# **Self-Validation Checklist for Day 1 & Day 2**

### **Day 1: Business Focus Outcome Checklist**

**Objective:** Define the foundation of my **luxury car rental marketplace**.

✅ **Business Goals:**

* Offer a premium luxury car rental experience.
* Provide flexible rental packages (daily, weekly, monthly).
* Ensure a seamless booking process with secure payments (Stripe/PayPal).

✅ **Market Research:**

* Analyzed demand for luxury rentals in key locations.
* Researched competitors, pricing, and customer expectations.
* Identified target audience: business professionals, tourists, and event organizers.

✅ **Data Schema Draft:**

* **Entities Defined:**
  + **Users:** Customers & rental history.
  + **Cars:** Details, pricing, images, availability.
  + **Bookings:** Rental duration, user details, payment status.
  + **Payments:** Transaction records.
  + **Admin Panel:** Car management, booking approvals, payment tracking.

✅ **Submission from Day 1:**📂 Uploaded business goals, market research, and schema draft.

### **Day 2: Technical Planning Outcome Checklist**

**Objective:** Build the technical foundation of my marketplace.

✅ **Technical Plan:**

* **Frontend:** Next.js + Tailwind CSS.
* **Backend & CMS:** Sanity.io for car listings and booking data.
* **Database:** Managed in Sanity Studio.
* **Authentication:** Secure user login/signup.
* **Third-Party Integrations:**
  + **Stripe/PayPal:** Payment processing.
  + **Google Maps API:** Rental location tracking.
  + **Twilio:** SMS notifications for booking updates.
  + **Cloudinary:** High-quality car image storage.

✅ **Workflows:**1️⃣ **User Registration:** Signup/login, stored in Sanity.  
2️⃣ **Car Browsing & Selection:** Fetch luxury cars, filter options.  
3️⃣ **Booking Process:** Select car, duration, pay via Stripe/PayPal.  
4️⃣ **Admin Management:** Add/update cars, track bookings & payments.

✅ **API Requirements:**

* **GET /cars** → Fetch available luxury cars.
* **POST /bookings** → Create a rental booking.
* **GET /booking-status** → Check booking details.
* **POST /payments** → Process payment.

✅ **Sanity Schema:**

* **Cars Collection:** Brand, model, year, images, price, availability.
* **Bookings Collection:** Car ID, user ID, rental period, payment status.
* **Users Collection:** Name, contact info, rental history.

✅ **Collaboration Notes:**

* Adjusted API design based on feedback.
* Refined booking process for better user experience.

✅ **Submission from Day 2:**📂 Uploaded technical document with architecture, workflows, API details, and schema.

### **Final Notes:**

🔹 **Everything is documented and submitted in the repository under "Documentation".**🔹 **Diagrams are clear and formatted professionally.**