# Hackathon 3-Day 2

## **Marketplace Technical Foundation**

#### 1. Technical Requirements

#### Frontend

## **Technology Stack**

• Framework: Next.js

A React-based framework that enables server-side rendering (SSR) and static site generation (SSG), perfect for building high-performance and SEO-friendly applications.

• **UI Library:** shadcn/ui

Provides pre-built, customizable UI components that work seamlessly with Tailwind CSS.

• Styling Framework: Tailwind CSS

A utility-first CSS framework for fast and responsive design.

# 1. Rental Listing Page

- Features: Display all rentable Car with filters for availability and pricing.
- Libraries/Features to Use:
- Dynamic routes (pages/rentals/[id].tsx) for individual Car details.
- shadcn/ui components like Card and Filter.

## 1. Rental Details Page

- Features: Show detailed information about the selected Car, including pricing and rental terms.
- Libraries/Features to Use:
- shaden/ui components like Modal and Accordion.

## 1. Rental Cart Page

- Features: View selected rental items and finalize booking details.
- Libraries/Features to Use:
- shadcn/ui components for form handling and summary display.

# **Rental Schema:**

```
export default {
 name: 'rental',
 type: 'document',
 fields: [
  { name: 'name', type: 'string', title: 'Car Name' },
  { name: 'rentalPrice', type: 'number', title: 'Rental Price per Hour' },
  { name: 'availability', type: 'boolean', title: 'Availability' },
  { name: 'description', type: 'text', title: 'Description' },
  { name: 'image', type: 'image', title: 'Car Image' },
  { name: 'rentalTerms', type: 'text', title: 'Rental Terms' }
};
Rental Order Schema:
export default {
name: 'rentalOrder',
type: 'document',
 fields: [
  { name: 'customer', type: 'reference', to: [{ type: 'customer' }], title: 'Customer' },
  { name: 'Car', type: 'reference', to: [{ type: 'rental' }], title: 'Car' },
  { name: 'rentalDuration', type: 'number', title: 'Rental Duration (Hours)' },
```

# **Third-Party APIs**

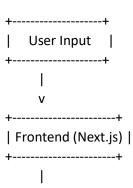
**}**;

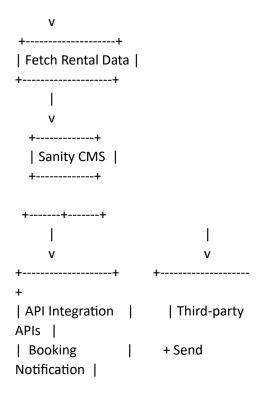
## **APIs Required:**

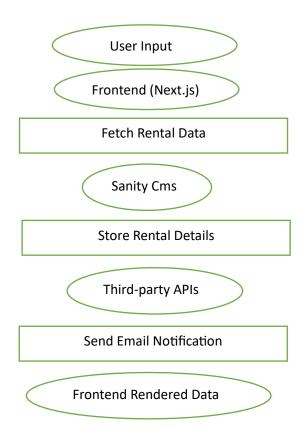
1. Payment Gateway API: For secure transaction processing.

{ name: 'total', type: 'number', title: 'Total Amount' }, { name: 'status', type: 'string', title: 'Rental Order Status' }

- 2. Shipment Tracking API: To provide real-time shipment updates.
- 3. **Email Notification API**: For sending order confirmations.
- 4. **Booking Availability API**: To check Car rental availability.







**Display Rentel Option** 

#### Workflows:

## **Rental Data Fetching:**

- 1. Frontend requests rental car data from Sanity CMS.
- 2. Sanity CMS retrieves and returns the data in JSON format.

# **Rental Booking Processing:**

- 1. Frontend sends rental booking details to the API endpoint.
- 2. API saves the booking in Sanity CMS.
- 3. Notification and payment processing APIs are triggered.

# **Planned Endpoints:**

```
/rentals (GET)
```

- **Description**: Fetch all available rental Cars.
- Response Example:

/rentalOrders (POST)

- **Description**: Save new rental booking details.
- Request Example:

```
{
  "customerId": "123",
```

```
"Car": "1",
"rentalDuration": 5,
"total": 2500
}
```

# /shipment (GET)

- **Description**: Fetch the shipment status for an order.
- Response Example:

```
{
    "orderId": "123",
    "status": "In Transit"
}
```

#### **About Cars**

MARK Rent A Car is an innovative platform offering rental-commerce solutions for luxury Cars. Whether you want Car rent one for special occasions, MARK provides a seamless experience with detailed listings, transparent pricing, and reliable customer support. Our mission is to redefine convenience and exclusivity in the luxury aviation market.

