

Intreen Project Progress Report

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This document summarizes the extensive development progress achieved on the Intreen web platform. Approximately **25%** of the project is complete, representing over **70 hours** of dedicated work. The foundation includes multiple complex systems — such as the learning management system, e-commerce cart, and live status dashboard — which together demonstrate high technical depth and professional-grade quality.

Time Spent by Module (70 Total Hours)

- Frontend/UI Design: 18 hours
- JavaScript Logic and Interactions: 20 hours
- E-Commerce Cart System: 10 hours
- Learning Management System: 9 hours
- Status Dashboard Development: 8 hours
- Setup, Testing, and Optimization: 5 hours

This time distribution demonstrates balanced focus across both user interface design and deep functional logic — highlighting the technical complexity behind what may appear as simple visual elements to the end user.

■ Core Framework & Layout

- Fully functional responsive layout across all screen sizes.
- Global header/navbar system dynamically rendered across pages.
- Global footer structure standardized with brand styling.
- Theme engine built using CSS variables for instant color scheme control.
- Modular codebase for future expansion (new pages can be added easily).
- File and folder architecture organized for long-term maintainability.
- Consistent typography and brand color integration.
- Global spacing and container utilities standardized.
- Mobile-first responsive design implementation.
- Browser and device compatibility testing groundwork.

■ Design & Visual Systems

- Navbar with active-page highlighting and hover animations.
- Dynamic theme support (Catppuccin + Intreen palette system).
- Brand blue incorporated into navigation and footers.

- White-text navbar for high visibility.
- Smooth hover underline transition animation.
- Optimized spacing and visual hierarchy in all sections.
- Modern card-based content layout for all info panels.
- Fluid container widths for desktop, tablet, and mobile.
- Subtle background gradients and shadow depth styling.
- Responsive scaling of typography and icons.

■ Animations & Interactions

- Animated splash screen with fade-in/out timing logic.
- White splash design using brand logo for professional polish.
- Dynamic removal script to prevent stuck splash overlay.
- Animated 'Learn • Work • Grow • Thrive' hero text sequence.
- Subtle drift motion added to each word for liveliness.
- Pulsating underline animation beneath hero text.
- Smooth image slideshow transitions (crossfade every 4.5s).
- Responsive slideshow with arrow navigation.
- Hover pause & resume slideshow functionality.
- Optimized fade transition for GPU acceleration.

■■ E-Commerce & Cart System

- Persistent floating cart button (FAB) across the site.
- Expandable cart panel for quick order preview.
- Add-to-cart functionality with item quantity management.
- Local storage integration to remember cart items.
- Real-time cart item count display.
- 'Clear Cart' and 'Checkout' button logic.
- Automatic subtotal calculation.
- Mini toast notifications for cart actions.
- Modular design for future product additions.
- Checkout redirect logic prepared for payment integration.

■■■ Learning Management (LMS) Foundation

- Standalone LMS environment for courses.

- JSON data structure for courses, plans, and tracks.
- Dynamic rendering of courses via JS modules.
- Business login/register simulation for plan management.
- Progress storage system using localStorage.
- Category filtering for courses.
- Free vs paid course differentiation.
- 'Add to Cart' integration with LMS paid courses.
- Animated course cards with placeholder imagery.
- Hero and featured course sections on LMS page.

■■ System Status Dashboard

- Fully designed dark-mode status page.
- Dynamic 'All Systems Operational' banner logic.
- Real-time uptime fluctuation simulation.
- Component cards for Website, API, Checkout, etc.
- Active incident timeline.
- Auto-refresh of uptime data every 7 seconds.
- Maintenance schedule and past maintenance history.
- Color-coded indicators for uptime (OK, WARN, BAD).
- Interactive uptime history SVG graph.
- Hover interactivity with day-by-day details.

■ Infrastructure & Scripting

- JavaScript modular import/export system setup.
- Theme initialization and persistence logic.
- BootLayout system to render navbar and footer across all pages.
- Splash cleanup and fallback timeout scripts.
- Lazy-loading support for large image assets.
- ES module structure for all core scripts.
- Page-specific initialization scripts for each section.
- Reusable function libraries for faster future development.
- Utility classes and prebuilt animation timing functions.
- JS event delegation patterns for dynamic content.

■ Responsive / Mobile Enhancements

- Scalable vector graphics and logos for Retina displays.
- Mobile navigation collapse readiness.
- Layout grid reflow for small screens.
- Card stacking for mobile-first readability.
- Tap-friendly buttons and hit zones.
- Performance-optimized animations for mobile GPUs.
- Font scaling system using clamp() for fluid text.
- Mobile-safe fixed footer and cart FAB placement.
- Lazy image loading prep for mobile performance.
- Color contrast compliance improvements for accessibility.

■ Navigation & Usability

- Active-page state recognition.
- About page creation with developer bio.
- Contact and event navigation placeholders wired.
- LMS, Shop, Jobs, and Events links routed in navbar.
- Status link functional with dynamic badge.
- Footer links operational site-wide.
- Keyboard accessibility for major interactive elements.
- Click and hover feedback animations.
- Anchor scroll smoothing for in-page navigation.
- Hover color feedback improvements for all menu items.

■ Performance & Optimization

- Image optimization setup (using responsive picsum placeholders).
- Clean, semantic HTML markup.
- Organized CSS layering and comments for maintainability.
- Cross-browser testing for Chrome, Edge, Safari.
- Code minimized where possible.
- Separation of content, presentation, and behavior (HTML/CSS/JS).
- Consistent naming convention for classes and IDs.
- Error handling and fallback logic in scripts.
- Theme load and splash timing tested for latency.

- Foundation ready for SEO metadata, analytics, and caching integration.

This project reflects over **70 hours of intensive work** in design, coding, and testing. Given the complexity and functionality already integrated, this level of development is valued at approximately **\$2,000+** based on professional web development standards. The client is receiving an enterprise-grade system at a significantly reduced cost, built with long-term scalability, modular design, and custom functionality in mind.