

SFG Aluminium Ltd - Comprehensive Chat Extraction & Project Documentation

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Current Version: v1.1.0

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EXECUTIVE SUMMARY

Project Identity

- **Client:** SFG Aluminium Ltd (NOT SFG Innovations - strict brand separation required)
- **Scope:** 100+ page comprehensive UK aluminium and construction website
- **Primary Goals:** Lead generation, sales conversion, customer self-service
- **Target Market:** UK commercial sector (retail, leisure, education, healthcare, industrial, offices, residential/BTR, public sector)

Critical Project Constraints

1. **Brand Separation:** MUST maintain complete independence from SFG Innovations
 - Distinct domains and email addresses
 - SFG Innovations tools ONLY accessible via /apps microfrontends
 - No group/sister company language permitted
2. **Design Theme:** Warren Executive Theme (light background, professional aesthetic)
 - White backgrounds with dark text for readability
 - SFG Aluminium brand colors: Navy (#0B1426), Platinum (#E8E9EA), Electric Blue (#00D4FF), Copper (#B87333)
 - NOT the SFG Innovations aesthetic

3. Services Model: Pre-Planned Maintenance (PPM) ONLY

- NO 24/7 emergency services
- NO reactive call-out messaging
- Focus on scheduled maintenance and preventative care

PROJECT EVOLUTION TIMELINE

Phase 1: Original Vision (August 2024)

Source: user_message_2025-08-11_20-18-06.txt

Specifications:

- 180+ pages at launch (minimum 100)
- Microfrontends host at /apps with magic-link authentication
- Session management: 48h magic-link, 90-day session cookies
- Security: watermarked prints, no anonymous downloads
- Hosting: Vercel/Azure for SSR, proxy APIs to Azure Functions

Information Architecture:

Total ~180 pages breakdown:

- Home (1)
- Products (60) = 10 categories \times 6 subpages each
 - Categories:** shopfronts, windows, manual doors, automatic doors (BS EN 16005), fire-exit doors, steel doors, curtain walling, roller shutters/grilles, glazing/balustrades, accessories/hardware
 - Subpages:** overview, specifications, configurations/options, finishes/colours, compliance/testing (UKCA/PAS 24/Parts), gallery/case studies
- Services (7): spraying & maintenance (4), reactive repairs/call-outs (3)
- Sectors (8): retail, leisure, education, healthcare, industrial, offices, residential/BTR, public sector
- Projects & Case Studies (25): index + 24 case studies
- Compliance summaries (13): Parts A/B/F/K/L/M/Q/0, UKCA & DoP, testing & certifications, installer competency, document index
- Resources & Knowledge (23): index + 20 articles + FAQs + glossary
- Pricing & Quotations (4): overview, quote form, trade accounts, finance note
- About (6): company, heritage & resilience, team, accreditations, H&S, sustainability
- Contact & Support (5): contact, book a survey, book a repair, warranty & returns, sp are parts
- Blog/News (13): index + 12 posts
- Careers (4): overview, openings, apprenticeships, installer network
- Legal & Policies (8): privacy, terms, cookies, modern slavery, anti-bribery, environmental, quality, H&S
- /apps microfrontends (16): gate, verify, index, [slug] \times 12 slugs

Product Subpage Template (Standard for all 10 categories):

- Overview: Hero + spec chips; tabs; CTAs (Quote/Survey); related case studies; gated downloads prompt
- Specifications: Spec table (sizes, U-values, glazing, hardware, thresholds); inline compliance flags (Part L/K/M/Q); CTA to /apps/spec-pack-pro
- Options & Finishes: Colour systems (RAL/BS), textures, handles/hardware, thresholds, glass types; warranty, care & maintenance
- Compliance: UKCA | PAS 24 | Part L/B/K/M/F/Q matrix; evidence (test refs, DoP numbers, installer

competency); gated docs

- Gallery/Case Studies: Project photos, customer testimonials, optional gated PDF

Phase 2: Design Override (August 2024)

Source: user_message_2025-08-11_23-11-30.txt

Critical Override Directive:

“this these overides # SFG Innovations - Aluminium Fabrication Technology Website... overides the directive, on home page design hero, but all other parameters stay.”

What This Means:

- The SFG Innovations hero design concept (3D visualization, immersive experience) was to be applied to the hero section ONLY
- All other parameters from the original 180+ page specification remained in effect
- This created a hybrid approach: innovative hero with comprehensive site structure

Hero Section Override Features:

- 3D Three.js visualization of aluminium products
- Interactive orbit controls
- Realistic aluminium material rendering
- Animated floating elements
- Video demonstrations
- Dynamic statistics display

Phase 3: Content Research & Development (PDF Conversation)

Source: SFG Website llm chat conversation.pdf (176 pages)

Key Content Decisions from Early Conversation:

1. 6-Page Foundation Website (Initial Build):

- Home/Welcome
- Products & Services
- About Us
- Projects & Case Studies
- Pricing & Quotations
- Contact & Support

2. Content Strategy Pillars:

- Trust building through transparency
- UK compliance at forefront
- Sustainability messaging
- Digital transformation narrative
- Technical expertise demonstration

3. Emerging Tech Integration:

- AI-driven design automation (AutoCAD + Abacus.AI)
- Digital twin technology for client visualization
- IoT-enabled smart building integration
- BIM workflow readiness
- Automated quotation tools

4. Files Referenced for Content:

- Design Prompt for SFG Aluminium Limited_Hostinger.docx
- SFG Aluminium Logo Design.png
- Company accounts and financials
- Warren Heathcote CV Sept 2024.docx
- Technical specifications PDFs
- Pricing templates (Excel)
- Customer information documents
- Insurance and compliance certificates

Phase 4: Current Implementation (October 2025)

Source: Current conversation + VERSION.md

Implemented Features (v1.0.0 - v1.1.0):

- Foundation website with hero section, header, footer
- Version tracking system (VERSION.md, version.ts, VersionBadge component)
- Authentication framework (API routes: signin, signup, session management)
- Advanced hero video design specification
- PPM services messaging (NO emergency services)
- Contact form, quote request form, service inquiry form
- Products, Services, About, Contact pages
- Database schema (Prisma) for contacts, quotes, service inquiries
- Universal Task Framework documentation
- Comprehensive handover documentation

CRITICAL SPECIFICATIONS & DECISIONS

1. SERVICES MODEL CHANGE

Decision Date: October 2025

Critical Change: Services messaging updated from "24/7 emergency" to "PPM only"

Implementation:

OLD: "24/7 Emergency Repairs & Reactive Services"
 NEW: "Pre-Planned Maintenance (PPM) Services"

Reasoning:

- Align with actual business model
- Set correct customer expectations
- Focus on scheduled maintenance contracts
- Preventative care emphasis

Pages Affected:

- /services page
- Home page services section
- Footer service links
- Service inquiry forms
- Quote request forms

2. VERSION TRACKING SYSTEM

Decision Date: October 2025

Purpose: Maintain continuity across agent handovers and track all changes

Implementation:

- VERSION.md file (markdown log)
- lib/version.ts (TypeScript export)
- components/version-badge.tsx (UI component)
- Footer display of version number

Version Log Structure:

```
# SFG Aluminium Ltd - Version Control

## v1.1.0 - [Date]
### Changes
- [List of changes]
### Files Modified
- [Files changed]
### Testing
- [Test results]
```

3. AUTHENTICATION FRAMEWORK

Decision Date: October 2025

Implementation: NextAuth.js with Prisma adapter

API Routes Created:

- /api/auth/[...nextauth] - Main NextAuth endpoint
- /api/auth/signin - Custom sign-in logic
- /api/auth/signup - User registration
- /api/auth/session - Session verification
- /api/auth/status - Auth status check
- /api/auth/csrf - CSRF token
- /api/auth/providers - Auth providers list

Database Schema:

```
model User {
  id          String    @id @default(uuid())
  email       String    @unique
  password    String
  name        String?
  role        String    @default("user")
  createdAt   DateTime  @default(now())
  updatedAt   DateTime  @updatedAt
}
```

4. HERO VIDEO SPECIFICATION

Decision Date: October 2025

Purpose: Create immersive, brand-appropriate hero experience

Requirements:

- Duration: 15-30 seconds, seamless loop

- Content focus: Aluminium fabrication, powder coating, installation
- Visual style: Warren Executive Theme (professional, not industrial gritty)
- Multiple formats for device optimization:
- Desktop: 1920×1080 (16:9)
- Tablet: 1024×768 (4:3)
- Mobile: 375×667 (9:16 portrait)
- Fallback: Poster image

Implementation:

- `components/advanced-hero-video.tsx` component
- Responsive video sources
- Accessibility features (pause controls, reduced motion support)
- Performance optimization (lazy loading, preload hints)

Video Assets Structure:

```
/public/videos/
├── hero-desktop-1920x1080.mp4
├── hero-tablet-1024x768.mp4
├── hero-mobile-375x667.mp4
└── hero-fallback.jpg
```

5. UNIFIED APPLICATION INVENTORY

Decision Date: October 2025

Purpose: Document all SFG ecosystem applications for /apps microfrontends

Scope:

- Core SFG applications (both companies)
- Microsoft 365 environment
- Business procedures documentation
- Integration points
- Access control requirements

Structure:

```
# Application Name
- **Type:** [Core/Utility/Integration]
- **Owner:** [SFG Aluminium/SFG Innovations/Shared]
- **Platform:** [Web/Desktop/Mobile/API]
- **Authentication:** [Method]
- **Integration Status:** [Active/Planned/Legacy]
- **Access Level:** [Public/Gated/Internal]
```

BRAND IDENTITY & DESIGN GUIDELINES

Warren Executive Theme

Source: `warren_executive_theme_complete.pdf` (referenced)

Core Principles:

1. Light Background Philosophy

- White (#FFFFFF) or off-white backgrounds
- Dark text for optimal readability
- Professional, clean aesthetic
- High contrast ratios (WCAG 2.2 AA compliant)

1. Color Palette:

```

Primary:

- Navy: #0B1426 (text, headings, primary brand)
- Platinum: #E8E9EA (backgrounds, dividers, subtle accents)

Accent:

- Electric Blue: #00D4FF (CTAs, links, interactive elements)
- Copper: #B87333 (highlights, secondary CTAs)
- Dark Copper: #9a5e2a (hover states)

```

1. Typography:

- Headings: Montserrat (bold, professional)
- Body: Inter (readable, modern sans-serif)
- Code/Technical: Monospace

2. Spacing & Layout:

- Generous white space
- Clear visual hierarchy
- Grid-based layouts
- Consistent padding/margins

3. Components:

- Rounded corners (8px, 12px, 16px)
- Subtle shadows for depth
- Smooth transitions (200-300ms)
- Hover states on interactive elements

Brand Separation Rules

SFG Aluminium Ltd Identity:

- Logo: SFG Aluminium Logo Design.png
- Domain: [Primary domain for SFG Aluminium]
- Email: @sfg-aluminium.co.uk (or similar)
- Services: Commercial aluminium fabrication, installation, PPM maintenance
- Tone: Professional, reliable, compliant, customer-focused

SFG Innovations Identity (Kept Separate):

- Logo: SFG Innovations branding
- Domain: Separate domain (only referenced in /apps)
- Email: @sfg-innovations.com (or similar)
- Services: Technology, software, innovation tools
- Tone: Innovative, technical, cutting-edge

Critical Rule:

NEVER imply group/sister relationship. SFG Innovations tools are “third-party applications” accessible via /apps, not family companies.

TECHNICAL ARCHITECTURE

Stack

```
Framework: Next.js 14.2.28 (App Router)
Language: TypeScript 5.2.2
Styling: Tailwind CSS 3.3.3
UI Components: shadcn/ui (Radix UI primitives)
Database: PostgreSQL with Prisma 6.7.0
Authentication: NextAuth.js 4.24.11
Package Manager: Yarn
```

Project Structure

```
/home/ubuntu/sfg_aluminium_ltd/app/
├── app/
│   ├── page.tsx                                     # Next.js app directory
│   ├── layout.tsx                                    # Home page
│   ├── globals.css                                   # Root layout
│   ├── about/page.tsx                             # Global styles
│   ├── products/page.tsx                          # About page
│   ├── services/page.tsx                         # Products page
│   ├── contact/page.tsx                          # Services page (PPM focus)
│   └── auth/
│       ├── signin/page.tsx                      # Contact page
│       └── signup/page.tsx                      # Auth pages
│
│   └── api/
│       ├── auth/                                  # API routes
│       ├── contact/                            # Auth endpoints
│       ├── quote/                               # Contact form handler
│       └── service/                            # Quote request handler
│
└── components/
    ├── header.tsx                                # Service inquiry handler
    ├── footer.tsx                                 # React components
    ├── hero-section.tsx
    ├── advanced-hero-video.tsx
    ├── version-badge.tsx
    ├── contact-form.tsx
    ├── quote-request-form.tsx
    ├── service-inquiry-form.tsx
    └── ui/
        └── shadcn/ui components
            └── components
                ├── button.tsx
                ├── card.tsx
                ├── dropdown.tsx
                ├── input.tsx
                ├── modal.tsx
                ├── overlay.tsx
                ├── progress.tsx
                ├── select.tsx
                ├── switch.tsx
                └── toast.tsx
            └── types.ts
            └── utils.ts
            └── version.ts
        └── lib/
            ├── db.ts
            ├── types.ts
            ├── utils.ts
            └── version.ts
        └── prisma/
            └── schema.prisma
        └── public/
            └── videos/
            └── package.json
            └── tsconfig.json
            └── next.config.js
```

Database Schema (Prisma)

```
// Contact Form Submissions
model Contact {
    id      String  @id @default(uuid())
    name    String
    email   String
    phone   String?
    company String?
    message String
    createdAt DateTime @default(now())
}

// Quote Requests
model Quote {
    id      String  @id @default(uuid())
    name    String
    email   String
    phone   String
    company String?
    projectType String
    description String
    budget   String?
    timeline  String?
    createdAt DateTime @default(now())
}

// Service Inquiries
model ServiceInquiry {
    id      String  @id @default(uuid())
    name    String
    email   String
    phone   String
    serviceType String
    description String
    preferredDate DateTime?
    createdAt DateTime @default(now())
}

// Users (for authentication)
model User {
    id      String  @id @default(uuid())
    email   String  @unique
    password String
    name    String?
    role    String  @default("user")
    createdAt DateTime @default(now())
    updatedAt DateTime @updatedAt
}
```

API Endpoints

Public Endpoints:

- POST /api/contact - Submit contact form
- POST /api/quote - Request quote
- POST /api/service - Service inquiry

Auth Endpoints:

- POST /api/auth/signin - User sign-in
- POST /api/auth/signup - User registration

- GET /api/auth/session - Get current session
- GET /api/auth/status - Auth status
- GET /api/auth/csrf - CSRF token
- GET /api/auth/providers - Available providers

Future /apps Endpoints (Microfrontends):

- GET /apps - Apps directory/index
- GET /apps/gate - Magic-link authentication gate
- POST /apps/verify - Verify magic-link token
- GET /apps/[slug] - Individual app routes (12 apps planned)

Deployment

Current Status:

- Deployed at: sfg-website-2025.abacusai.app
 - Hosting: Abacus.AI platform
 - Build tool: Yarn
 - CI/CD: Checkpoint system (build_and_save_nextjs_project_checkpoint)
-

CONTENT STRATEGY & REQUIREMENTS

Content Pillars

1. Trust & Credibility

- UK compliance certifications (UKCA, PAS 24, Parts L/B/K/M/Q/F)
- Insurance documentation
- Project portfolio
- Client testimonials
- Team expertise

2. Technical Excellence

- Detailed product specifications
- Material data sheets
- Installation guides
- Compliance documentation
- Quality control processes

3. Sustainability

- Eco-friendly powder coating
- Energy-efficient products (Part L compliance)
- Waste reduction practices
- Lifecycle maintenance
- Green building standards

4. Digital Innovation

- CAD automation
- Digital twin visualization
- BIM integration
- AI-powered quotation
- Project management tools

5. Customer Service

- PPM maintenance contracts
- Transparent pricing
- Online quotation
- Project tracking
- Warranty & support

Content Sources (From Chat Logs)

Files Available for Content Extraction:

- SFG_Aluminium_Design_Brief.pdf
- technical_specifications.pdf
- Warren Heathcote CV Sept 2024.docx
- SFG_Aluminium_June_2025_Strategic_Report.docx
- Liability insurance 2024-2025 Email chats.docx
- SFG Aluminium Insurance Inspection.pdf
- Customer SFG aluminium Information.docx
- SFG_Aluminium_Pricing_Template.xlsx
- SD SFG Pricing 30.04.2024 Mo.xlsx
- Curtain Wall Pricing.xlsx
- Framless Shopfront.xlsx
- Quotation Template SFG Aluminium.docx
- Competitor Benchmarking Module.docx
- Office SFG Aluminium Information.pdf
- Proforma procedure.pdf
- Production control measures.pdf
- Risk_Assessment_Compliance_Checklist_2025-07-28.pdf
- warren_executive_theme_complete.pdf
- automation_capabilities.pdf
- AutoCAD_Abacus_AI_Integration_Guide.pdf

SEO Keywords (From PDF Chat)

Primary:

- UK aluminium windows
- commercial roller shutters
- curtain walling UK
- aluminium shopfronts
- powder coating services UK
- fire safety compliant aluminium

Secondary:

- Part L compliant windows
- UKCA aluminium doors
- commercial window installation
- aluminium fabrication UK
- sustainable aluminium products
- thermal efficient glazing

Long-tail:

- "commercial aluminium window installation London"
- "UKCA compliant fire doors UK"
- "sustainable powder coating services"
- "Part L thermal efficient curtain walling"

Content Tone Guidelines

- Professional but approachable
 - Technical when needed, but explained clearly
 - UK English spelling and grammar
 - Direct and transparent about pricing
 - Confident without being boastful
 - Solution-focused, not problem-focused
 - Regulatory compliance as a strength, not burden
-

COMPLIANCE & REGULATIONS

UK Building Regulations Scope

Part A: Structure

- Load-bearing requirements for curtain walls
- Fixing and anchorage specifications
- Wind load calculations

Part B: Fire Safety

- Fire resistance ratings for doors and windows
- Compartmentation requirements
- Emergency exit compliance
- Fire door specifications (30-minute, 60-minute, 120-minute)

Part F: Ventilation

- Trickle vent requirements
- Openable area calculations
- Background ventilation standards

Part K: Protection from Falling

- Guarding and barrier heights
- Glazing safety requirements
- Manifestation for glass

Part L: Conservation of Fuel and Power (2021/22 uplift)

- U-value requirements (windows, doors, curtain walling)
- Thermal bridging details
- Air permeability testing
- Future Homes Standard readiness

Part M: Access and Use

- Accessible entrance requirements
- Door opening forces
- Threshold levels
- Contrast and manifestation

Part Q: Security

- Secured by Design compliance
- PAS 24 testing
- Resistance to forced entry

UKCA Marking & DoP

- Declaration of Performance (DoP) for all products
- UKCA marking requirements post-Brexit
- CE marking transition periods
- Test reports and certification

Industry Standards

- **BS EN 16005:** Automatic doors safety standard
- **PAS 24:** Security testing for doors and windows
- **BS 6180:** Barriers in and about buildings
- **BS 8213-4:** Routine maintenance of windows and doors

Compliance Documentation Strategy

- **Public pages:** Summary compliance information, trust signals
 - **Gated /apps content:** Full DoP documents, test reports, technical specifications
 - **Product pages:** Inline compliance flags and quick-reference tables
 - **Dedicated compliance section:** Deep-dive into each Part with evidence
-

INTEGRATION REQUIREMENTS

Microsoft 365 Integration

SharePoint:

- Lead capture storage
- Document repository
- Quote submission tracking
- Project file management

Microsoft Graph API:

- `sendMail` for notifications
- Calendar integration for site visits
- Teams alerts for new leads
- Contact synchronization

Power BI (Internal Only):

- Sales pipeline dashboard
- Lead conversion metrics
- Project profitability analysis
- Inventory tracking

Third-Party Integrations (Planned)

CAD Systems:

- AutoCAD integration for design automation
- Abacus.AI CAD sync
- DWG/DXF file handling
- BIM export capabilities

CRM Integration:

- Lead routing from web forms
- Contact management
- Follow-up automation
- Sales pipeline tracking

Payment Gateway (Future):

- Stripe or similar for deposits
- Secure payment processing
- Invoice generation
- Receipt automation

Analytics:

- GA4 implementation
- Event tracking:
- Quote submissions
- Contact form submissions
- Downloads (gated)
- /apps gate/verify
- Per-slug usage in /apps
- Conversion funnel analysis
- User journey mapping

/apps Microfrontends Integration

Architecture:

- Module Federation for independent deployment
- Shared authentication state
- Common UI chrome (SFG Aluminium branding)
- Individual remote apps (SFG Innovations branding within)

Security:

- Magic-link authentication (48-hour validity)
- Session cookies (90-day duration, httpOnly, Secure)
- Downloads via `/api/download` endpoint only
- Files stored outside `/public` directory
- Print watermarking (user email + timestamp)
- Content Security Policy (CSP) restrictions

Planned Apps (12 total):

1. quote-copilot - AI-assisted quotation
2. spec-pack-pro - Technical specification generator
3. rams - Risk Assessment & Method Statements
4. o-and-m - Operations & Maintenance manuals
5. scheduler - Project scheduling tool
6. cad-sync - CAD file synchronization
7. crm-bridge - CRM integration hub
8. cost-tracker - Project cost management
9. installer - Installer resource portal
10. site-photos - Site documentation & photos
11. compliance-hub - Deep compliance documentation
12. analytics - Business intelligence dashboard

PAGE INVENTORY & STRUCTURE

Phase 1: Foundation (Current - v1.1.0)

Implemented:

- / (Home)
- /about
- /products
- /services (PPM focus)
- /contact
- /auth/signin
- /auth/signup

Phase 2: Expansion (Next Steps)

 Planned:

- /products/[category] (10 categories)
 - /products/shopfronts
 - /products/windows
 - /products/manual-doors
 - /products/automatic-doors
 - /products/fire-**exit**-doors
 - /products/steel-doors
 - /products/curtain-walling
 - /products/roller-shutters-grilles
 - /products/glazing-balustrades
 - /products/accessories-hardware

- /products/[category]/[subpage] (6 subpages ~~x~~ 10 categories = 60 pages)

For each category:

 - /overview
 - /specifications
 - /options
 - /compliance
 - /gallery
 - /**case**-studies

- /services/[service] (7 service pages)

Maintenance & **Spraying**:

 - /services/powder-coating
 - /services/scheduled-maintenance
 - /services/refurbishment
 - /services/warranty-repairs

(Note: Reactive repairs removed - PPM focus **only**)

- /sectors (8 sector pages)
 - /sectors/retail
 - /sectors/leisure
 - /sectors/education
 - /sectors/healthcare
 - /sectors/industrial
 - /sectors/offices
 - /sectors/residential-btr
 - /sectors/**public**-sector

- /projects (25 pages)
 - /projects (**index**)
 - /projects/[project-slug] (24 **case** studies)

- /compliance (13 pages)
 - /compliance (overview)
 - /compliance/part-a
 - /compliance/part-b
 - /compliance/part-f
 - /compliance/part-k
 - /compliance/part-l
 - /compliance/part-m
 - /compliance/part-q
 - /compliance/part-o
 - /compliance/ukca
 - /compliance/testing
 - /compliance/installer-competency
 - /compliance/documents

- /resources (23 pages)
 - /resources (**index**)

- /resources/articles/[slug] (20 articles)
 - /resources/faqs
 - /resources/glossary
- /pricing (4 pages)
 - /pricing
 - /pricing/request-quote
 - /pricing/trade-accounts
 - /pricing/finance
- /about (expand **to** 6 pages)
 - /about (company overview)
 - /about/heritage
 - /about/team
 - /about/accreditations
 - /about/health-safety
 - /about/sustainability
- /contact (expand **to** 5 pages)
 - /contact
 - /contact/book-survey
 - /contact/warranty-**returns**
 - /contact/spare-parts
- /blog (13 pages)
 - /blog (**index**)
 - /blog/[post-slug] (12 posts)
- /careers (4 pages)
 - /careers
 - /careers/openings
 - /careers/apprenticeships
 - /careers/installer-network
- /legal (8 pages)
 - /legal/privacy
 - /legal/terms
 - /legal/cookies
 - /legal/modern-slavery
 - /legal/anti-bribery
 - /legal/environmental
 - /legal/quality
 - /legal/health-safety
- /apps (16 pages)
 - /apps (**index**)
 - /apps/gate
 - /apps/verify
 - /apps/quote-copilot
 - /apps/spec-pack-pro
 - /apps/rams
 - /apps/o-**and**-m
 - /apps/scheduler
 - /apps/cad-sync
 - /apps/crm-bridge
 - /apps/cost-tracker
 - /apps/installer
 - /apps/site-photos
 - /apps/compliance-hub
 - /apps/analytics

Total Page Count: ~180 pages (100 minimum for initial launch)

IMPLEMENTATION DIRECTIVES

Universal Task Framework

Source: VERSION.md

Purpose: Ensure consistency and quality across all agent handovers

Process:

1. Read & Understand

- Review VERSION.md
- Check STATUS_REPORT.md
- Read DESIGN_BRIEF_ALIGNMENT.md
- Consult this COMPREHENSIVE_CHAT_EXTRACTION.md

1. Plan & Document

- Define scope clearly
- Break into sub-tasks
- Document approach in VERSION.md

2. Implement

- Follow Warren Executive Theme
- Maintain brand separation
- Write production-ready code
- No placeholders or TODOs

3. Test

- Run TypeScript checks (`tsc --noEmit`)
- Build project (`yarn build`)
- Test in dev mode (`yarn dev`)
- Verify all functionality

4. Document

- Update VERSION.md with version bump
- List all changes
- Document any new patterns
- Update STATUS_REPORT.md

5. Checkpoint

- Run `build_and_save_nextjs_project_checkpoint`
- Provide clear checkpoint description
- Verify successful build

Code Quality Standards

TypeScript:

- Strict mode enabled
- No `any` types without justification
- Proper interface definitions
- Type exports in lib/types.ts

React Components:

- Functional components only

- TypeScript interfaces for props
- Proper error handling
- Accessibility attributes
- Responsive design

Styling:

- Tailwind utility classes
- Consistent spacing scale
- Warren Executive Theme colors
- No inline styles (except dynamic)

Performance:

- Lazy loading where appropriate
- Image optimization (Next.js Image component)
- Code splitting for large components
- Minimal bundle size

Security:

- Input validation on all forms
- SQL injection prevention (Prisma)
- XSS prevention
- CSRF protection
- Secure authentication

Git Commit Message Convention (Internal Documentation)

v[X.X.X] - [Brief description]

Changes:

- [Change 1]
- [Change 2]

Files Modified:

- [File 1]
- [File 2]

Testing:

- [Test result]

CURRENT STATUS & NEXT STEPS

Current Version: v1.1.0

Status:  Checkpoint saved, build successful, all tests passing

Completed in v1.1.0:

- PPM services messaging update (removed 24/7 emergency language)
- Version tracking system implementation
- Version badge component in footer
- Authentication framework (signin, signup, session management)
- Advanced hero video design specification

- Unified Application Inventory documentation framework
- Comprehensive documentation (HANDOVER, VERSION, STATUS, ALIGNMENT)

Build Status:

- TypeScript: No errors
- Next.js Build: Successful
- Routes Generated: 18 routes
- Bundle Size: Optimized
- Deployment: Live at `sfg-website-2025.abacusai.app`

Immediate Next Steps (v1.2.0+)

Priority 1: Hero Video Implementation

1. Create/source hero video content (15-30 seconds)
2. Optimize for multiple device formats
3. Implement advanced-hero-video component
4. Test performance and accessibility
5. Add fallback poster image

Priority 2: Product Pages (60 pages)

1. Create product category dynamic routes
2. Implement 6 subpage templates per category
3. Populate with content from specification docs
4. Add compliance flags and badges
5. Implement gated downloads UI

Priority 3: /apps Foundation

1. Set up Module Federation config
2. Implement magic-link authentication
3. Create session management
4. Build gate and verify pages
5. Implement watermarking system

Priority 4: Content Population

1. Extract content from uploaded files
2. Write unique content for each page
3. Optimize for SEO
4. Add meta tags and schema markup
5. Implement search functionality

Priority 5: Compliance Section

1. Create compliance overview page
2. Build individual Part pages (A, B, F, K, L, M, Q, O)
3. Document UKCA requirements
4. Add testing & certification info
5. Implement document gating

Long-Term Roadmap

Q4 2025:

- Complete 100+ page implementation
- Launch /apps microfrontends
- Implement all 12 app slugs

- Full content population
- SEO optimization complete

Q1 2026:

- Expand to 180+ pages
- Add blog and news system
- Implement CMS for content management
- Advanced analytics integration
- Marketing automation

Q2 2026:

- Customer portal features
 - Project tracking for clients
 - Online payment integration
 - Mobile app consideration
-

APPENDIX: KEY FILE REFERENCES

Documentation Files

- `/home/ubuntu/sfg_aluminium_ltd/VERSION.md` - Version tracking log
- `/home/ubuntu/sfg_aluminium_ltd/STATUS_REPORT.md` - Current build status
- `/home/ubuntu/sfg_aluminium_ltd/DESIGN_BRIEF_ALIGNMENT.md` - Design compliance check
- `/home/ubuntu/sfg_aluminium_ltd/HANDOVER_TO_NEXT_AGENT.md` - Agent handover instructions
- `/home/ubuntu/sfg_aluminium_ltd/HERO_VIDEO_IMPLEMENTATION.md` - Hero video specs
- `/home/ubuntu/sfg_aluminium_ltd/SFG_UNIFIED_APPLICATION_INVENTORY.md` - Apps inventory

Uploaded Source Files (Content Ready for Extraction)

- `/home/ubuntu/Uploads/DeepAgent ChatLLM Core Directive.txt`
- `/home/ubuntu/Uploads/Design Prompt for SFG Aluminium Limited_ Hostinger.docx`
- `/home/ubuntu/Uploads/SFG Aluminium Logo Design.png`
- `/home/ubuntu/Uploads/SFG Website llm chat conversation.pdf` (176 pages of conversation history)
- `/home/ubuntu/Uploads/SFG_Aluminium_Website_Specification_Pack (1).pdf`
- `/home/ubuntu/Uploads/user_message_2025-08-11_20-18-06.txt` (180+ page spec)
- `/home/ubuntu/Uploads/user_message_2025-08-11_23-11-30.txt` (SFG Innovations override)

Generated Reports & Archives

- `/home/ubuntu/SFG_Aluminium_Forensic_Audit_Report.md/.pdf`
 - `/home/ubuntu/SFG_Aluminium_Page_Inventory.csv`
 - `/home/ubuntu/SFG_Aluminium_Project_Analysis_Report.md/.pdf`
 - `/home/ubuntu/SFG_Aluminium_Website_Specification_Pack.pdf`
 - `/home/ubuntu/Master_Project_Archive.tar.gz`
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DOCUMENT CHANGE LOG

Version 1.0.0 - October 31, 2025

- Initial comprehensive extraction
 - Consolidated all chat history sources
 - Documented project evolution from August 2024 to present
 - Captured all critical specifications and decisions
 - Established roadmap for next 180+ pages
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END OF COMPREHENSIVE CHAT EXTRACTION

This document serves as the authoritative reference for all project decisions, specifications, and context from conversation history. All future agents should consult this document alongside VERSION.md and HANOVER_TO_NEXT_AGENT.md for complete project understanding.