newman-reporter-htmlextra **Modernization Memory Bank (2025)** UI/UX Revamp Modern Design **Report Enhancement** A comprehensive resource for planning and tracking the modernization of the newmanreporter-htmlextra project, focusing on 2025 UI/UX standards while preserving core functionality. **Project Overview newman-reporter-htmlextra** is a popular HTML reporter for Newman (Postman's command-line tool) that provides detailed information about API test collection runs, separating iteration runs and offering enhanced visualization capabilities. **Current Status Revamp Goals**  Active open-source project Modernize UI/UX to 2025 standards Well-maintained with regular updates Enhance request/response visualization Capture and display all execution details Widely used in API testing workflows Dashboard-style report visualization • Maintain core reporting structure HTML-based with templating engine (Handlebars) • Improve visual analytics and data presentation **Project Requirements** 1. Update to 2025 modern UI/UX standards 2. Display all requests and responses from any execution (including prerequest and postrequest scripts) 3. Preserve the report structure (successful, failed, skipped, total iterations) 4. Implement modern UI assets while maintaining report functionality 5. Ensure backward compatibility with existing Newman workflows **Current UI/UX Analysis Report Structure** The current report follows a tabbed interface with multiple views: Dashboard summary landing page Total requests tab (organized by iterations) Failed tests tab Skipped tests tab • Console logs section (optional) Limitations Strengths • Dated visual design (pre-2025 standards) • Comprehensive data presentation • Non-aggregated iteration runs • Limited data visualization capabilities Customizable reporting options • Basic request/response formatting • Clear test pass/fail visualization • No modern interactive elements • Light/dark theme support • Limited mobile responsiveness **UI Components Analysis Modernization Need** Component **Current State** High - Needs interactive charts and modern metrics Dashboard Basic statistics with simple visuals display Medium - Improve with smooth transitions and better Simple tab-based navigation Navigation visual hierarchy Expandable accordions with basic High - Enhanced with syntax highlighting and better **Request Details** formatting organization Response High - Modern code viewers with search and filtering Plain text with basic formatting **Bodies** capabilities Simple pass/fail indicators Medium - More detailed visualization with context Test Results Low - Expand with customizable themes and system Theme Support Basic light/dark toggle preference detection **Feature Inventory** Comprehensive inventory of current features and capabilities that need to be preserved and enhanced in the modern UI/UX implementation. **Summary Dashboard Iteration Separation** Non-aggregated view of iteration runs. Provides overview of collection run with key metrics. Collection details Individual iteration details • Iteration-specific stats Environment information • Data-driven testing support • Statistics (total, pass, fail, skip) Execution time metrics Core **Response Visualization Request Details** Complete request information and execution details. Display of response data with formatting. • HTTP method, URL, status Response body formatting Response headers Headers and query params Request body • Status code information • Response time metrics • Size and timing details **Test Results** Theme Support Core Display of test assertions and outcomes. Light and dark theme capabilities. Test pass/fail status • Theme toggle controls Assertion details Persistent theme selection Error messages • System theme detection Test script source **Customizable Templates** Extended **Console Logging** Display of console log statements. Support for custom report templates. • Handlebars template engine Console.log capture • Custom template support Log level filtering Template variables Log formatting **Environment Data** Extended Data Filtering Display of environment variables used in tests. Enhanced filtering of report data. Variable values Request filtering

Environment name

**Interactive Visualizations** 

Modern data visualization components.

**Modern UI/UX Principles (2025)** 

• Neomorphic Elements: Subtle shadows and

• Glassmorphism: Frosted glass effects for layered

• Micro-interactions: Subtle animations for user

• Variable Typography: Fluid type scaling for better

**Interface Design Principles** 

highlights for depth

interfaces

feedback

Variable filtering

Interactive charts

• Data-driven graphics

• Timeline visualizations

Core

Core

Enhancement

Extended

New

New

Response filtering

Test result filtering

• Script source display

• Script-generated requests

**User Experience Enhancements** 

• Contextual Interfaces: Adapting to user behavior

**Real-time Feedback:** Immediate system responses

• **Gesture-based Controls:** Intuitive interaction

**Data Visualization:** Interactive and insightful

• Accessibility-first: Universal design principles

Execution results

patterns

graphics

**Pre/Post Request Scripts** 

Display of pre/post request script execution.

New

Key design principles and trends to incorporate in the modernization effort, aligned with 2025 UI/UX standards.

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Project Overview

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Q Current UI/UX Analysis

Modern UI/UX Principles

readability • **Spatial Navigation:** 3D-inspired navigation patterns 2025 UI/UX Trends to Incorporate **AI-Enhanced Interfaces 3D Data Visualization Dynamic Color Systems** Layered, interactive visualizations that Contextual color schemes that adapt to Smart suggestions and interface content type and user preferences, with adaptations based on usage patterns, provide deeper insights into test results support for high contrast and color highlighting relevant information for and performance metrics with blindness modes. specific test results. dimensional context. **Spatial Interface Elements** Voice & Natural Language **Seamless Responsiveness** Fluid adaptation across all device sizes, Depth and dimension in UI Support for voice-activated commands and natural language search components, creating a more intuitive with optimized layouts for mobile, mental model of the data hierarchy and tablet, desktop, and large displays capabilities to quickly locate specific relationships. test results or patterns. without feature loss. **Accessibility Considerations** Modern UI/UX must prioritize accessibility to ensure the report is usable by all team members: **Vision Accessibility Interaction Accessibility** • Keyboard navigation support High contrast mode support Screen reader compatibility Reduced motion options • Configurable font sizes Voice control capabilities • Color blind friendly palettes Touch-friendly interfaces **Design System** Comprehensive design system for the modernized UI/UX implementation, ensuring consistency and cohesion. **Color Palette** Success Green Primary Blue Secondary Indigo **Error Red** #EF4444 #3B82F6 #6366F1 #10B981 Warning Amber Text Dark **Background Light Background Dark** #F3F4F6 #F59E0B #374151 #111827 **Typography Heading 1** Inter, 2.5rem, 800 weight Heading 2 Inter, 1.875rem, 600 weight Heading 3 Inter, 1.5rem, 600 weight Heading 4 Inter, 1.25rem, 500 weight **Body Text** Inter, 1rem, 400 weight **Small Text** Inter, 0.875rem, 400 weight Code Text Mono, 0.875rem, 400 weight **Core Components** Cards Navigation Dashboard Requests Tests Logs Card Title Card content with relevant information Modern tab navigation with active states Content containers with subtle elevation **Expandable Panels** Data Display Success Rate Requests **Request Details** 248 96.8% Content area with request information Metrics display with visual hierarchy Collapsible sections for nested content **Specialized Components Code Viewer Status Indicators** PassedFailedSkipped Clear visual status with accessibility support https://api.example.com/users Authorization: Bearer token123 Syntax highlighted code with copy functionality **Timeline Visualization Data Charts** Request execution timeline with key events Data visualization components with interactivity **Implementation Plan** Structured approach to implementing the modernized UI/UX design, breaking down the work into manageable phases. Phase 1: Architecture & Foundation **Update Core Dependencies** Modernize underlying libraries and frameworks to 2025 standards **Refactor Template Structure** Improve Handlebars template architecture for better modularity

**Implement Design System** 

**Enhance Data Processing** 

**Phase 2: Core UI Components** 

**Redesign Dashboard Summary** 

**Implement Navigation System** 

**Develop Request Visualization** 

Redesign Test Results View

**Phase 3: Advanced Features** 

Build core design components and style framework

Create modern, interactive dashboard with key metrics

Create enhanced request cards with modern formatting

Add modern chart components for performance metrics

Add robust filtering capabilities across all report data

Improve rendering performance for large reports

Ensure full compliance with accessibility standards

Update documentation and sample templates

Implement subtle animations and feedback mechanisms

Status

Planning

Planning

Planning

Planning

Planning

Planning

Current Dashboard Screenshot

• GitHub Issues for feature requests and bug reports

• User surveys for specific UI components

Prototype testing sessions with core users

Analytics tracking of component usage

1. Collect feedback from multiple channels

3. Identify common patterns and pain points

5. Validate changes with follow-up testing

2. Categorize by component and priority

4. Incorporate into design iterations

3. Check navigation between iterations

Verify WCAG 2.2 AA compliance for all components

Test across major browsers (Chrome, Firefox, Safari, Edge)

Verify proper display on various screen sizes and devices

☐ Browser Compatibility

☐ Mobile Responsiveness

☐ User Experience Testing

**Design Inspiration** 

Datadog Grafana

New Relic

**Modern Dashboard UIs** 

• Tippy.js for tooltips and popovers

Conduct usability testing with real users

4. Validate per-iteration statistics

Track visual changes with comparison documentation for each major component:

Process for collecting and incorporating user feedback during the modernization:

System for tracking and documenting UI/UX changes throughout the modernization process.

**Progress** 

Notes

Initial designs created, awaiting feedback

Evaluating modern navigation patterns

Evaluating modern code formatting libraries

Initial designs for improved test visualization

Theme foundation defined with color system

After (Modern UI)

Interactive data visualizations

Clear information hierarchy Modern card-based layout

Research on best practices for API request visualization

Proposed Dashboard Design

Implement advanced theming with system preference detection

Implement visualization for prerequest and postrequest script execution

Improve test result visualization with better context

Add Pre/Post Request Visualization

**Create Interactive Data Charts** 

Implement Advanced Filtering

**Phase 4: Refinement & Optimization** 

**Enhance Theme System** 

**Optimize Performance** 

**Enhance Accessibility** 

**Add Micro-interactions** 

**Change Tracking** 

Component

**Dashboard Summary** 

**Navigation System** 

Request Details View

Response Formatting

Test Results Display

**Before/After Documentation** 

Before (Current UI)

Basic tabular data display

Minimal interactive elements

Limited visual hierarchy

**User Feedback System** 

**Feedback Collection Methods** 

**Feedback Processing Workflow** 

Theme System

**Component Tracking Matrix** 

**Documentation & Templates** 

Build modern navigation with smooth transitions

Improve how request/response data is processed and prepared for display

**Testing & Validation** Comprehensive testing strategy to ensure the modernized UI/UX meets requirements and provides an optimal user experience. **Testing Matrix** Description **Test Category** Methods **Functional Testing** Verify all core functions work as expected Automated tests, manual testing Visual regression testing, component **UI** Component Test individual UI components for proper testing Testing rendering Ensure compatibility across browsers and Cross-browser testing, responsive **Compatibility Testing** devices testing Evaluate performance with large reports Performance Testing Load testing, benchmark testing A11y checks, screen reader testing Verify compliance with accessibility standards Accessibility Testing **User Experience** Gather feedback on UX improvements User interviews, usability testing Testing **Test Scenarios** Scenario 1: Basic Report Rendering Test the rendering of a simple collection run with a few requests 1. Run a collection with 5 successful requests 2. Verify dashboard displays correct statistics 3. Check request details are properly formatted 4. Validate response data is correctly displayed Scenario 2: Complex Report with Failures Test the reporting of mixed results with failures and skipped tests 1. Run a collection with success, failure, and skipped tests 2. Verify failed tests are properly highlighted 3. Check navigation between test result categories 4. Validate error messages are clearly displayed Scenario 3: Multiple Iterations Test handling of collections with multiple iterations 1. Run a collection with data-driven tests (multiple iterations) 2. Verify iteration separation is maintained

Scenario 4: Pre/Post Request Scripts Test visualization of prerequest and postrequest scripts 1. Run a collection with complex pre/post request scripts 2. Verify script execution details are displayed 3. Check console logs from scripts are captured 4. Validate script-generated requests are properly shown **Validation Checklist** ☐ Core Functionality Preservation Verify all existing features continue to work with the modernized UI Performance Benchmarks Ensure the modernized UI performs at least as well as the current version ☐ Accessibility Compliance

Resources Key resources and references for the modernization project. **Project References**  newman-reporter-htmlextra GitHub Repository Current Dashboard Template Newman CLI Tool Handlebars Documentation • Example Report (Current Version)

GitHub Actions Postman Collections CodePen/CodeSandbox **Technical Libraries UI Libraries Utilities**  Tailwind CSS for styling • Day.js for date formatting • Alpine.js for reactive components • Lodash for data manipulation • Chart.js for data visualization • JSZip for compression/extraction • Prism.js for code highlighting • highlight.js for syntax highlighting

**API** Documentation

Stripe API Docs

Swagger UI

GitHub API Explorer

**Code Visualization** 

VS Code Interface

Chrome DevTools

Marked for markdown rendering

GitHub Code Viewer