

## Business Website Platform

A comprehensive, generic business website platform built according to SRS specifications. This platform can represent almost any type of business with configurable modules.

### Technical Specifications

#### Backend Stack

##### #### Core Framework

- \*\*Laravel Framework\*\*: ^12.0
- \*\*PHP\*\*: ^8.2
- \*\*Composer\*\*: Dependency management

##### #### Authentication & Security

- \*\*Laravel Sanctum\*\*: ^4.2 - API token-based authentication
- \*\*Laravel UI\*\*: ^4.6 - Authentication scaffolding

##### #### Database & ORM

- \*\*Laravel Eloquent ORM\*\*: Built-in ORM for database operations
- \*\*MySQL/PostgreSQL/SQLite\*\*: Supported database systems
- \*\*Yajra Laravel DataTables\*\*: ^12.3 - Advanced data tables with server-side processing
- \*\*Yajra Laravel OCI8\*\*: ^12.0 - Oracle database support

##### #### File Processing & Media

- \*\*Intervention Image\*\*: ^3.11 - Image manipulation library

- **Intervention Image Laravel**: ^1.5 - Laravel integration for image processing
- **Barryvdh Laravel Snappy**: ^1.0 - PDF generation from HTML

#### #### Data Export & Import

- **Maatwebsite Excel**: ^3.1 - Excel file import/export functionality

#### #### API & Integration

- **Guzzle HTTP**: ^7.9 - HTTP client for API requests
- **Inertia.js Laravel**: ^2.0 - Modern monolith approach (SPA-like experience)
- **Tightenco Ziggy**: ^2.4 - Route helper for JavaScript

#### #### Utilities

- **SimpleSoftwareIO Simple QRCode**: ^4.2 - QR code generation
- **Irazasyed Telegram Bot SDK**: ^3.15 - Telegram bot integration
- **DirectoryTree LDAPRecord Laravel**: ^3.4 - LDAP authentication support

#### #### Development Tools

- **Laravel Tinker**: ^2.10.1 - REPL for Laravel
- **Laravel Pint**: ^1.18 - Code style fixer
- **Laravel Sail**: ^1.41 - Docker development environment
- **Laravel Pail**: ^1.2.2 - Real-time log viewer
- **OpcodesIO Log Viewer**: ^3.17 - Advanced log viewing interface

#### #### Testing

- **PHPUnit**: ^11.5.3 - Unit testing framework
- **Mockery**: ^1.6 - Mocking library for testing

- **Nunomaduro Collision**: ^8.6 - Error handler for console/CLI
- **FakerPHP Faker**: ^1.23 - Fake data generator for testing

## Frontend Stack

### #### Core Framework

- **Vue.js**: ^3.2.37 - Progressive JavaScript framework
- **Vue Router**: ^4.3.0 - Official router for Vue.js
- **Vite**: ^6.3.5 - Next-generation frontend build tool

### #### UI Framework

- **Vuetify**: ^3.5.14 - Material Design component framework
- **Material Design Icons**: ^7.4.47 - Icon library (@mdi/font)

### #### State Management

- **Pinia**: ^3.0.4 - Official state management for Vue 3
- **Vuex**: ^4.1.0 - State management pattern library

### #### Forms & Validation

- **VForm**: ^2.1.2 - Form validation library for Vue.js

### #### Rich Text Editing

- **Quill**: ^2.0.3 - Rich text WYSIWYG editor
- **Vue3 Editor**: ^0.1.1 - Vue 3 wrapper for Quill

### #### Data Visualization

- **Chart.js**: ^4.5.1 - Simple yet flexible JavaScript charting library
- **Vue ChartJS**: ^5.3.3 - Vue.js wrapper for Chart.js

#### #### UI Enhancements

- **Vue SweetAlert2**: ^5.0.5 - Beautiful, responsive, customizable popup boxes
- **Vue3 Progress Bar**: ^1.0.3 - Progress bar component for Vue 3

#### #### Utilities

- **Axios**: ^1.6.4 - Promise-based HTTP client
- **Moment.js**: ^2.30.1 - Date manipulation library
- **Bootstrap**: ^5.3.6 - CSS framework (for some legacy components)
- **Popper.js**: ^2.11.6 - Tooltip and popover positioning engine
- **Fontsource Prompt**: ^5.0.13 - Self-hosted Prompt font

#### #### Build Tools

- **Vite**: ^6.3.5 - Fast build tool and dev server
- **Sass**: ^1.89.1 - CSS preprocessor
- **Laravel Vite Plugin**: ^1.0 - Laravel integration for Vite
- **@vitejs/plugin-vue**: ^5.2.4 - Vue.js plugin for Vite

### Development Environment

#### #### Required Software

- **PHP**: 8.2 or higher
- **Composer**: PHP dependency manager
- **Node.js**: 18+ (for npm)

- **npm**: Package manager for JavaScript
- **MySQL/PostgreSQL/SQLite**: Database system

#### #### Build Commands

```bash

### Install PHP dependencies

composer install

### Install JavaScript dependencies

npm install

### Development build (with hot reload)

npm run dev

### Production build

npm run build

```

### Architecture

#### #### Backend Architecture

- **MVC Pattern**: Model-View-Controller architecture
- **RESTful API**: RESTful API design for admin panel
- **Service Layer**: Business logic separation
- **Repository Pattern**: Data access abstraction (where applicable)

#### #### Frontend Architecture

- \*\*Component-Based\*\*: Vue.js component architecture
- \*\*SPA (Single Page Application)\*\*: Client-side routing with Vue Router
- \*\*API-Driven\*\*: Frontend communicates with backend via REST API
- \*\*State Management\*\*: Centralized state with Pinia/Vuex

#### #### Security Features

- \*\*CSRF Protection\*\*: Laravel's built-in CSRF protection
- \*\*XSS Protection\*\*: Automatic output escaping
- \*\*SQL Injection Protection\*\*: Eloquent ORM parameter binding
- \*\*Authentication\*\*: Laravel Sanctum token-based authentication
- \*\*Authorization\*\*: Role-Based Access Control (RBAC) with permissions

### Performance Optimizations

#### #### Backend

- \*\*Query Optimization\*\*: Eloquent eager loading
- \*\*Caching\*\*: Laravel's caching system
- \*\*Database Indexing\*\*: Optimized database queries
- \*\*File Compression\*\*: Image optimization with Intervention Image

#### #### Frontend

- \*\*Code Splitting\*\*: Lazy loading of routes and components
- \*\*Asset Optimization\*\*: Vite's built-in optimization
- \*\*Image Lazy Loading\*\*: Lazy loading for images

- **Tree Shaking**: Unused code elimination

## Browser Support

- **Modern Browsers**: Chrome, Firefox, Safari, Edge (latest versions)
- **Mobile Browsers**: iOS Safari, Chrome Mobile
- **Responsive Design**: Mobile-first approach with Vuetify

## 🚀 Features

### Core Features

#### #### Authentication & Security

- **Laravel Sanctum Authentication**: Secure API token-based authentication for admin panel
- **Role-Based Access Control (RBAC)**: Granular permission system with roles and permissions
- **User Management**: Complete user administration with role assignment
- **Permission Management**: Fine-grained permission control for all features
- **Login Logging**: Track all login attempts (successful and failed) with IP addresses and user agents
- **Visitor Logging**: Comprehensive visitor tracking with device, browser, OS, and bot detection

#### #### Settings Management

- **General Settings**: Site name, tagline, contact information, address
- **Home Page Settings**: Modular section management with tabbed interface:
  - Hero section with customizable title, subtitle, and CTA buttons
  - Statistics section with up to 4 customizable stat cards
  - Trusted By section with dynamic client logo management

- Services section (WHAT WE DO) with dynamic service cards
- Why Choose Us section with features management
- Testimonials section with testimonial cards
- Featured Products section
- CTA (Call-to-Action) section with primary and secondary buttons
- Section visibility toggles for each section
- **Contact Page Settings**: Contact form configuration and page content
- **Branding Settings**: Logo, favicon, and color scheme customization
- **Social Media Settings**: Social media links and integration
- **SEO Settings**: Default meta tags, descriptions, and keywords
- **Email/SMTP Settings**: Email configuration for notifications

#### #### Leads & Communication

- **Lead Management**: Complete lead tracking system with:
  - Lead status management (New, Contacted, Qualified, Converted, Lost)
  - Lead type categorization (Contact, Quote, Support)
  - Read/Unread status tracking
  - Lead assignment to users
  - Notes and comments
  - CSV export functionality
- **Newsletter Subscriptions**: Newsletter management with:
  - Subscription status tracking
  - Email verification
  - CSV export functionality
  - Bulk operations

#### #### About Page Management

- \*\*Singleton About Page\*\*: Single about page management with:
  - Company story and description
  - Mission and vision
  - Team information
  - Company values

#### Admin Panel Features

##### #### Dashboard & Analytics

- \*\*AI-Powered Analytics Dashboard\*\*: Comprehensive dashboard with:
  - \*\*Statistics Cards\*\*:
    - Total Visitors with trend indicators
    - Human Visits with percentage breakdown
    - New Leads with attention alerts
    - Total Products with services count
  - \*\*Interactive Charts\*\* (Chart.js):
    - Visitor Trends: Line chart showing total and human visits over time
    - Device Distribution: Doughnut chart for desktop, mobile, tablet breakdown
    - Browser Distribution: Bar chart showing top browsers
    - Login Activity: Pie chart for successful vs failed logins
    - Leads by Status: Bar chart showing lead status distribution
  - Top Visited Pages: Horizontal bar chart for most visited URLs
  - \*\*Time Range Selection\*\*: Filter data by 7 days, 30 days, 90 days, or 1 year
  - \*\*AI-Powered Insights\*\*: Automated analysis providing:
    - Warnings for high bot traffic, login failures, new leads requiring attention

- Success messages for strong engagement
- Information about content portfolio
- **Recent Activity**: Latest leads table with unread indicators
- **Real-time Data**: All statistics update dynamically from database

#### #### Services Management

- **Service CRUD**: Complete service management with:
  - Title, slug, and descriptions
  - Icon selection (Material Design Icons)
  - Image upload with preview
  - Price range display
  - Features and benefits management
  - SEO optimization
  - Published/Draft status
  - Display order management
- **Service Details View**: Read-only view of complete service information
- **Rich Text Editor**: WYSIWYG editor for service descriptions

#### #### Products Management

- **Comprehensive Product Management**: 11-tab form system:
  1. **Basic Info**: Title, slug, SKU, short description, full description
  2. **Media**: Thumbnail and gallery images with preview and upload
  3. **Pricing**: Price, price range, show/hide price toggle
  4. **Categories & Tags**: Multi-select with auto-creation support
  5. **Specifications**: Dynamic key-value pairs for technical specs
  6. **Features**: Key features list with descriptions

7. \*\*Downloads\*\*: File uploads (PDFs, datasheets, manuals) with preview
  8. \*\*FAQs\*\*: Question-answer pairs for customer support
  9. \*\*Warranty & Service\*\*: Warranty information and service details
  10. \*\*SEO\*\*: Meta title, description, keywords, OG image
  11. \*\*Settings\*\*: Published status, featured flag, stock management, display order
- \*\*Product Details View\*\*: Complete read-only view of all product information
  - \*\*Image Management\*\*:
    - Thumbnail upload with preview
    - Gallery images with drag-and-drop reordering
    - Image deletion
    - Automatic path normalization
  - \*\*File Management\*\*:
    - Downloadable files (PDFs, ZIPs, etc.)
    - File type detection
    - File size display
    - Preview before upload

#### ##### Categories Management

- \*\*Hierarchical Categories\*\*:
  - Parent-child relationships
  - Category type filtering (product, service, etc.)
  - Category icons and images
  - Published/Draft status
  - Display order
  - SEO optimization

#### #### Tags Management

- **Tag System**:

- Tag creation and management
- Tag type filtering
- Slug auto-generation
- Tag usage tracking

#### #### Blog Management

- **Blog Post Management**:

- Complete CRUD operations for blog posts
  - Rich text editor for content
  - Featured image upload with preview
  - Excerpt management
  - Author assignment (automatic from authenticated user)
  - Category assignment (multiple categories per post)
  - Tag assignment (multiple tags per post)
  - Publication date scheduling
  - Draft/Published status
  - SEO optimization (meta title, description, keywords, OG image)
  - View counter tracking
  - Search and filter functionality
  - Sorting by title, date, views, published status
  - Pagination support
- **Blog Category Management**:
- Category CRUD operations
  - Category type filtering (post type)

- Hierarchical category support
- Category description and images
- Published/Draft status
- Display order management
- SEO optimization

#### ##### Career Management

- **Career Posting Management**:
  - Complete CRUD operations for career listings
  - Job title, slug, and department management
  - Location and employment type (full-time, part-time, contract, internship, freelance)
  - Rich text editor for job description, responsibilities, requirements, and benefits
  - Application deadline management with automatic expiration checking
  - Published/Draft status control
  - Display order management
  - Search and filter functionality (by department, location, employment type, published status)
  - Sorting by title, department, location, order, deadline, created date
  - Pagination support
  - Application count tracking per career
- **Job Application Management**:
  - Complete application tracking system
  - Application status management (new, reviewed, shortlisted, rejected, hired)
  - Applicant information (name, email, phone with Bangladesh validation)
  - Cover letter management
  - Resume file upload and download (PDF, DOC, DOCX)

- Application notes and comments
- Search and filter functionality (by status, career, applicant name/email)
- Sorting by name, email, status, application date
- Application details view with notes editing
- Statistics dashboard (total, by status, by career)
- Resume file management with automatic cleanup on deletion

#### ##### User Management

- **User Administration**:
  - User creation and editing
  - Role assignment
  - Avatar upload
  - Account status management
  - Password reset functionality

#### ##### Role & Permission Management

- **Role Management**:
  - Role creation with permissions
  - Permission assignment
  - System role protection
  - Permission grouping
- **Permission Management**:
  - Permission creation
  - Slug auto-generation
  - Permission grouping by feature
  - Flat and grouped view modes

#### #### Logs Management

- \*\*Login Logs\*\*:

- Track all login attempts
- Filter by status (success/failed)
- Search by email, IP, user agent
- Statistics dashboard
- Time-series data for trends

- \*\*Visitor Logs\*\*:

- Comprehensive visitor tracking
- Device type detection (Desktop, Mobile, Tablet)
- Browser and OS detection
- Bot detection and filtering
- IP address tracking
- URL tracking
- Referer tracking
- Statistics with device/browser/OS breakdown
- Top visited pages
- Time-series data for trends
- Bulk delete functionality

#### Public Website Features

#### #### Homepage

- \*\*Dynamic Homepage\*\*: Fully configurable homepage with:

- Hero section with customizable content

- Statistics section with animated counters
- Trusted By section with client logos
- Services showcase section
- Why Choose Us section with features
- Testimonials carousel
- Featured Products section
- Call-to-Action section
- All sections can be toggled on/off from admin

#### #### Products Display

- \*\*Product Listing Page\*\*:
    - Category-based filtering with icon buttons
    - Real-time search across titles, descriptions, SKU, and specifications
    - Multiple sorting options (newest, price, name, featured)
    - Product cards with images, quick specs, and prices
    - Featured product badges
  - \*\*Product Comparison Tool\*\*: Compare up to 3 products side-by-side with:
    - Price comparison
    - Key specifications comparison
    - Technical differences
    - Recommended use-cases
    - Quick access to product details
  - Responsive grid layout
  - Sticky filter bar on scroll
- 
- \*\*Product Detail Page\*\*:

- Hero section with product overview
- Product gallery with:
  - Main image with zoom functionality
  - Thumbnail navigation
  - Image zoom dialog for detailed viewing
- Key features section with icons
- Quick specifications sidebar
- Tabbed content:
  - **Overview**: Detailed description and benefits
  - **Technical Specs**: Complete specifications table
  - **Features**: Detailed feature list
  - **Downloads**: Datasheets, manuals, documentation (PDF, ZIP, etc.)
  - **FAQs**: Expandable FAQ section
  - **Warranty & Service**: Warranty coverage and support information
- Related products section
- Trust badges (Warranty, Delivery, Support)

#### #### Services Display

- **Services Listing**: Grid view of all published services
- **Service Detail Page**: Complete service information with features and benefits

#### #### Blog System

- **Blog Listing Page**:
  - Modern hero section with animated gradient effects
  - Real-time search across post titles, excerpts, and content
  - Category-based filtering with sidebar navigation

- Multiple sorting options (Latest, Oldest, Most Views, Title A-Z)
- Pagination support with configurable items per page
- Responsive card-based layout
- Loading states and empty state handling
- Category badges and tag display
- Author information and view counters
- Featured image support
- **Blog Detail Page**:
  - Hero section with featured image overlay
  - Full post content with rich HTML rendering
  - Breadcrumb navigation
  - Author information card
  - Social sharing (Facebook, Twitter, LinkedIn, Copy link)
  - Tags and categories display
  - Automatic view counter increment
  - Related posts placeholder
  - Styled content typography (headings, lists, blockquotes, code blocks)
  - Responsive image display
- **Blog Features**:
  - SEO-friendly URLs (slug-based)
  - Meta tags and Open Graph support
  - Category management
  - Tag system
  - Author attribution
  - Publication date management
  - Draft/Published status

- View tracking

#### ##### Career System

- \*\*Career Listing Page\*\*:

- Modern hero section with animated gradient effects
- Real-time search across job titles, departments, locations, and descriptions
- Advanced filtering:
  - Department filter (dynamically populated from available careers)
  - Location filter (dynamically populated from available careers)
  - Employment type filter (full-time, part-time, contract, internship, freelance)
  - Active careers only (automatically filters out expired deadlines)
- Responsive card-based layout with hover effects
- Career cards displaying:
  - Job title and department badge
  - Location and employment type
  - Application deadline (if set)
  - Truncated job description
  - Quick view button
  - Pagination support
  - Loading states and empty state handling
  - Clear filters functionality
- \*\*Career Detail Page\*\*:
  - Hero section with job title and key information chips
  - Comprehensive job information display:
    - Full job description with rich HTML rendering
    - Detailed responsibilities section

- Job requirements section
- Benefits and perks section
- **Job Application Form** (sidebar):
  - Full name field (required)
  - Email field with validation (required)
  - Phone field with Bangladesh phone number validation (optional)
  - Cover letter textarea
  - Resume upload (PDF, DOC, DOCX, max 5MB)
  - Application deadline display and validation
  - Active/inactive status checking
  - Form validation with user-friendly error messages
  - Success/error notifications using SweetAlert2
  - Automatic form reset on successful submission
  - Back to careers navigation
  - Responsive layout (details on left, form on right)
- **Career Features**:
  - SEO-friendly URLs (slug-based)
  - Automatic deadline expiration checking
  - Bangladesh phone number validation (supports local: 01707080401 and international: +8801707080401 formats)
  - Resume file management with secure uploads
  - Application tracking and status management
  - Only published and active careers shown to public
  - Application count per career

#### Contact & Communication

- **Contact Form**:

- Name, email, phone, subject, message fields
  - Automatic lead creation
  - Email notifications
- **Newsletter Subscription**: Footer subscription form with email verification

#### #### SEO & Performance

- **SEO Optimization**:

- Meta tags per page
- Open Graph tags
- Structured data
- Sitemap generation

- **Performance**:

- Image optimization
- Lazy loading
- Responsive images
- Fast page loads

## Prerequisites

- PHP 8.2 or higher
- Composer
- Node.js & npm
- MySQL/PostgreSQL/SQLite

## Installation

### 1. Clone and Install Dependencies

```
```bash
git clone <repository-url>
cd s_h_micro_control
composer install
npm install
````
```

### 2. Environment Setup

```
```bash
cp .env.example .env
php artisan key:generate
````
```

Configure your `\*.env` file:

- Database connection
- `APP\_URL`
- Mail settings (for notifications)

### 3. Database Setup

```
```bash
php artisan migrate
```

```
php artisan db:seed
```

```
```
```

This will create:

- All database tables
- Module definitions (disabled by default)
- Default admin user

#### 4. Build Assets

```
```bash
```

```
npm run dev # Development
```

**or**

```
npm run build # Production
```

```
```
```

#### 5. Start Development Server

```
```bash
```

```
php artisan serve
```

```
npm run dev
```

```
```
```

Visit:

- Public website: `http://localhost:8000`
- Admin panel: `http://localhost:8000/admin/login`

## Default Admin Credentials

- \*\*Email\*\*: admin@example.com
- \*\*Password\*\*: password

 \*\*Change these immediately in production!\*\*

## API Documentation

### [Admin API \(`/api/v1/`\)](#)

All admin endpoints require authentication via Bearer token.

#### \*\*Authentication:\*\*

- `POST /api/v1/auth/login` - Login
- `POST /api/v1/auth/logout` - Logout
- `GET /api/v1/auth/user` - Get current user

#### \*\*About Page Management:\*\*

- `GET /api/v1/about` - Get about page (requires `manage-pages` permission)
- `POST /api/v1/about` - Create/update about page (requires `manage-pages` permission)
- `PUT /api/v1/about` - Update about page (requires `manage-pages` permission)

#### \*\*Blog Management:\*\*

- `GET /api/v1/blog-posts` - List blog posts (with pagination, filtering, sorting, search) (requires `manage-pages` permission)

- `POST /api/v1/blog-posts` - Create blog post (requires `manage-pages` permission)
- `GET /api/v1/blog-posts/{id}` - Get blog post (by ID or slug) (requires `manage-pages` permission)
- `PUT /api/v1/blog-posts/{id}` - Update blog post (requires `manage-pages` permission)
- `DELETE /api/v1/blog-posts/{id}` - Delete blog post (requires `manage-pages` permission)
- `GET /api/v1/blog-categories` - List blog categories (requires `manage-pages` permission)
- `POST /api/v1/blog-categories` - Create blog category (requires `manage-pages` permission)
- `GET /api/v1/blog-categories/{id}` - Get blog category (requires `manage-pages` permission)
- `PUT /api/v1/blog-categories/{id}` - Update blog category (requires `manage-pages` permission)
- `DELETE /api/v1/blog-categories/{id}` - Delete blog category (requires `manage-pages` permission)

#### **\*\*Career Management:\*\***

- `GET /api/v1/careers` - List careers (with pagination, filtering, sorting, search) (requires `manage-pages` permission)
- `POST /api/v1/careers` - Create career (requires `manage-pages` permission)
- `GET /api/v1/careers/{id}` - Get career (by ID or slug) (requires `manage-pages` permission)
- `PUT /api/v1/careers/{id}` - Update career (requires `manage-pages` permission)
- `DELETE /api/v1/careers/{id}` - Delete career (requires `manage-pages` permission)

#### **\*\*Job Application Management:\*\***

- `GET /api/v1/job-applications` - List job applications (with pagination, filtering, sorting, search) (requires `view-leads` permission)
- `GET /api/v1/job-applications/{id}` - Get job application (requires `view-leads` permission)

- `PUT /api/v1/job-applications/{id}` - Update job application status/notes (requires `manage-leads` permission)
- `DELETE /api/v1/job-applications/{id}` - Delete job application (requires `manage-leads` permission)
- `GET /api/v1/job-applications/statistics` - Get application statistics (requires `view-leads` permission)

#### **\*\*Services Management:\*\***

- `GET /api/v1/services` - List services (with pagination, filtering, sorting)
- `POST /api/v1/services` - Create service (requires `manage-services` permission)
- `GET /api/v1/services/{id}` - Get service (by ID or slug)
- `PUT /api/v1/services/{id}` - Update service (requires `manage-services` permission)
- `DELETE /api/v1/services/{id}` - Delete service (requires `manage-services` permission)

#### **\*\*Product Management:\*\***

- `GET /api/v1/products` - List products (with pagination, filtering, sorting, search)
- `POST /api/v1/products` - Create product (requires `manage-products` permission)
- `GET /api/v1/products/{id}` - Get product (by ID or slug, includes all relationships)
- `PUT /api/v1/products/{id}` - Update product (requires `manage-products` permission)
- `DELETE /api/v1/products/{id}` - Delete product (requires `manage-products` permission)

#### **\*\*Category Management:\*\***

- `GET /api/v1/categories` - List categories (supports filtering by type, parent\_id, published)
- `POST /api/v1/categories` - Create category (requires `manage-products` permission)
- `GET /api/v1/categories/{id}` - Get category (by ID or slug)
- `PUT /api/v1/categories/{id}` - Update category (requires `manage-products` permission)

- `DELETE /api/v1/categories/{id}` - Delete category (requires `manage-products` permission)

**\*\*Tag Management:\*\***

- `GET /api/v1/tags` - List tags (supports filtering by type, search)
- `POST /api/v1/tags` - Create tag (requires `manage-products` permission)
- `GET /api/v1/tags/{id}` - Get tag (by ID or slug)
- `PUT /api/v1/tags/{id}` - Update tag (requires `manage-products` permission)
- `DELETE /api/v1/tags/{id}` - Delete tag (requires `manage-products` permission)

**\*\*File Upload:\*\***

- `POST /api/v1/upload/image` - Upload single image (requires authentication)
- `POST /api/v1/upload/images` - Upload multiple images (requires authentication)
- `POST /api/v1/upload/file` - Upload file (PDF, DOC, ZIP, etc.) (requires authentication)
- `DELETE /api/v1/upload/image` - Delete image (requires authentication)

**\*\*Leads Management:\*\***

- `GET /api/v1/leads` - List leads (with pagination, filtering, sorting, search) (requires `view-leads` permission)
- `GET /api/v1/leads/statistics` - Get leads statistics with time-series data (requires `view-leads` permission)
- `GET /api/v1/leads/unread-count` - Get count of unread leads (requires `view-leads` permission)
- `GET /api/v1/leads/{id}` - Get lead details (requires `view-leads` permission)
- `POST /api/v1/leads/{id}/mark-as-read` - Mark lead as read (requires `view-leads` permission)
- `PUT /api/v1/leads/{id}` - Update lead (requires `manage-leads` permission)
- `DELETE /api/v1/leads/{id}` - Delete lead (requires `manage-leads` permission)

- `GET /api/v1/leads/export/csv` - Export leads to CSV (requires `export-leads` permission)

#### **\*\*Newsletter Subscriptions:\*\***

- `GET /api/v1/newsletters` - List newsletter subscriptions (requires `view-leads` permission)
- `GET /api/v1/newsletters/{id}` - Get subscription details (requires `view-leads` permission)
- `PUT /api/v1/newsletters/{id}` - Update subscription status (requires `manage-leads` permission)
- `DELETE /api/v1/newsletters/{id}` - Delete subscription (requires `manage-leads` permission)
- `GET /api/v1/newsletters/export/csv` - Export subscriptions to CSV (requires `manage-leads` permission)

#### **\*\*User Management:\*\***

- `GET /api/v1/users` - List users (requires `manage-users` permission)
- `POST /api/v1/users` - Create user (requires `manage-users` permission)
- `GET /api/v1/users/{id}` - Get user (requires `manage-users` permission)
- `PUT /api/v1/users/{id}` - Update user (requires `manage-users` permission)
- `DELETE /api/v1/users/{id}` - Delete user (requires `manage-users` permission)

#### **\*\*Role & Permission Management:\*\***

- `GET /api/v1/roles` - List roles (requires `manage-roles` permission)
- `POST /api/v1/roles` - Create role (requires `manage-roles` permission)
- `PUT /api/v1/roles/{id}` - Update role (requires `manage-roles` permission)
- `PUT /api/v1/roles/{id}/permissions` - Sync role permissions (requires `manage-roles` permission)
- `DELETE /api/v1/roles/{id}` - Delete role (requires `manage-roles` permission)

- `GET /api/v1/permissions` - List permissions (requires `manage-roles` permission)
- `GET /api/v1/permissions/groups` - Get permission groups (requires `manage-roles` permission)
- `POST /api/v1/permissions` - Create permission (requires `manage-roles` permission)
- `PUT /api/v1/permissions/{id}` - Update permission (requires `manage-roles` permission)
- `DELETE /api/v1/permissions/{id}` - Delete permission (requires `manage-roles` permission)

#### \*\*Logs & Analytics:\*\*

- `GET /api/v1/login-logs` - List login logs (with pagination, filtering, sorting) (requires `view-login-logs` permission)
- `GET /api/v1/login-logs/statistics` - Get login statistics with time-series data (requires `view-login-logs` permission)
- `GET /api/v1/login-logs/{id}` - Get login log details (requires `view-login-logs` permission)
- `DELETE /api/v1/login-logs/{id}` - Delete login log (requires `view-login-logs` permission)
- `GET /api/v1/visitor-logs` - List visitor logs (with pagination, filtering, sorting, search) (requires `view-visitor-logs` permission)
- `GET /api/v1/visitor-logs/statistics` - Get visitor statistics with time-series data (requires `view-visitor-logs` permission)
- `GET /api/v1/visitor-logs/{id}` - Get visitor log details (requires `view-visitor-logs` permission)
- `DELETE /api/v1/visitor-logs/{id}` - Delete visitor log (requires `view-visitor-logs` permission)
- `POST /api/v1/visitor-logs/delete-multiple` - Delete multiple visitor logs (requires `view-visitor-logs` permission)

#### \*\*Settings:\*\*

- `GET /api/v1/settings` - Get all settings (requires authentication)

- `PUT /api/v1/settings` - Update settings (requires `manage-settings` permission)

## Public API (`/api/openapi/`)

- `GET /api/openapi/home` - Homepage data (includes home page settings and featured content)
- `GET /api/openapi/pages/{slug}` - Get page by slug (for public page viewing)
- `GET /api/openapi/services` - List published services
- `GET /api/openapi/services/{slug}` - Get service by slug
- `GET /api/openapi/products` - List published products (supports category filter, search, sorting)
- `GET /api/openapi/products/{slug}` - Get product by slug (includes categories, tags, specifications, downloads)
- `GET /api/openapi/categories` - List categories (supports type filter, pagination)
- `GET /api/openapi/blog` - List published blog posts (supports search, category filter, tag filter, sorting, pagination)
- `GET /api/openapi/blog/{slug}` - Get blog post by slug (includes author, categories, tags, auto-increments views)
- `GET /api/openapi/blog/categories` - List published blog categories

### \*\*Career (Public):\*\*

- `GET /api/openapi/careers` - List published and active careers (supports search, department, location, employment type filters, active\_only flag, sorting, pagination, returns filter options)
- `GET /api/openapi/careers/{slug}` - Get career by slug (includes application count, active status check)
- `POST /api/openapi/careers/apply` - Submit job application (with resume upload, Bangladesh phone validation, deadline checking)
- `GET /api/openapi/about` - Get about page content
- `GET /api/openapi/settings` - Get public settings

- `POST /api/openapi/contact` - Submit contact form (creates lead)
- `POST /api/openapi/newsletter/subscribe` - Subscribe to newsletter

## Module Configuration

Modules are stored in the `modules` table. To enable a module:

**\*\*Via Code:\*\***

```
```php
Module::where('name', 'services')->update(['enabled' => true]);
```
```

```

**\*\*Via Database:\*\***

```
```sql
UPDATE modules SET enabled = 1 WHERE name = 'services';
```
```

```

**\*\*Available Modules:\*\***

- `services` - Services catalog
- `products` - Products catalog
- `portfolio` - Portfolio/Projects
- `blog` - Blog/News
- `faq` - FAQ
- `careers` - Careers & Recruitment
- `booking` - Appointment booking
- `events` - Events & Registrations

- `branches` - Multi-location/Branches
- `ecommerce` - E-commerce (future)
- `multilanguage` - Multi-language support (future)

## Project Structure

...

app/

```
|   └── Http/
|       |   └── Controllers/
|       |       |   └── Api/      # Admin API controllers
|       |       |       |   └── auth/
|       |       |       |   └── about/
|       |       |       |   └── blog/
|       |       |       |   └── leads/
|       |       |       |   └── NewsletterController.php
|       |       |       |   └── logs/
|       |       |       |   └── products/
|       |       |       |   └── settings/
|       |       |       |   └── upload/
|       |       |       └── users/
|       |           |   └── Public/    # Public website controllers
|       |               |   └── pages/
|       |               |   └── blog/
|       |               |   └── NewsletterController.php
|       |               |   └── products/
```

```
| |    └── services/
|   └── Middleware/      # Authentication & authorization
└── Models/            # Eloquent models
```

```
database/
├── migrations/      # Database migrations
└── seeders/        # Database seeders
```

```
resources/
├── js/
|   ├── components/
|   |   ├── admin/      # Admin panel components
|   |   ├── auth/
|   |   ├── about/
|   |   ├── blog/
|   |   ├── leads/
|   |   ├── newsletters/
|   |   ├── logs/
|   |   ├── products/
|   |   ├── settings/
|   |   └── users/
|       └── public/      # Public website components
|           ├── pages/
|           ├── blog/
|           ├── products/
|           └── services/
```

```
|   └── mixins/      # Vue mixins
|   └── plugins/     # Vue plugins (Vuetify, SweetAlert, ProgressBar)
|   └── routes.js     # Vue Router configuration
|   └── utils/        # Utility functions
└── sass/
    └── app.scss      # Main stylesheet
```

```
routes/
├── api.php        # API routes
└── web.php        # Web routes (includes public API)
```

```
public/
└── uploads/       # Uploaded files (images, documents)
    ├── products/
    └── ...
```

...

## Security

- Admin routes protected with Laravel Sanctum
- Password hashing
- CSRF protection
- XSS protection
- SQL injection protection (Eloquent ORM)
- Role-based access control (RBAC)
- Permission-based route protection

- Bot detection and filtering
- IP address tracking for security

## Notes

- This is a foundational structure that can be expanded
- All core models and relationships are set up
- Additional features can be added incrementally
- The platform is designed to be modular and configurable
- Product management includes comprehensive features for industrial/tech product websites
- File uploads are stored in `public/uploads/{folder}/` for easy access
- Dashboard includes AI-powered insights and real-time analytics
- All charts use Chart.js for modern, interactive visualizations

## Development

### Adding a New Module

1. Create migration: `php artisan make:migration create\_[module]\_table`
2. Create model: `php artisan make:model [Module]`
3. Create controller: `php artisan make:controller Api/[Module]Controller --api`
4. Add to ModuleSeeder
5. Create Vue components
6. Update routes

## Testing

```
```bash
php artisan test
```
```

```

## License

This project is open-sourced software licensed under the [MIT license](<https://opensource.org/licenses/MIT>).

## Contributing

Contributions are welcome! Please feel free to submit a Pull Request.