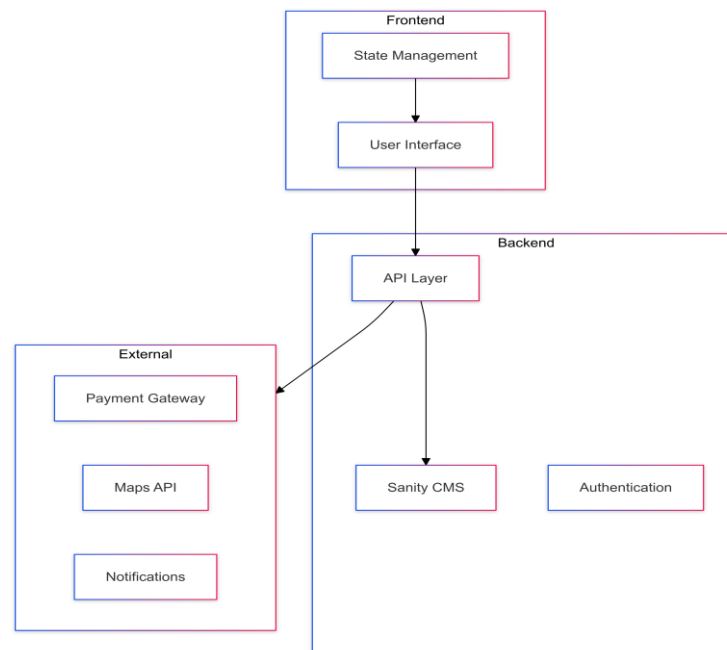


MORENT Car Rental Platform

Technical Specification Document

1. Technical Requirements

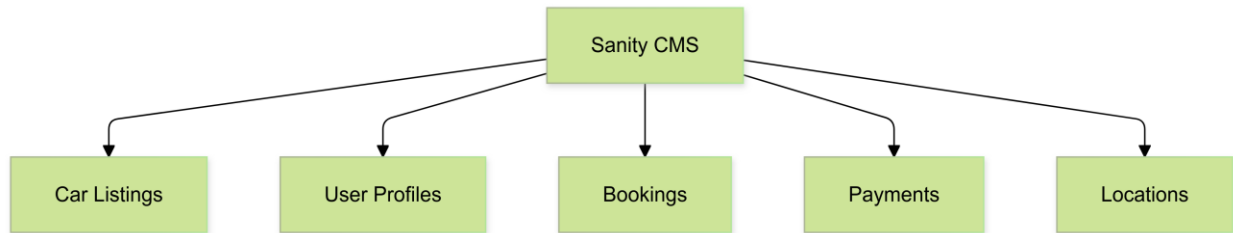
Frontend Requirements



Core Requirements:

- **Responsive Design**
 - Mobile-first approach
 - Device compatibility optimization
 - Flexible layout system
- **Key Pages Implementation**
 - Home page with search functionality
 - Category browsing interface
 - Detailed car rental views
 - Secure payment processing
 - Administrative dashboard

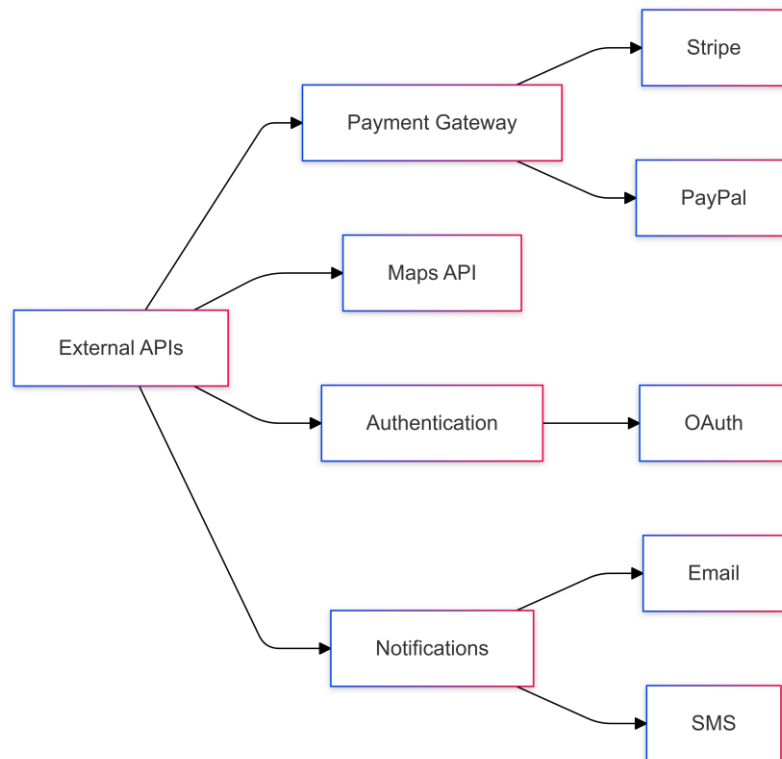
Backend Requirements (Sanity CMS)



Content Management:

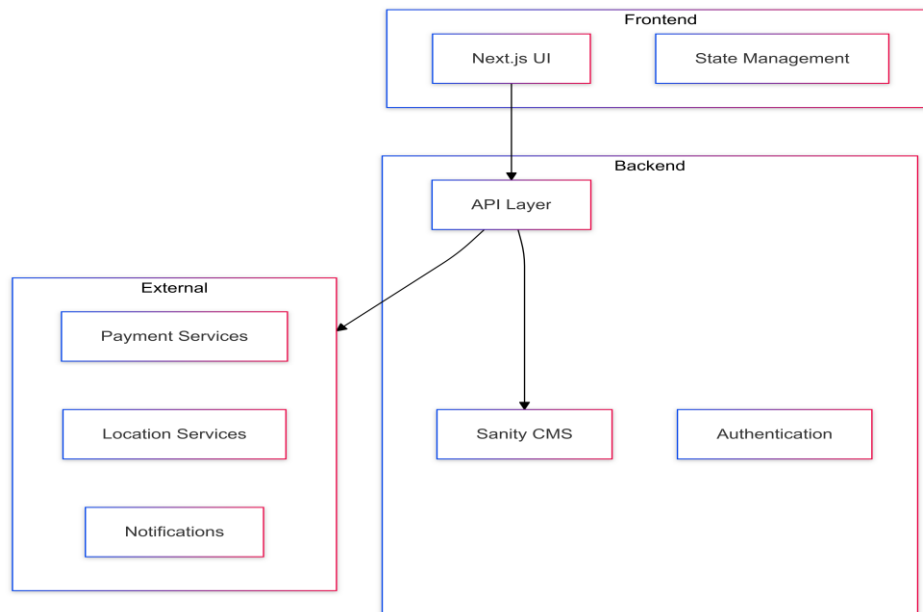
- Car listings and details
- User profile management
- Booking record tracking
- Payment information
- Location data handling

Third-Party Integrations



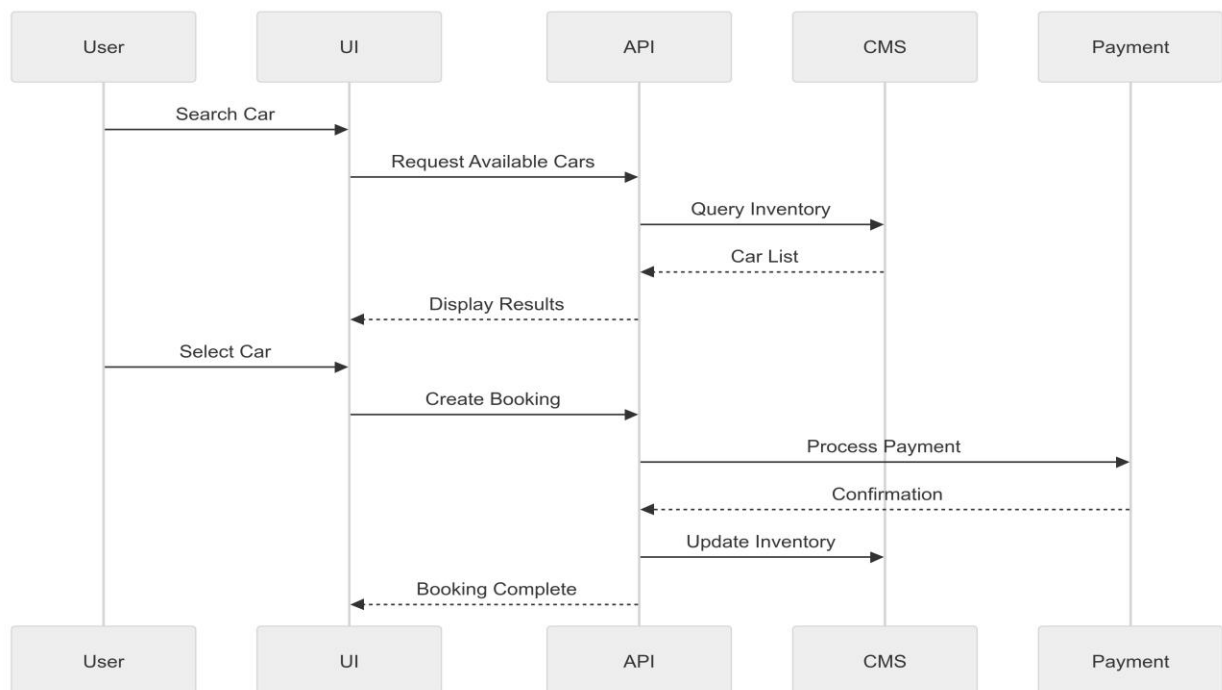
2. System Architecture

High-Level Architecture



Core Workflows

Booking Process



3. API Specification

Endpoints Overview

// Car Management

GET /api/cars

```
Query: {  
  location: string  
  dates: DateRange  
  category?: string  
  price_range?: PriceRange  
}
```

GET /api/cars/:id

Response: CarDetails

POST /api/bookings

```
Body: {  
  carId: string  
  userId: string  
  dates: DateRange  
  location: string  
}
```

// User Management

POST /api/users

```
Body: {  
  name: string  
  email: string  
  license: string  
  phone: string  
}
```

// Payment Processing

POST /api/payments

```
Body: {  
  bookingId: string  
  amount: number  
  method: PaymentMethod  
}
```

4. Data Schema

Car Schema

```
export default {  
  name: 'car',  
  type: 'document',  
  fields: [  
    {  
      name: 'productId',  
      type: 'string',  
      title: 'Product ID'  
    },  
    {  
      name: 'model',
```

```
    type: 'string',
    title: 'Car Model'
  },
  {
    name: 'category',
    type: 'string',
    title: 'Category'
  },
  {
    name: 'rentalPrice',
    type: 'number',
    title: 'Rental Price'
  },
  {
    name: 'features',
    type: 'array',
    of: [{type: 'string'}]
  },
  {
    name: 'availability',
    type: 'boolean'
  },
  {
    name: 'location',
    type: 'reference',
    to: [{type: 'location'}]
  }
]
}
```

Booking Schema

```
export default {
  name: 'booking',
  type: 'document',
  fields: [
    {
      name: 'bookingId',
      type: 'string'
    },
    {
      name: 'customerId',
      type: 'reference',
      to: [{type: 'customer'}]
    },
    {
      name: 'carId',
      type: 'reference',
      to: [{type: 'car'}]
    },
    {
      name: 'startDateTime',
      type: 'datetime'
    }
  ]
}
```

```
    },  
    {  
      name: 'endDateTime',  
      type: 'datetime'  
    },  
    {  
      name: 'totalCost',  
      type: 'number'  
    },  
    {  
      name: 'status',  
      type: 'string',  
      options: {  
        list: [  
          'pending',  
          'confirmed',  
          'active',  
          'completed',  
          'cancelled'  
        ]  
      }  
    }  
  ]  
}
```