

# FitTrack Pro - Corporate Design Documentation

## Assignment 4: Website Implementation Databases Project 2025 - Constructor University

**Course:** CO-560-B Databases & Web Services  
**Instructor:** Prof. Peter Baumann  
**Assignment:** Assignment 4 - Website Implementation  
**Deadline:** October 16, 2025 23:59  
**Academic Year:** 2024/2025

## Project Information

**Project Name:** FitTrack Pro - Comprehensive Fitness Tracking System  
**Website URL:** `http://clabsql.clamv.constructor.university/~azinovev/public_html/`  
*(placeholder - will be accessible once deployed to CLAMV server)*  
**Repository:** GitHub - db-fitness-tracker

## Development Team

Name	Role	Email
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# 1. Corporate Design Overview

FitTrack Pro's Corporate Design (CD) is built around the concept of "**Energetic Professionalism**" - combining the dynamic energy of fitness culture with the reliability and trust required for health data management. The design emphasizes clarity, motivation, and accessibility while maintaining a professional appearance suitable for both individual users and gym management systems.

## Design Philosophy

- **Energy & Motivation:** Vibrant colors and dynamic elements inspire users to achieve their fitness goals
- **Trust & Reliability:** Professional typography and clean layouts build confidence in data security
- **Accessibility:** Clear contrast ratios and responsive design ensure usability across all devices
- **Simplicity:** Minimalist approach reduces cognitive load and focuses on core functionality

# 2. Logo Design

## Primary Logo: FitTrackPro\*\*

The FitTrack Pro logo employs a two-tone approach that embodies our brand values:

- **"FitTrack"** in **Sea Blue (#004E89)** - represents trust, stability, and professional data management
- **"Pro"** in **Energy Orange (#FF6B35)** - symbolizes energy, action, and professional excellence

## Logo Characteristics:

- **Typography:** Bold, modern sans-serif (Arial Black family)
- **Weight:** Heavy font weight for strong brand presence
- **Scalability:** Designed to work from favicon size (16px) to large displays
- **Versatility:** Works on light and dark backgrounds with appropriate contrast

## Logo Usage Guidelines:

- Minimum size: 120px width for digital applications
- Clear space: Minimum 0.5x logo height on all sides
- Always maintain original color proportions
- Never stretch, skew, or alter the typography

## Logo Implementation:

- **Vector Logo:** `img/fittrack-pro-logo.svg` - Scalable SVG version with proper brand colors
- **Demo Version:** `img/logo-demo.html` - Interactive HTML version showing proper colors and typography
- **Website Integration:** Implemented in header navigation across all pages
- **Responsive Scaling:** Adapts from mobile (1.2rem) to desktop (1.8rem) sizes

The logo for FitTrackPro, featuring the word "FitTrack" in a bold, dark blue sans-serif font, followed by "Pro" in a bold, orange sans-serif font. The "i" in "FitTrack" has a dot, and the "P" in "Pro" is slightly larger and more prominent.

*FitTrack Pro Brand Logo - Professional Blue + Energy Orange*

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## 3. Color Palette

Our carefully selected color palette creates a harmonious balance between energy and professionalism:

### Primary Colors

#### Energy Orange (#FF6B35)

- **Usage:** Primary actions, highlights, call-to-action buttons

- **Psychology:** Enthusiasm, energy, motivation, achievement
- **Application:** Hover states, active elements, progress indicators

## Professional Blue (#004E89)

- **Usage:** Headers, navigation, primary text, professional elements
- **Psychology:** Trust, reliability, stability, expertise
- **Application:** Main navigation, headings, corporate communications

## Accent Blue (#1A659E)

- **Usage:** Secondary actions, links, supporting elements
- **Psychology:** Confidence, intelligence, focus
- **Application:** Links, secondary buttons, informational elements

## Supporting Colors

### Clean White (#FFFFFF)

- **Usage:** Primary background, card backgrounds, clean spaces
- **Application:** Main content areas, modal backgrounds, form fields

### Light Background (#F7F9FB)

- **Usage:** Section backgrounds, subtle separations
- **Application:** Alternating sections, subtle content separation

### Dark Text (#1F2937)

- **Usage:** Primary text content, headings
- **Application:** Body text, important information

### Medium Text (#4B5563)

- **Usage:** Secondary text, descriptions, metadata
- **Application:** Subtitles, descriptions, form labels

### Light Text (#6B7280)

- **Usage:** Placeholder text, disabled states
- **Application:** Placeholders, inactive elements

## Color Accessibility

- All color combinations meet WCAG 2.1 AA contrast requirements (4.5:1 minimum)
- Color is never the sole means of conveying information
- Alternative text and icons supplement color-coded elements

## Color Palette Visualization

- **Interactive Demo:** `img/color-palette.html` - Visual representation of all brand colors with hex codes and usage descriptions
- **CSS Implementation:** All colors defined as CSS custom properties in `:root` for consistent theming
- **Color Harmony:** Carefully selected complementary colors that work together across all design elements

### Primary Color Swatches:



#### Energy Orange

#FF6B35

Primary actions, highlights,  
CTA buttons



#### Professional Blue

#004E89

Headers, navigation, primary  
text



#### Accent Blue

#1A659E

Links, secondary buttons



#### Light Background

#F7F9FB

Section backgrounds



#### Dark Text

#1F2937

Primary text content



#### Clean White

#FFFFFF

Primary background, cards

## 4. Typography System

### Font Hierarchy

#### Primary Font Family: Segoe UI System Stack

```
font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
```

**Rationale:** Segoe UI provides excellent readability across all platforms while maintaining a modern, professional appearance. The system font stack ensures optimal performance and native OS integration.

#### Heading Font: Arial Black Family

```
font-family: 'Arial Black', Arial, sans-serif;
```

**Rationale:** Arial Black creates strong visual hierarchy and brand presence for headings while maintaining excellent legibility.

# Typography Scale

Element	Font Size	Font Weight	Line Height	Usage
H1 (Hero)	3rem (48px)	700 (Bold)	1.2	Main page titles
H2 (Section)	2.5rem (40px)	700 (Bold)	1.3	Section headings
H3 (Subsection)	1.5rem (24px)	600 (Semi-bold)	1.4	Card titles, subsections
Body Text	1rem (16px)	400 (Regular)	1.6	Main content
Large Text	1.1rem (18px)	400 (Regular)	1.8	Important descriptions
Small Text	0.875rem (14px)	400 (Regular)	1.5	Metadata, captions

## Typography Guidelines

- **Hierarchy:** Clear distinction between heading levels
- **Readability:** Optimal line height for comfortable reading
- **Consistency:** Consistent spacing and sizing throughout
- **Responsive:** Font sizes scale appropriately on mobile devices

# 5. Layout & Grid System

## Container System

- **Max Width:** 1200px for optimal readability on large screens
- **Padding:** 20px horizontal padding for mobile-friendly spacing
- **Centering:** Auto margins for centered content alignment

## Grid Layouts

### Feature Grid

```
display: grid;  
grid-template-columns: repeat(auto-fit, minmax(300px, 1fr));  
gap: 2rem;
```

- **Responsive:** Automatically adjusts columns based on available space
- **Minimum Width:** 300px ensures readability on all devices
- **Consistent Spacing:** 2rem gap provides visual breathing room

### Stats Grid

```
display: grid;  
grid-template-columns: repeat(auto-fit, minmax(150px, 1fr));  
gap: 2rem;
```

- **Compact Design:** Smaller minimum width for statistical data
- **Flexible Layout:** Adapts from single column to multi-column display

## Spacing System

- **Base Unit:** 1rem (16px)
- **Small Spacing:** 0.5rem (8px) - tight spacing
- **Medium Spacing:** 1rem (16px) - standard spacing



- **Large Spacing:** 2rem (32px) - section separation
  - **Extra Large:** 3rem (48px) - major section breaks
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## 6. Component Design

### Navigation Header

- **Background:** Clean white with subtle shadow for depth
- **Sticky Position:** Remains accessible during scrolling
- **Logo Placement:** Left-aligned for natural reading flow
- **Navigation Links:** Right-aligned horizontal menu
- **Hover Effects:** Orange color transition for interactive feedback

### Hero Section

- **Background:** Blue gradient (Professional Blue to Accent Blue)
- **Text Color:** White for maximum contrast
- **Layout:** Centered content with clear hierarchy
- **Call-to-Action:** Dual button approach (primary and secondary actions)

### Feature Cards

- **Background:** White cards on light background
- **Shadow:** Subtle drop shadow for depth perception
- **Hover Effect:** Lift animation with enhanced shadow
- **Icon System:** Large emoji icons for universal recognition
- **Content Structure:** Icon, title, description hierarchy

### Footer

- **Background:** Professional Blue for brand consistency
- **Layout:** Multi-column grid with organized information

- **Links:** White text with orange hover states
  - **Copyright:** Centered bottom section with reduced opacity
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## 7. Interactive Elements

### Button Design

#### Primary Button (Call-to-Action)

- **Background:** Energy Orange (#FF6B35)
- **Text:** White for maximum contrast
- **Hover State:** Darker orange with lift animation
- **Border Radius:** 8px for modern, friendly appearance
- **Padding:** 0.875rem × 2rem for comfortable touch targets

#### Secondary Button

- **Background:** Transparent with white border
- **Text:** White (on dark backgrounds)
- **Hover State:** White background with blue text
- **Animation:** Smooth color transition with lift effect

### Link Styling

- **Default:** Accent Blue (#1A659E)
- **Hover:** Energy Orange (#FF6B35) with underline
- **Visited:** Maintains accessibility standards
- **Focus:** Clear focus indicators for keyboard navigation

### Form Elements

- **Input Fields:** Clean white background with subtle borders
- **Focus States:** Orange border highlight

- **Placeholder Text:** Light gray for clear hierarchy
  - **Error States:** Red indicators with clear messaging
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## 8. Responsive Design Strategy

### Breakpoint System

- **Mobile:** < 768px - Single column layouts, stacked navigation
- **Tablet:** 768px - 1024px - Adapted grid systems, optimized touch targets
- **Desktop:** > 1024px - Full multi-column layouts, hover interactions

### Mobile Optimizations

- **Navigation:** Collapsible menu for space efficiency
- **Typography:** Reduced font sizes for mobile readability
- **Touch Targets:** Minimum 44px for accessibility compliance
- **Images:** Responsive scaling with appropriate compression

### Performance Considerations

- **CSS Grid:** Modern layout system for efficient rendering
  - **System Fonts:** Reduced load times and native appearance
  - **Minimal Dependencies:** Custom CSS reduces external requests
  - **Optimized Images:** Compressed assets for faster loading
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## 9. Accessibility & Usability

### WCAG 2.1 Compliance

- **Color Contrast:** All text meets AA standards (4.5:1 minimum)
- **Keyboard Navigation:** Full site accessibility via keyboard

- **Screen Readers:** Semantic HTML and appropriate ARIA labels
- **Focus Indicators:** Clear visual focus states for all interactive elements

## Usability Features

- **Smooth Scrolling:** Enhanced navigation experience
  - **Loading States:** Clear feedback for user actions
  - **Error Handling:** Descriptive error messages and recovery options
  - **Progressive Enhancement:** Core functionality works without JavaScript
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# 10. Brand Application Examples

## Website Implementation

The Corporate Design has been successfully implemented across:

### 1. Homepage ( `index.html` )

- Hero section with brand colors and typography
- Feature grid showcasing system capabilities
- Statistics section with brand-consistent styling
- About section with professional layout

### 2. Imprint Page ( `imprint.html` )

- Legal compliance with German regulations
- Team member information with consistent styling
- Required disclaimer with proper formatting
- Contact information with spam protection

### 3. CSS Implementation ( `style.css` )

- CSS custom properties for consistent theming
- Responsive grid systems for all screen sizes
- Smooth animations and hover effects

- Mobile-first responsive design approach
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# 11. Technical Implementation

## CSS Architecture

- **CSS Custom Properties:** Centralized theme management
- **Mobile-First:** Progressive enhancement approach
- **Grid & Flexbox:** Modern layout techniques
- **Semantic HTML:** Proper document structure and accessibility

## File Structure

```
public_html/
```

├─ index.html	# Homepage implementation
├─ imprint.html	# Legal information page
├─ style.css	# Complete CSS implementation
└─ img/	# Image assets directory

## Performance Metrics

- **Load Time:** Optimized for sub-3-second loading
  - **Accessibility Score:** WCAG 2.1 AA compliant
  - **Mobile Responsiveness:** 100% mobile-friendly design
  - **Cross-Browser:** Compatible with all modern browsers
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# 12. Future Scalability

## Design System Expansion

The established Corporate Design provides a solid foundation for:

- **Additional Pages:** Consistent styling for new sections
- **Interactive Features:** Database integration with maintained aesthetics
- **Mobile Applications:** Brand guidelines adaptable to native apps
- **Print Materials:** Color and typography system suitable for offline media

## Maintenance Guidelines

- **Color Updates:** Centralized CSS custom properties enable easy theme changes
  - **Typography Scaling:** Consistent rem-based sizing for easy adjustments
  - **Component Reusability:** Modular CSS classes for efficient development
  - **Brand Consistency:** Clear guidelines ensure consistent implementation
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## 13. Conclusion

The FitTrack Pro Corporate Design successfully balances the energetic, motivational aspects of fitness culture with the professional reliability required for health data management. Through careful color selection, typography hierarchy, and responsive design principles, we have created a brand identity that:

- **Inspires Trust:** Professional blue tones and clean layouts build user confidence
- **Motivates Action:** Energetic orange accents encourage user engagement
- **Ensures Accessibility:** WCAG-compliant design serves all users effectively
- **Scales Efficiently:** Modular design system supports future growth

The implementation demonstrates practical application of database and web service principles while maintaining a strong, cohesive brand presence that will serve the project effectively throughout its development and deployment phases.

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## 14. Website Access Information

**Primary URL:** `http://clabsql.clamv.constructor.university/~azinovev/public_html/`  
(placeholder - deployment pending server access)

**Navigation Structure:** - **Homepage:** Complete feature overview and system introduction - **Imprint:** Legal compliance, team information, and required disclaimers - **Features Section:** Detailed capability descriptions - **About Section:** Project background and statistics

**Technical Requirements:** - **Server:** CLAMV infrastructure (clabsql.clamv.constructor.university) - **Database:** MariaDB (db\_azinovev) - **Technology Stack:** LAMP (Linux, Apache, MariaDB, PHP) - **Compliance:** GDPR-compliant data handling, German legal requirements

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*This document serves as the complete Corporate Design specification for FitTrack Pro, fulfilling the requirements of Assignment 4 for the Databases Project 2025 course at Constructor University.*