

# Pavilion360 V2.0 - Architecture Documentation

**Version:** 2.0.0

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**Status:** Planning Phase

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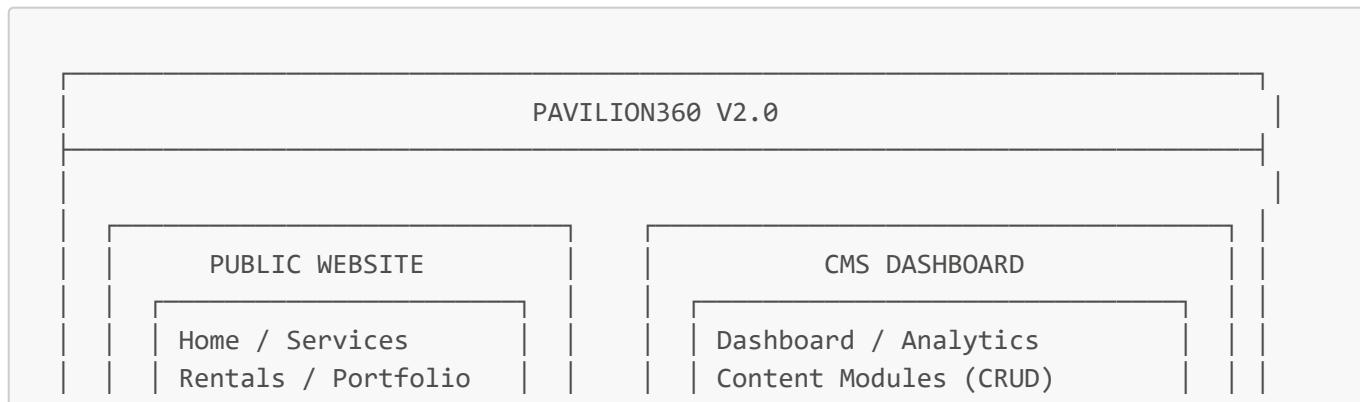
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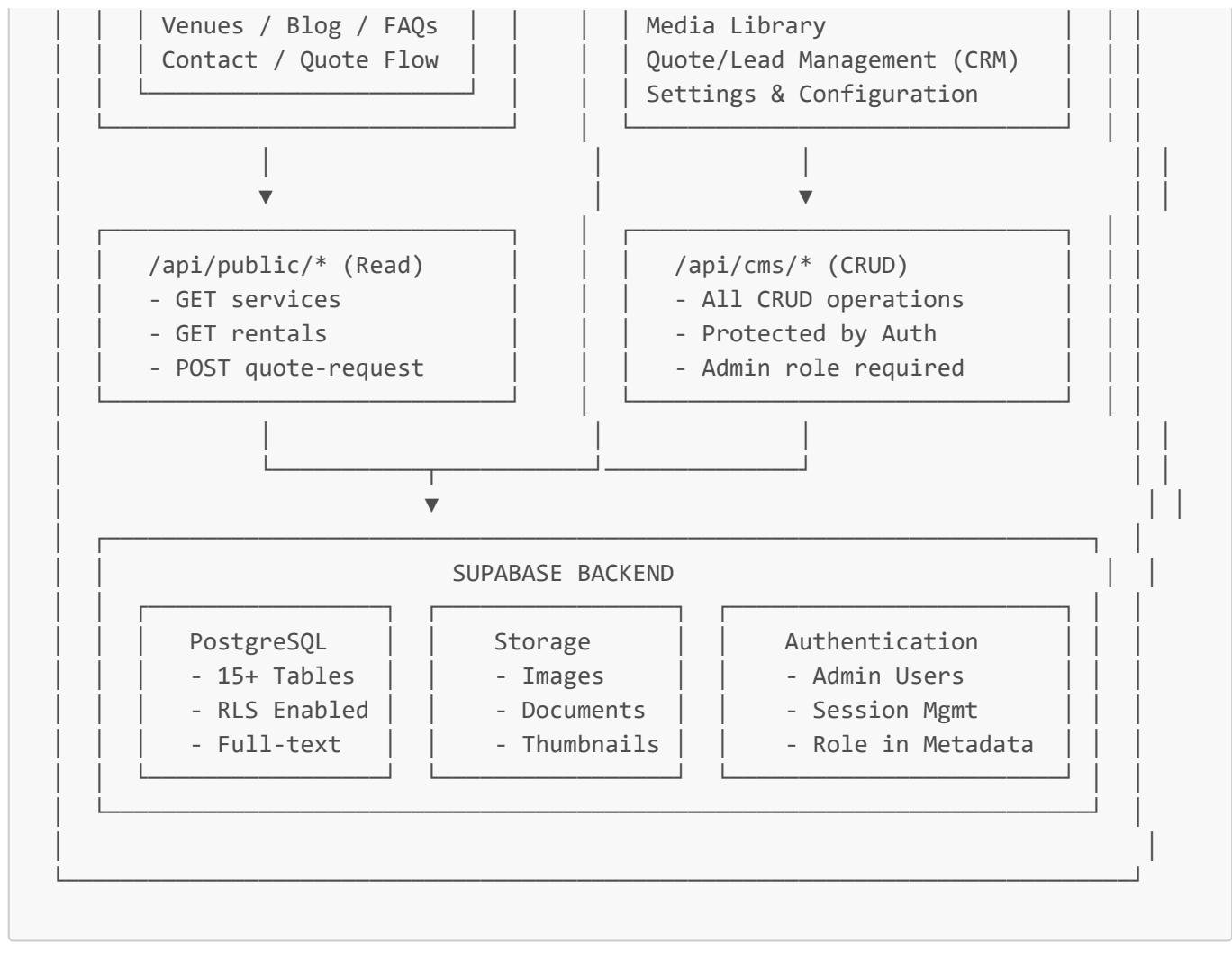
## Overview

Pavilion360 V2.0 transforms the existing static marketing website into a fully data-driven platform with an integrated Content Management System (CMS). The architecture emphasizes:

- **Data-Driven Content:** All content managed via Supabase PostgreSQL
- **Premium CMS Interface:** Mobile-first, animated, templated design
- **Modular Architecture:** Clear separation between public site and CMS
- **Type Safety:** End-to-end TypeScript with Zod validation
- **Performance:** Optimized queries with TanStack Query caching
- **Lightweight CRM:** Quote request management integrated with contact flow

## High-Level Architecture Diagram





## Technology Stack

### Core Framework

Technology	Version	Purpose
Next.js	16.x	React framework with App Router
React	19.x	UI library
TypeScript	5.x	Type safety

### Backend & Database

Technology	Version	Purpose
Supabase	Latest	Backend-as-a-Service
PostgreSQL	15.x	Primary database (via Supabase)
Supabase Auth	Latest	Authentication
Supabase Storage	Latest	File/image storage

### Data & State Management

<b>Technology</b>	<b>Version</b>	<b>Purpose</b>
TanStack Query	5.x	Server state management & caching
React Hook Form	7.x	Form state management
Zod	3.x	Schema validation

## UI & Styling

<b>Technology</b>	<b>Version</b>	<b>Purpose</b>
Tailwind CSS	4.x	Utility-first CSS
Radix UI	Latest	Accessible primitives
Framer Motion	12.x	Animations
Lucide React	Latest	Icons
Sonner	1.x	Toast notifications
TipTap	Latest	Rich text editor

## Development Tools

<b>Technology</b>	<b>Purpose</b>
ESLint	Code linting
Prettier	Code formatting
pnpm	Package manager

## System Architecture

### Directory Structure

```
pavilion360/
  └── app/
    ├── (public)/
    │   ├── page.tsx
    │   ├── about/
    │   ├── services/
    │   │   ├── page.tsx
    │   │   └── [slug]/page.tsx
    │   ├── rentals/
    │   │   ├── page.tsx
    │   │   └── [slug]/page.tsx
    │   ├── portfolio/
    │   │   ├── page.tsx
    │   │   └── [slug]/page.tsx
    │   └── venues/
```

# Public routes (grouped)  
# Home

```
|- blog/
  |- page.tsx
  |- [slug]/page.tsx
|- faqs/
|- resources/
|- contact/

|- (cms)/          # CMS routes (protected)
  |- layout.tsx    # CMS shell layout
  |- cms/
    |- page.tsx      # Dashboard
    |- services/
      |- page.tsx      # List
      |- new/page.tsx   # Create
      |- [id]/
        |- page.tsx      # Detail/View
        |- edit/page.tsx # Edit
    |- rentals/
    |- portfolio/
    |- venues/
    |- testimonials/
    |- faqs/
    |- blog/
    |- team/
    |- quotes/         # CRM - Quote requests
    |- inquiries/     # CRM - Contact form submissions
    |- media/          # Media library
    |- settings/
      |- page.tsx
      |- site/page.tsx # Site-wide settings
    |- login/page.tsx # CMS Login

|- api/
  |- public/          # Public API (read-mostly)
    |- services/
      |- route.ts      # GET all
      |- [slug]/route.ts # GET by slug
    |- rentals/
    |- portfolio/
    |- venues/
    |- testimonials/
    |- faqs/
    |- blog/
    |- quote-request/ # POST quote requests
      |- route.ts
    |- contact/        # POST contact form
      |- route.ts
    |- analytics/       # POST view tracking
      |- track/route.ts

  |- cms/             # Protected CMS API (full CRUD)
    |- services/
      |- route.ts      # GET all, POST create
      |- [id]/route.ts # GET, PUT, DELETE
```

```
    ├── rentals/
    ├── portfolio/
    ├── venues/
    ├── testimonials/
    ├── faqs/
    ├── blog/
    ├── team/
    ├── quotes/
    ├── inquiries/
    └── media/
        ├── route.ts          # Upload, list
        └── [id]/route.ts     # Delete
    ├── settings/
    └── analytics/
        └── route.ts          # GET dashboard stats

    ├── proxy.ts             # Auth middleware (Next.js 16 convention)
    ├── layout.tsx           # Root layout
    └── globals.css

components/
    ├── public/              # Public site components
    │   ├── services/
    │   │   ├── service-card.tsx
    │   │   ├── service-detail.tsx
    │   │   └── service-grid.tsx
    │   ├── rentals/
    │   │   ├── rental-card.tsx
    │   │   ├── rental-filters.tsx
    │   │   ├── rental-grid.tsx
    │   │   └── quote-basket.tsx
    │   ├── portfolio/
    │   ├── venues/
    │   ├── blog/
    │   ├── faqs/
    │   ├── testimonials/
    │   └── shared/
    │       ├── hero-section.tsx
    │       ├── cta-button.tsx
    │       ├── instagram-feed.tsx
    │       └── page-skeleton.tsx

    └── cms/                 # CMS components
        ├── layout/
        │   ├── cms-shell.tsx      # Main layout wrapper
        │   ├── cms-header.tsx     # Top navigation
        │   ├── cms-sidebar.tsx    # Side navigation
        │   └── cms-breadcrumb.tsx
        ├── dashboard/
        │   ├── stats-card.tsx
        │   ├── recent-activity.tsx
        │   └── quick-actions.tsx
        └── data-table/
            └── data-table.tsx      # Reusable table component
```

```
    └── data-table-toolbar.tsx
    └── data-table-pagination.tsx
    └── data-table-column-header.tsx
    └── data-table-row-actions.tsx
  └── forms/
    ├── form-field.tsx      # Reusable form field wrapper
    ├── image-upload.tsx    # Image upload component
    ├── multi-image-upload.tsx
    ├── rich-text-editor.tsx # TipTap integration
    ├── slug-input.tsx      # Auto-slug generation
    ├── tag-input.tsx       # Tag management
    └── searchable-select.tsx
  └── shared/
    ├── empty-state.tsx
    ├── loading-skeleton.tsx
    ├── confirm-dialog.tsx
    ├── status-badge.tsx
    └── page-header.tsx
  └── modules/             # Module-specific components
    ├── services/
    ├── rentals/
    ├── portfolio/
    ├── blog/
    └── quotes/
  └── layout/               # Site-wide layouts
    ├── site-header.tsx
    └── site-footer.tsx
  └── ui/                  # Radix UI primitives
    ├── accordion.tsx
    ├── button.tsx
    ├── card.tsx
    ├── dialog.tsx
    ├── dropdown-menu.tsx
    ├── input.tsx
    ├── label.tsx
    ├── select.tsx
    ├── sheet.tsx
    ├── skeleton.tsx
    ├── table.tsx
    ├── tabs.tsx
    ├── textarea.tsx
    ├── toast.tsx
    └── tooltip.tsx
  └── hooks/
    └── public/              # Public data hooks
      ├── use-services.ts
      ├── use-service.ts
      ├── use-rentals.ts
      ├── use-rental.ts
      ├── use-portfolio.ts
      └── use-portfolio-project.ts
```

```
    └── use-venues.ts
    └── use-testimonials.ts
    └── use-faqs.ts
    └── use-blog-posts.ts
    └── use-blog-post.ts
    └── use-quote-basket.ts

    └── cms/                      # CMS data hooks
        ├── use-services.ts
        ├── use-service-mutations.ts
        ├── use-rentals.ts
        ├── use-rental-mutations.ts
        ├── use-portfolio.ts
        ├── use-portfolio-mutations.ts
        ├── use-venues.ts
        ├── use-venue-mutations.ts
        ├── use-testimonials.ts
        ├── use-testimonial-mutations.ts
        ├── use-faqs.ts
        ├── use-faq-mutations.ts
        ├── use-blog-posts.ts
        ├── use-blog-mutations.ts
        ├── use-team.ts
        ├── use-team-mutations.ts
        ├── use-quotes.ts
        ├── use-quote-mutations.ts
        ├── use-inquiries.ts
        ├── use-media.ts
        ├── use-media-mutations.ts
        ├── use-analytics.ts
        └── use-settings.ts

    └── lib/
        └── supabase/
            ├── client.ts          # Browser Supabase client
            ├── server.ts           # Server Supabase client
            ├── admin.ts            # Admin client (for scripts)
            └── types.ts             # Generated database types

        └── schemas/                # Zod validation schemas
            ├── service.schema.ts
            ├── rental.schema.ts
            ├── portfolio.schema.ts
            ├── venue.schema.ts
            ├── testimonial.schema.ts
            ├── faq.schema.ts
            ├── blog.schema.ts
            ├── team.schema.ts
            ├── quote.schema.ts
            ├── inquiry.schema.ts
            ├── media.schema.ts
            └── settings.schema.ts

        └── types/                  # TypeScript type definitions
```

```
    └── database.types.ts      # Auto-generated from Supabase
        ├── service.types.ts
        ├── rental.types.ts
        ├── portfolio.types.ts
        ├── venue.types.ts
        ├── testimonial.types.ts
        ├── faq.types.ts
        ├── blog.types.ts
        ├── team.types.ts
        ├── quote.types.ts
        ├── inquiry.types.ts
        └── api.types.ts          # API response types

    └── constants/
        ├── navigation.ts      # CMS navigation config
        ├── rental-categories.ts
        ├── event-types.ts
        └── query-keys.ts        # TanStack Query keys

    └── utils/
        ├── cn.ts               # Class name utility
        ├── format.ts            # Formatting utilities
        ├── slug.ts              # Slug generation
        ├── seo.ts               # SEO utilities
        └── storage.ts           # Supabase storage utilities

    └── context/
        ├── quote-basket-context.tsx
        └── auth-context.tsx

    └── scripts/
        ├── migrate-images.ts    # Image migration to Supabase
        ├── seed-data.ts          # Initial data seeding
        └── generate-types.ts     # Generate Supabase types

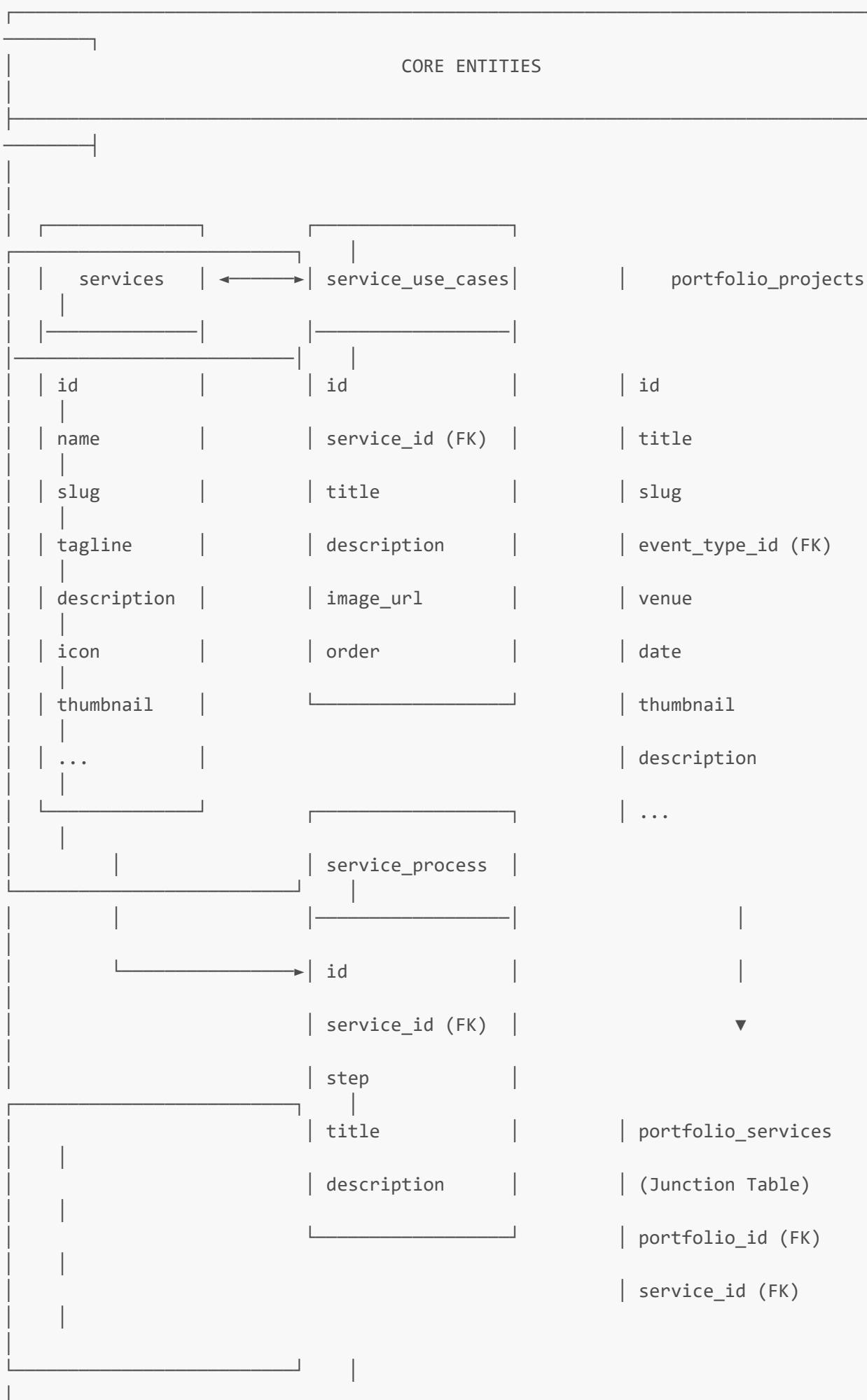
    └── docs/
        └── v2/
            ├── ARCHITECTURE_V2.md      # This document
            ├── WORKFLOW_V2.md            # Implementation workflow
            ├── SCHEMA_V1.sql             # Database schema
            └── CMS_UI_TEMPLATE.md        # UI/UX guidelines

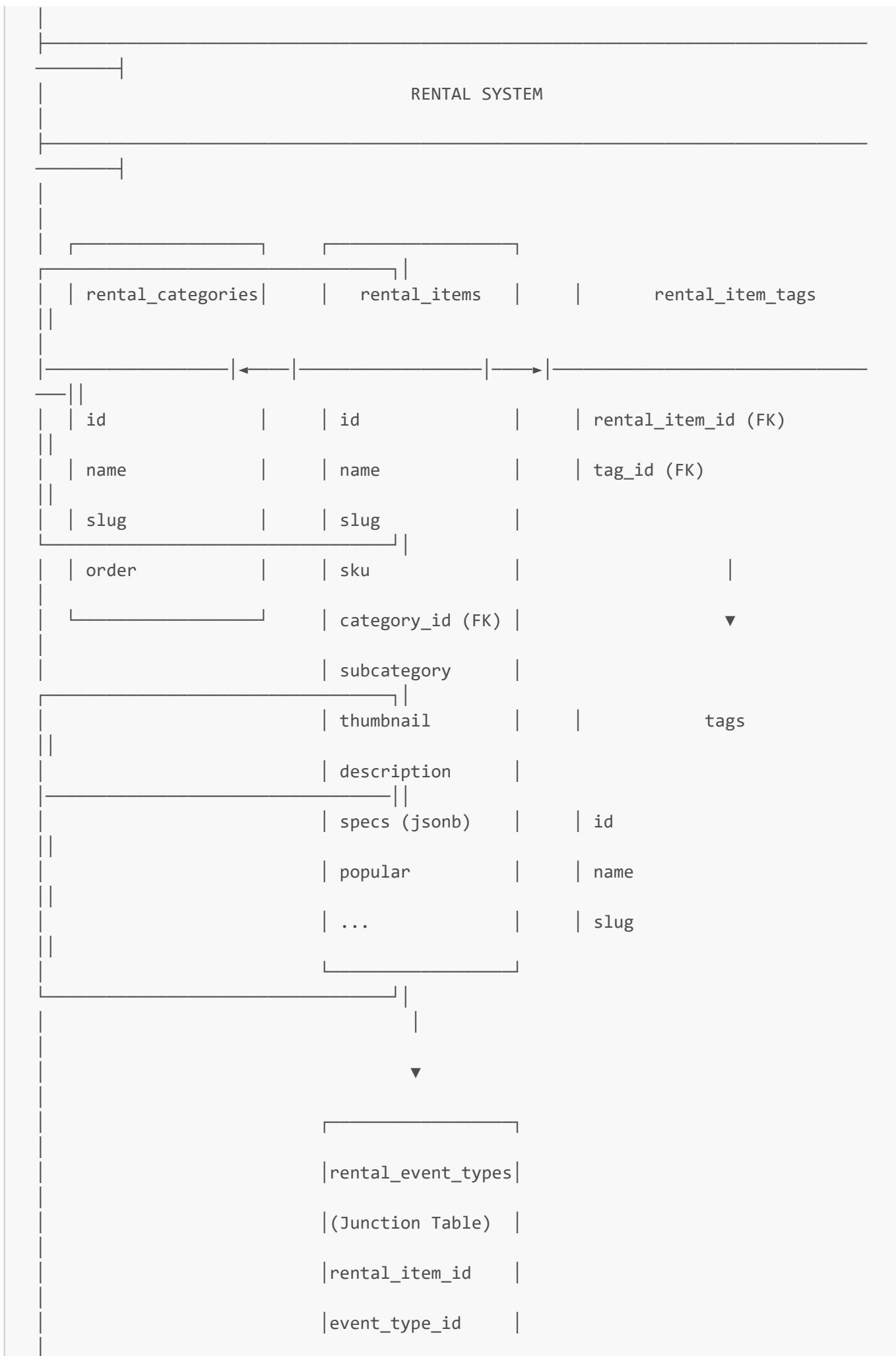
    └── public/
        └── ... (static assets)
```

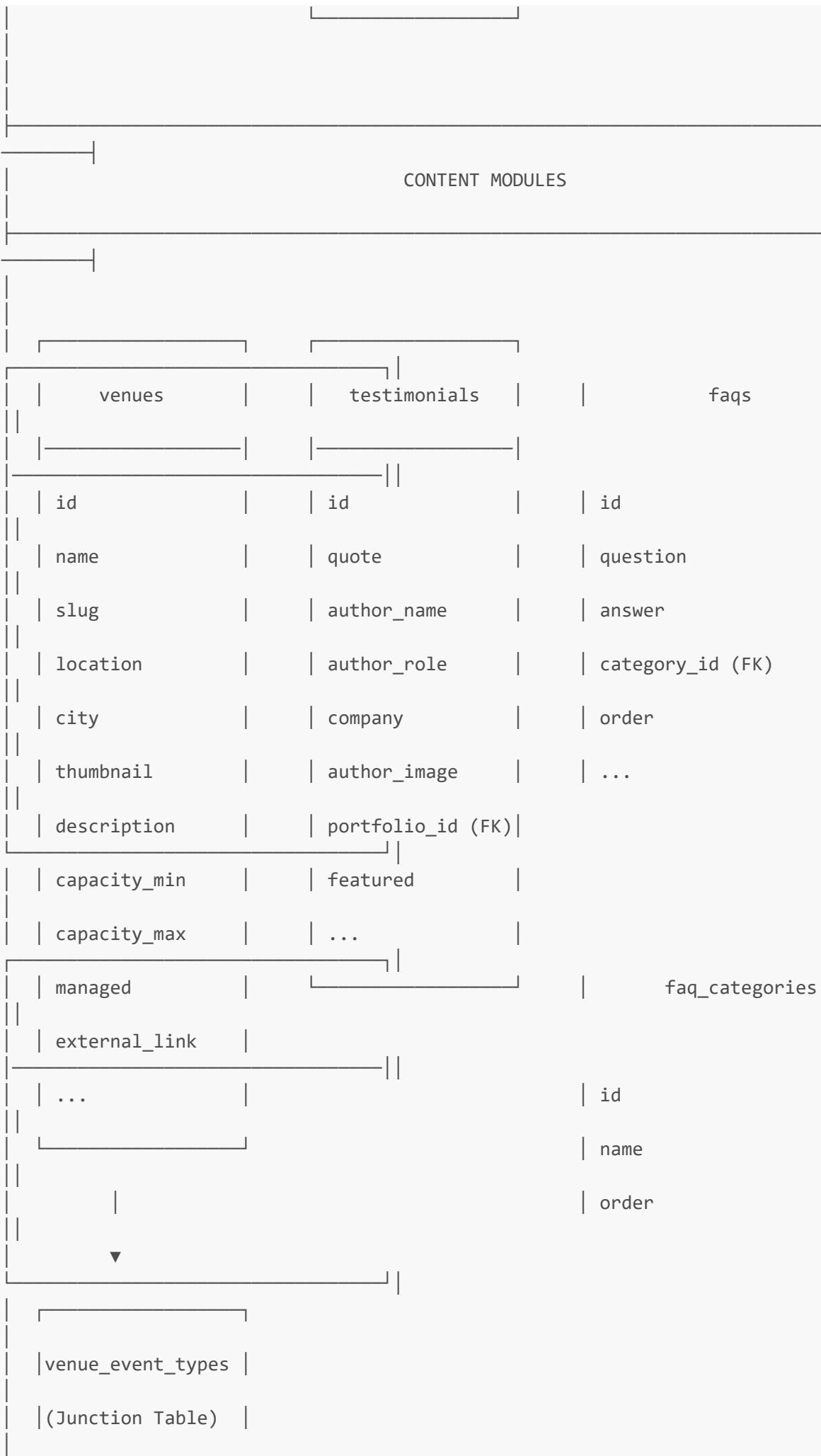
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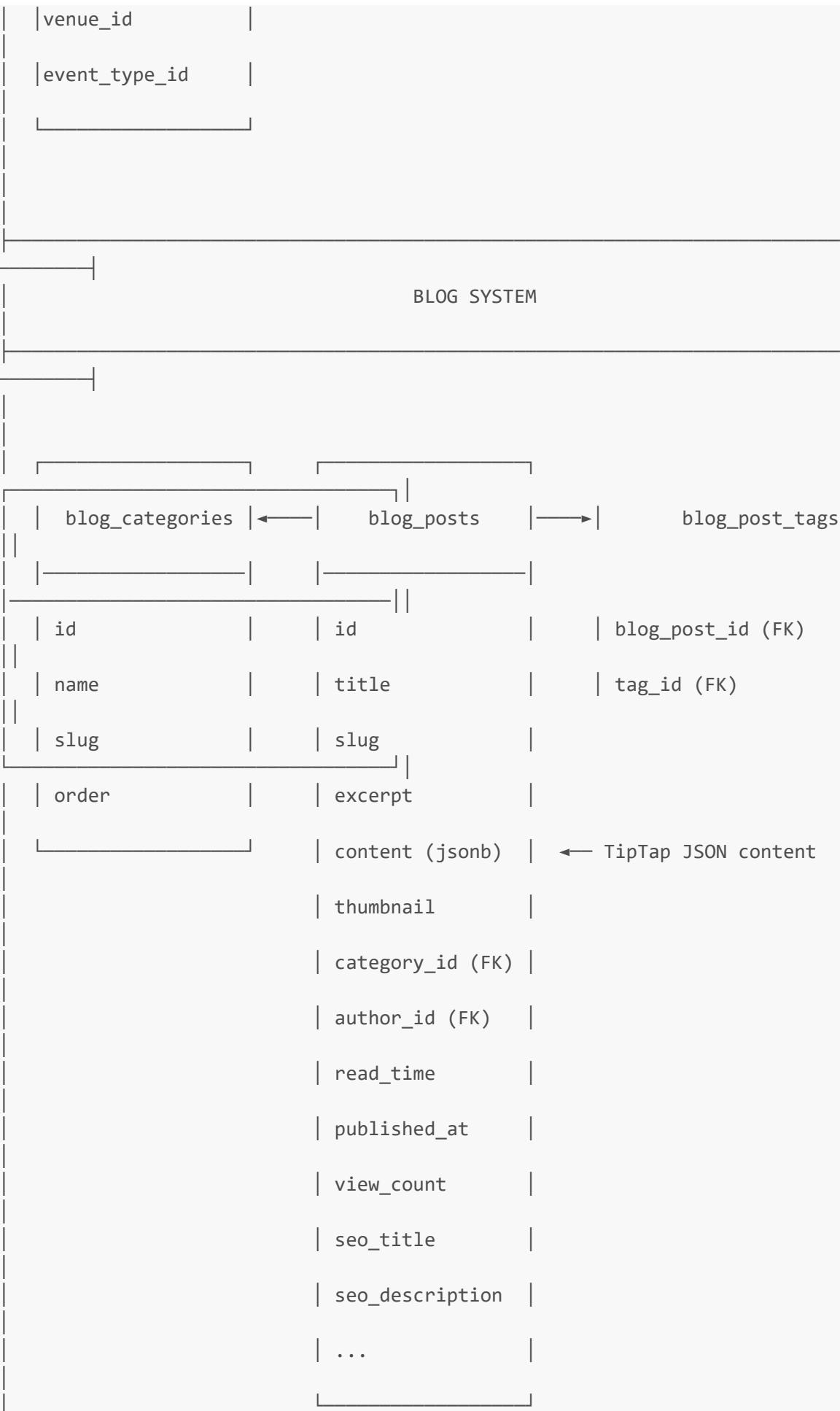
## Data Architecture

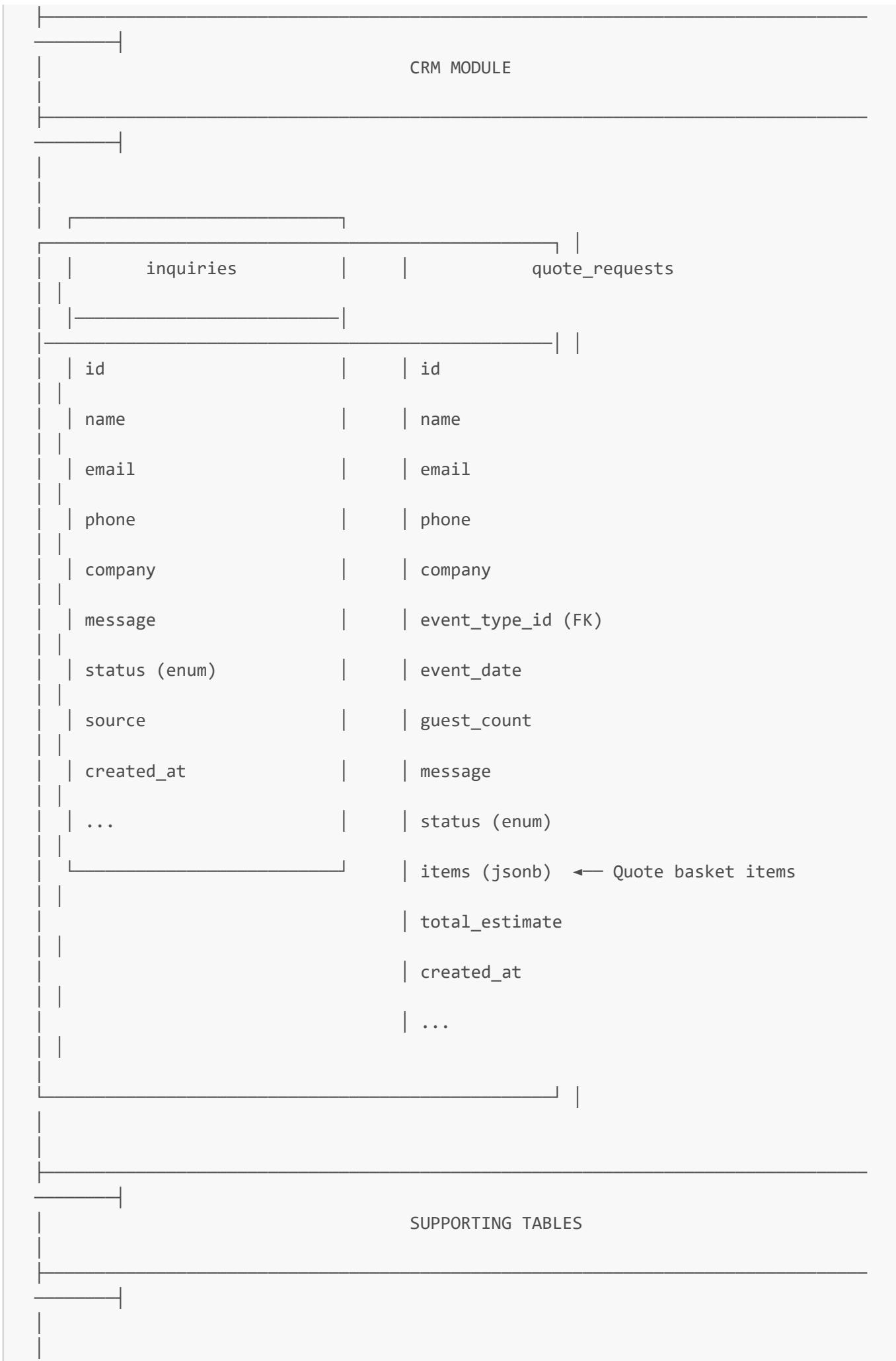
### Entity Relationship Diagram

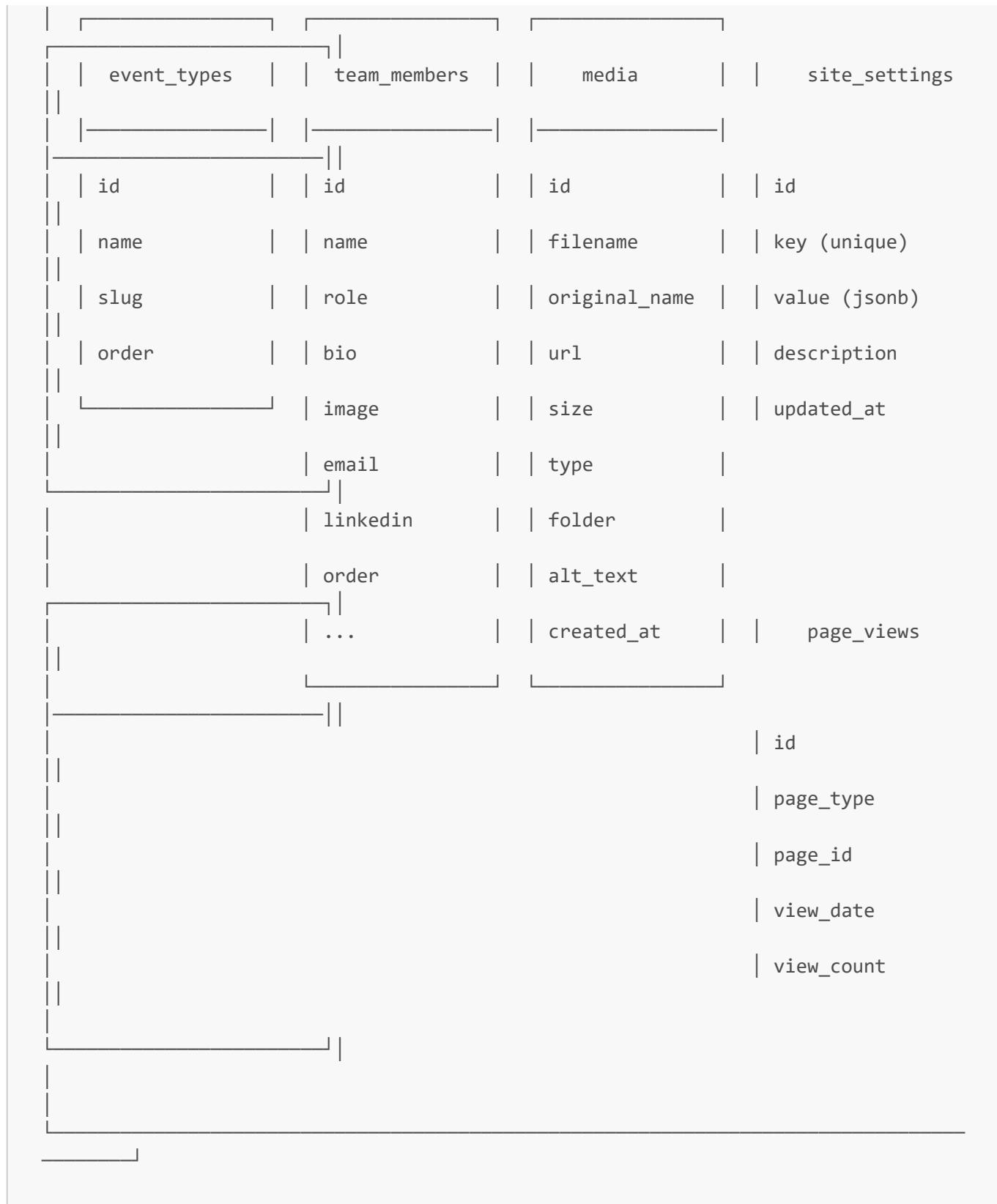












## Data Flow Patterns

### Public Site Data Flow

User Request → Next.js Route → useQuery Hook → API Route → Supabase → Response → Cache → UI

Cache Hit? → Return cached data

## CMS Data Flow

```
Admin Action → Form (React Hook Form + Zod) → useMutation → API Route → Auth Check  
→ Supabase → Invalidate Cache → Update UI
```

```
RLS Policies → Verify Admin Role
```

## API Design

### API Conventions

#### URL Structure

- **Public API:** `/api/public/{resource}` - Read-only, no auth required
- **CMS API:** `/api/cms/{resource}` - Full CRUD, auth required

#### HTTP Methods

Method	Purpose	Example
GET	Retrieve data	<code>GET /api/public/services</code>
POST	Create new record	<code>POST /api/cms/services</code>
PUT	Full update	<code>PUT /api/cms/services/[id]</code>
PATCH	Partial update	<code>PATCH /api/cms/services/[id]</code>
DELETE	Soft delete	<code>DELETE /api/cms/services/[id]</code>

#### Response Format

```
// Success Response
{
  success: true,
  data: T | T[],
  meta?: {
    total: number,
    page: number,
    limit: number
  }
}

// Error Response
{
  success: false,
```

```

error: {
  code: string,
  message: string,
  details?: Record<string, string[]>
}
}

```

## Public API Endpoints

Endpoint	Method	Description
/api/public/services	GET	List all services
/api/public/services/[slug]	GET	Get service by slug
/api/public/rentals	GET	List rentals (with filters)
/api/public/rentals/[slug]	GET	Get rental by slug
/api/public/rentals/categories	GET	List rental categories
/api/public/portfolio	GET	List portfolio projects
/api/public/portfolio/[slug]	GET	Get project by slug
/api/public/venues	GET	List venues
/api/public/testimonials	GET	List testimonials
/api/public/faqs	GET	List FAQs
/api/public/blog	GET	List blog posts
/api/public/blog/[slug]	GET	Get post by slug
/api/public/quote-request	POST	Submit quote request
/api/public/contact	POST	Submit contact form
/api/public/analytics/track	POST	Track page view

## CMS API Endpoints

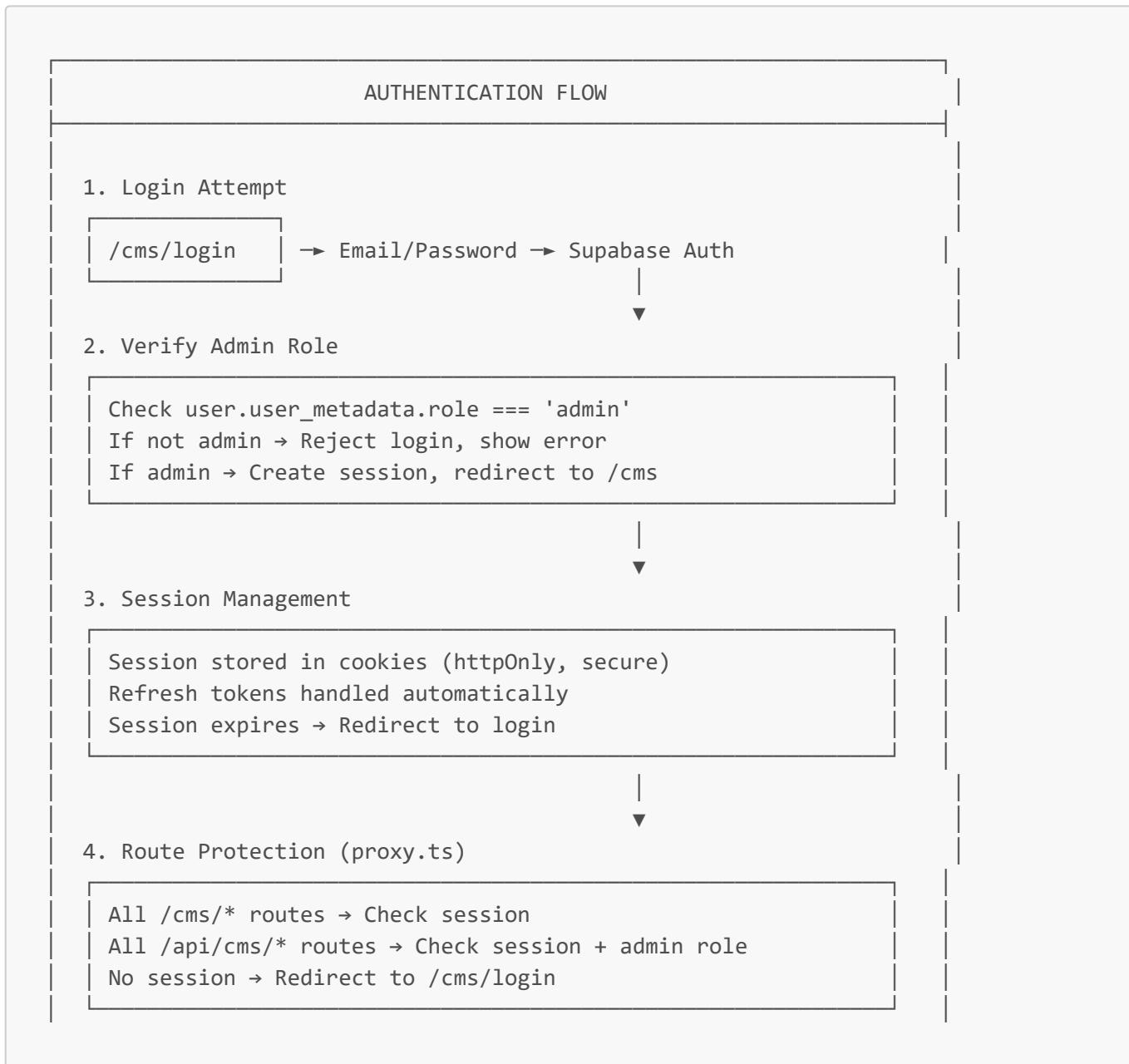
All CMS endpoints follow the same CRUD pattern:

Endpoint	Method	Description
/api/cms/{resource}	GET	List with pagination, search, filters
/api/cms/{resource}	POST	Create new record
/api/cms/{resource}/[id]	GET	Get by ID
/api/cms/{resource}/[id]	PUT	Full update
/api/cms/{resource}/[id]	DELETE	Soft delete

Endpoint	Method	Description
/api/cms/{resource}/{id}/restore	POST	Restore soft-deleted
Additional CMS endpoints:		
Endpoint	Method	Description
/api/cms/media	POST	Upload file
/api/cms/media/{id}	DELETE	Delete file
/api/cms/analytics	GET	Dashboard statistics
/api/cms/settings	GET/PUT	Site settings

## Authentication & Authorization

### Auth Flow



## User Metadata Structure

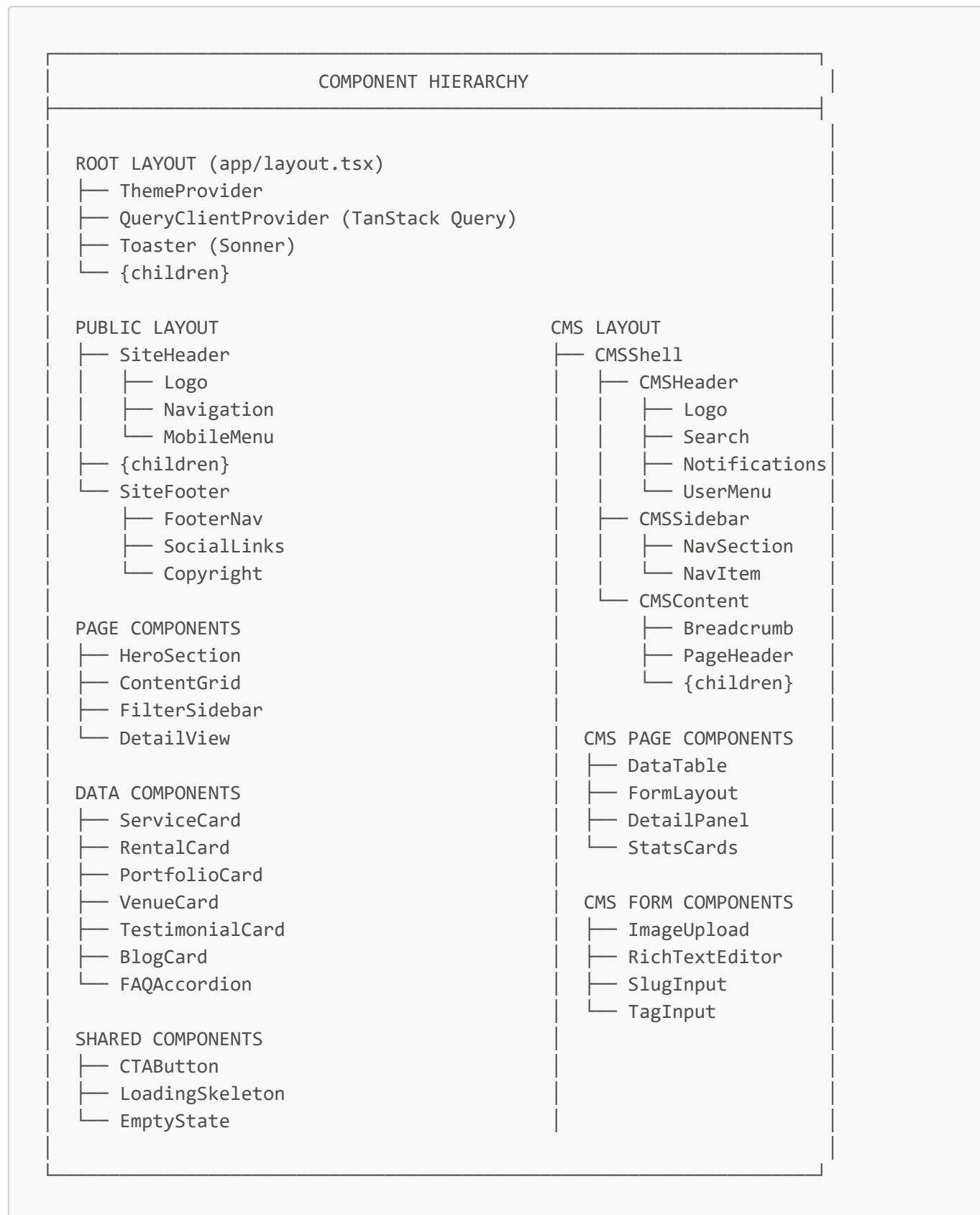
```
interface UserMetadata {  
  role: 'admin'; // Single role for V2.0  
  full_name: string;  
  avatar_url?: string;  
}
```

## proxy.ts Implementation Pattern

```
// app/proxy.ts  
import { createServerClient } from '@supabase/ssr';  
import { NextResponse, type NextRequest } from 'next/server';  
  
export async function middleware(request: NextRequest) {  
  const { pathname } = request.nextUrl;  
  
  // Only protect CMS routes  
  if (!pathname.startsWith('/cms') && !pathname.startsWith('/api/cms')) {  
    return NextResponse.next();  
  }  
  
  // Allow login page  
  if (pathname === '/cms/login') {  
    return NextResponse.next();  
  }  
  
  // Check session  
  const supabase = createServerClient(/* config */);  
  const { data: { session } } = await supabase.auth.getSession();  
  
  if (!session) {  
    return NextResponse.redirect(new URL('/cms/login', request.url));  
  }  
  
  // Verify admin role  
  const role = session.user.user_metadata?.role;  
  if (role !== 'admin') {  
    return NextResponse.redirect(new URL('/cms/login?error=unauthorized',  
request.url));  
  }  
  
  return NextResponse.next();  
}
```

# Component Architecture

## Component Hierarchy



## Component Design Principles

- 1. Single Responsibility:** Each component does one thing well
- 2. Composition Over Inheritance:** Build complex UIs from simple components

3. **Props Interface First:** Define TypeScript interfaces before implementation
  4. **Controlled Components:** Forms use React Hook Form for state
  5. **Loading States:** All data components have skeleton loading states
  6. **Error Boundaries:** Graceful error handling at component level
  7. **Accessibility:** ARIA labels, keyboard navigation, screen reader support
- 

## State Management

### TanStack Query Configuration

```
// lib/query-client.ts
import { QueryClient } from '@tanstack/react-query';

export const queryClient = new QueryClient({
  defaultOptions: {
    queries: {
      staleTime: 60 * 1000,           // 1 minute
      gcTime: 10 * 60 * 1000,        // 10 minutes (formerly cacheTime)
      retry: 1,
      refetchOnWindowFocus: false,
    },
    mutations: {
      onError: (error) => {
        // Global error handler
        console.error('Mutation error:', error);
      },
    },
  },
});
```

### Query Keys Convention

```
// lib/constants/query-keys.ts
export const queryKeys = {
  // Public
  services: {
    all: ['services'] as const,
    list: () => [...queryKeys.services.all, 'list'] as const,
    detail: (slug: string) => [...queryKeys.services.all, 'detail', slug] as const,
  },
  rentals: {
    all: ['rentals'] as const,
    list: (filters?: RentalFilters) => [...queryKeys.rentals.all, 'list', filters] as const,
    detail: (slug: string) => [...queryKeys.rentals.all, 'detail', slug] as const,
    categories: () => [...queryKeys.rentals.all, 'categories'] as const,
  },
};
```

```
// ... other resources

// CMS
cms: {
  services: {
    all: ['cms', 'services'] as const,
    list: (params?: ListParams) => [...queryKeys.cms.services.all, 'list',
params] as const,
    detail: (id: string) => [...queryKeys.cms.services.all, 'detail', id] as
const,
  },
  // ... other CMS resources
},
};
```

## Hook Pattern Example

```
// hooks/public/use-services.ts
import { useQuery } from '@tanstack/react-query';
import { queryKeys } from '@/lib/constants/query-keys';
import type { Service } from '@/lib/types/service.types';

export function useServices() {
  return useQuery({
    queryKey: queryKeys.services.list(),
    queryFn: async (): Promise<Service[]> => {
      const res = await fetch('/api/public/services');
      if (!res.ok) throw new Error('Failed to fetch services');
      const { data } = await res.json();
      return data;
    },
  });
}

// hooks/cms/use-service-mutations.ts
import { useMutation, useQueryClient } from '@tanstack/react-query';
import { queryKeys } from '@/lib/constants/query-keys';
import { toast } from 'sonner';

export function useCreateService() {
  const queryClient = useQueryClient();

  return useMutation({
    mutationFn: async (data: CreateServiceInput) => {
      const res = await fetch('/api/cms/services', {
        method: 'POST',
        headers: { 'Content-Type': 'application/json' },
        body: JSON.stringify(data),
      });
      if (!res.ok) throw new Error('Failed to create service');
      return res.json();
    }
  });
}
```

```

    },
    onSuccess: () => {
      queryClient.invalidateQueries({ queryKey: queryKeys.cms.services.all });
      queryClient.invalidateQueries({ queryKey: queryKeys.services.all });
      toast.success('Service created successfully');
    },
    onError: (error) => {
      toast.error('Failed to create service');
    },
  );
}

```

## Caching Strategy

### Cache Invalidation Rules

Action	Invalidate
Create service	cms.services.all, services.all
Update service	cms.services.all, cms.services.detail(id), services.all, services.detail(slug)
Delete service	cms.services.all, services.all
Upload media	cms.media.all

### Optimistic Updates

For better UX, implement optimistic updates on mutations:

```

useMutation({
  mutationFn: updateService,
  onMutate: async (newData) => {
    await queryClient.cancelQueries({ queryKey: queryKeys.cms.services.detail(id) });
    const previous = queryClient.getQueryData(queryKeys.cms.services.detail(id));
    queryClient.setQueryData(queryKeys.cms.services.detail(id), newData);
    return { previous };
  },
  onError: (err, newData, context) => {
    queryClient.setQueryData(queryKeys.cms.services.detail(id),
    context?.previous);
  },
  onSettled: () => {
    queryClient.invalidateQueries({ queryKey: queryKeys.cms.services.detail(id) });
  },
});

```

## Error Handling

### API Error Handling

```
// lib/utils/api-error.ts
export class ApiError extends Error {
  constructor(
    public statusCode: number,
    public code: string,
    message: string,
    public details?: Record<string, string[]>
  ) {
    super(message);
    this.name = 'ApiError';
  }

  static badRequest(message: string, details?: Record<string, string[]>) {
    return new ApiError(400, 'BAD_REQUEST', message, details);
  }

  static unauthorized(message = 'Unauthorized') {
    return new ApiError(401, 'UNAUTHORIZED', message);
  }

  static forbidden(message = 'Forbidden') {
    return new ApiError(403, 'FORBIDDEN', message);
  }

  static notFound(resource = 'Resource') {
    return new ApiError(404, 'NOT_FOUND', `${resource} not found`);
  }

  static internal(message = 'Internal server error') {
    return new ApiError(500, 'INTERNAL_ERROR', message);
  }
}
```

### Client-Side Error Handling

```
// Global error boundary for React Query
const queryClient = new QueryClient({
  defaultOptions: {
    queries: {
      throwOnError: false,
    },
    mutations: {
      throwOnError: false,
      onError: (error) => {
        if (error instanceof ApiError) {
```

```

        toast.error(error.message);
    } else {
        toast.error('An unexpected error occurred');
    }
},
},
},
});

```

## File Storage

### Supabase Storage Structure

```

storage/
└── public/                               # Publicly accessible
    ├── services/                          # Service images
    │   ├── thumbnails/
    │   │   └── gallery/
    ├── rentals/                           # Service images
    │   ├── thumbnails/
    │   │   └── gallery/
    ├── portfolio/                         # Service images
    │   ├── thumbnails/
    │   │   └── gallery/
    ├── blog/                               # Service images
    │   ├── thumbnails/
    │   │   └── content/
    ├── team/                               # Service images
    ├── venues/                            # Service images
    └── testimonials/                      # Service images

└── private/                             # Authenticated access only
    └── documents/                        # Any internal documents

```

### Storage Policies

```

-- Public bucket: anyone can read
CREATE POLICY "Public read access"
ON storage.objects FOR SELECT
USING (bucket_id = 'public');

-- Only authenticated admins can upload/delete
CREATE POLICY "Admin write access"
ON storage.objects FOR INSERT
WITH CHECK (
    bucket_id = 'public' AND
    auth.role() = 'authenticated' AND
    (auth.jwt() -> 'user_metadata' ->> 'role') = 'admin'
)

```

```
);

CREATE POLICY "Admin delete access"
ON storage.objects FOR DELETE
USING (
    bucket_id = 'public' AND
    auth.role() = 'authenticated' AND
    (auth.jwt() -> 'user_metadata' ->> 'role') = 'admin'
);
```

## Image Upload Utility

```
// lib/utils/storage.ts
import { createClient } from '@/lib/supabase/client';

interface UploadResult {
    url: string;
    path: string;
}

export async function uploadImage(
    file: File,
    folder: string,
    filename?: string
): Promise<UploadResult> {
    const supabase = createClient();
    const ext = file.name.split('.').pop();
    const name = filename || `${Date.now()}-${Math.random().toString(36).slice(2)}`;
    const path = `${folder}/${name}.${ext}`;

    const { error } = await supabase.storage
        .from('public')
        .upload(path, file, {
            cacheControl: '3600',
            upsert: false,
        });

    if (error) throw error;

    const { data: { publicUrl } } = supabase.storage
        .from('public')
        .getPublicUrl(path);

    return { url: publicUrl, path };
}

export async function deleteImage(path: string): Promise<void> {
    const supabase = createClient();
    const { error } = await supabase.storage.from('public').remove([path]);
    if (error) throw error;
}
```

## Analytics Tracking

### Page View Tracking

```
// Track view on page load
// hooks/public/use-track-view.ts
import { useEffect } from 'react';

export function useTrackView(pageType: string, pageId: string) {
  useEffect(() => {
    const track = async () => {
      await fetch('/api/public/analytics/track', {
        method: 'POST',
        headers: { 'Content-Type': 'application/json' },
        body: JSON.stringify({ pageType, pageId }),
      });
    };
    track();
  }, [pageType, pageId]);
}
```

### Dashboard Analytics

The CMS dashboard will display:

- Total views by resource type
- Most viewed services/rentals/blog posts
- Quote request trends
- Inquiry volume over time
- Recent activity feed

## Security Considerations

### Row Level Security (RLS)

All tables will have RLS enabled with these policies:

1. **Public Read:** Anyone can read published content
2. **Admin Full Access:** Authenticated admins have full CRUD access
3. **Soft Delete Protection:** Deleted records hidden from public API

### Input Validation

- All inputs validated with Zod schemas on both client and server
- SQL injection protected through parameterized queries (Supabase default)
- XSS prevention through React's default escaping

## Rate Limiting

Consider implementing rate limiting on:

- Quote request submissions
- Contact form submissions
- Analytics tracking endpoint

## Environment Variables

```
# .env.local
NEXT_PUBLIC_SUPABASE_URL=https://xxx.supabase.co
NEXT_PUBLIC_SUPABASE_ANON_KEY=xxx

# Server-only
SUPABASE_SERVICE_ROLE_KEY=xxx
```

---

## Appendix

### Glossary

Term	Definition
CMS	Content Management System
RLS	Row Level Security
CRM	Customer Relationship Management
CRUD	Create, Read, Update, Delete

### Related Documents

- [WORKFLOW\\_V2.md](#) - Implementation workflow
- [SCHEMA\\_V1.sql](#) - Database schema
- [CMS\\_UI\\_TEMPLATE.md](#) - UI/UX guidelines

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*This document is a living reference and will be updated as the architecture evolves.*