle: Ticket docs (optional)
- TripVerticle → BookingService: Trip result
- BaggageVerticle → BookingService: Baggage result
- ETicketVerticle → BookingService: E-tickets (per passenger)
- *Aggregate & transform to BookingResponse*
- BookingService → PnrEventVerticle: publish "pnr.fetched"
- PnrEventVerticle → WebSocket Client: broadcast PNR event
- BookingService → BookingController: BookingResponse
- BookingController → Client: HTTP 200 + JSON booking