



# Hotel PMS “Paseo Las Mercedes” - Project Summary

## Project Overview

- **Hotel Name:** Paseo Las Mercedes
- **Project Type:** Complete Hotel Property Management System (PMS)
- **Location:** /home/ubuntu/hotel\_pms\_paseo\_las\_mercedes
- **Status:**  PRODUCTION READY - All 9 phases completed
- **Current Version:** v9.0
- **Last Checkpoint:** Sistema completo 9 fases listo producción (Oct 1, 2025)
- **Build Status:**  Successful (67 pages generated)

## Technical Stack

- **Framework:** Next.js 14 with TypeScript
- **Database:** PostgreSQL with Prisma ORM
- **Authentication:** NextAuth.js with JWT
- **UI Library:** Radix UI components with Tailwind CSS
- **Package Manager:** Yarn
- **Styling:** Tailwind CSS with custom components

## Completed Development Phases

### Phase 1: Foundation and Configuration

- Project initialization and structure
- Database setup with Prisma
- Authentication system with NextAuth.js
- Basic UI components and layout
- Environment configuration

### Phase 2: Room Management

- Room CRUD operations API ( /api/rooms/ )
- Room types and categories management
- Room availability tracking
- Room overview dashboard
- Interactive room grid component

### Phase 3: Reservation System

- Complete reservation API ( /api/reservations/ )
- Guest management system ( /api/guests/ )
- Booking creation and management
- Availability checking algorithms

- Reservation calendar interface

## Phase 4: Check-in/Check-out Process

- Check-in API and UI ( /api/checkin/ , /checkin )
- Check-out API and UI ( /api/checkout/ , /checkout )
- Guest services management
- Room assignment workflows
- Billing integration

## Phase 5: Reporting & Analytics

- Comprehensive reporting system ( /api/reports/ )
- Analytics dashboard ( /reports )
- Financial reports and occupancy metrics
- Revenue tracking and forecasting
- Data visualization components

## Current Database Schema (Prisma)

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### Core Models

User - Authentication **and** staff management  
Room - Room inventory with types **and** amenities  
RoomType - Room categorization  
Guest - Guest information **and** history  
Reservation - Booking management  
CheckIn/CheckOut - Arrival/departure tracking  
Service - Additional services **and** requests  
Report - Analytics **and** reporting data

### Key Relationships

- Reservations linked to Guests and Rooms
- Check-in/Check-out tied to Reservations
- Services connected to Guests and Reservations
- Historical tracking for all operations

## Key Application Features

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### Dashboard ( /dashboard )

- Real-time occupancy overview
- Revenue summaries
- Quick action buttons
- Key performance indicators

### Room Management ( /rooms )

- Visual room grid with status indicators
- Room details and amenities management
- Availability calendar
- Maintenance tracking

## Reservations ( /reservations )

- Advanced booking interface
- Guest search and selection
- Availability checking
- Reservation modification tools

## Check-in/Check-out ( /checkin , /checkout )

- Guest arrival processing
- Room key assignment
- Document verification
- Bill settlement and payment

## Reporting ( /reports )

- Occupancy analytics
- Revenue reports
- Guest demographics
- Performance dashboards

# Technical Implementation Details

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## API Structure

```
/api/  
├── auth/ - Authentication endpoints  
├── rooms/ - Room management APIs  
├── reservations/ - Booking system APIs  
├── guests/ - Guest management APIs  
├── checkin/ - Check-in process APIs  
├── checkout/ - Check-out process APIs  
├── services/ - Additional services APIs  
└── reports/ - Analytics and reporting APIs
```

## UI Components

```
/components/  
├── ui/ - Reusable UI components (Radix-based)  
├── dashboard/ - Dashboard-specific components  
├── rooms/ - Room management components  
├── reservations/ - Booking interface components  
├── checkin/ - Check-in process components  
├── checkout/ - Check-out process components  
└── reports/ - Analytics and reporting components
```

## Key Configuration Files

- `prisma/schema.prisma` - Database schema
- `lib/auth-options.ts` - Authentication configuration
- `lib/prisma.ts` - Database connection
- `.env` - Environment variables (DATABASE\_URL, NEXTAUTH\_SECRET, etc.)

## Current Project State

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- ☒ All APIs functional and tested
- ☒ Database schema complete and seeded
- ☒ Authentication system working
- ☒ All UI components implemented
- ☒ Navigation and routing complete
- ☒ Responsive design implemented
- ☒ Error handling in place

## Recent Checkpoints Saved

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1. "Room management functionality implemented"
2. "Reservation system Phase 3 completed"
3. "Check-in checkout system implemented"
4. "Reporting and analytics system"

## Development Setup

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```
cd /home/ubuntu/hotel_pms_paseo_las_mercedes
yarn install
yarn dev # Starts development server on localhost:3000
yarn build # Production build
```

## Environment Variables Required

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- `DATABASE_URL` - PostgreSQL connection string
- `NEXTAUTH_URL` - Application URL
- `NEXTAUTH_SECRET` - Authentication secret
- `ABACUSAI_API_KEY` - LLM API access (if needed)

## Areas for Future Enhancement

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1. **Payment Integration** - Stripe/PayPal integration for billing
2. **Housekeeping Module** - Room cleaning and maintenance scheduling
3. **Inventory Management** - Hotel supplies and amenities tracking
4. **Staff Management** - Employee scheduling and task assignment
5. **Guest Communication** - Automated emails and notifications
6. **Mobile Responsiveness** - Enhanced mobile interface
7. **Multi-language Support** - Internationalization
8. **Advanced Analytics** - ML-based insights and predictions

## Common Commands for Continuation

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```
# Test the application
cd /home/ubuntu/hotel_pms_paseo_las_mercedes && yarn build

# Create new checkpoint
# Use build_and_save_nextjs_project_checkpoint tool

# Add new features
# Use file_str_replace or batch_file_write tools

# Database updates
npx prisma db push
npx prisma generate
```

## Notes for Next Developer

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- The project follows a modular structure with clear separation of concerns
- All major functionalities are implemented and working
- Database is properly seeded with sample data
- Authentication is configured and functional
- UI is consistent and follows modern design patterns
- Code is TypeScript-compliant with proper error handling

The system is production-ready and can handle typical hotel operations for a mid-size property like “Paseo Las Mercedes”.