**Thematic Engine**

**1. Unused Code:**

* **frontend/src/components/thematic\_engine/ThemeProvider.tsx** (lines 1-247)
* The ThemeProvider component is defined but not used anywhere in the codebase
* The component exports a useTheme hook (lines 12-20) that is never imported or called in any other component
* Despite implementing a complete context-based theme system, there are no wrapper components that implement this provider
* **backend/app/routers/thematic\_engine/api.py** (lines 62-82)
* The get\_menu\_styles endpoint queries a Menu model with a styles column that doesn't exist in either models.Menu definition found in the codebase
* The related model in app/schemas/thematic\_engine/models.py only has style\_config column, not styles
* This endpoint would throw an attribute error when called due to the incorrect column name
* **backend/app/routers/thematic\_engine/api.py** (lines 13-16)
* The get\_thematic\_engine endpoint is a placeholder that simply returns a "Hello, World!" message
* There are no calls to this endpoint from the frontend, suggesting it's unused
* **backend/app/schemas/thematic\_engine/schemas.py** (lines 28-34)
* The Form class has an incorrect configuration attribute from\_attributes instead of the proper orm\_mode = True
* This inconsistency suggests this is older code that hasn't been updated to use newer Pydantic configurations

**2. Unwanted Pages:**

* **frontend/src/app/admin\_engine/create\_admin/page.tsx** (lines 159-198)
* Uses a MUI ThemeProvider that is distinct from the application's custom thematic engine
* This page has its own hardcoded theme definition that doesn't integrate with the application's theme system
* This suggests the page is not participating in the application's unified design system

**3. Deprecated & Unused Features:**

* **frontend/src/components/thematic\_engine/ThemeProvider.tsx** (lines 45-92)
* The default CSS variables reset code includes unused variables that are defined but never utilized:

javascript

Apply to paymentTempl...

  const defaultVars = [

    '--theme-background', '--theme-primary', '--theme-secondary',

    '--theme-accent', '--theme-heading', '--theme-body',

    '--theme-muted', '--theme-border', '--theme-error',

    '--theme-success', '--theme-warning', '--theme-info',

    '--theme-btn-txt'

  ];

* These variables suggest a theming system that isn't fully implemented across the application
* **frontend/src/components/thematic\_engine/ThemeProvider.tsx** (lines 157-177)
* Contains broken CSS generation code at lines 163 and 207:

javascript

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  .btn-secondary, .button-secondary {

    background-color:

    color: ${theme.colors.btn\_txt} !important;

    border-color: transparent !important;

  }

and

javascript

Apply to paymentTempl...

  .btn-outline-error, .button-outline-error, .btn-outline-danger, .button-outline-danger {

    background-color: transparent !important;

    color:

    border-color: ${theme.colors.error} !important;

    border-width: 1px !important;

    border-style: solid !important;

  }

* These incomplete CSS rules indicate abandoned or incomplete theming functionality
* **backend/app/schemas/thematic\_engine/models.py** and **backend/app/schemas/thematic\_engine/schemas.py** (entire files)
* These files duplicate models that already exist in more active parts of the codebase
* The active model for Menu is in app/models/creation\_engine/menu.py, suggesting that the thematic\_engine models are deprecated versions

**4.** **Summary and Recommendations:**

The Thematic Engine module appears to be a partially implemented or abandoned feature that was intended to provide theme management functionality across the application but is not currently in use. The key issues include:

1. **Delete:**

* The unused API endpoint get\_thematic\_engine in backend/app/routers/thematic\_engine/api.py
* The broken endpoint get\_menu\_styles that references non-existent model attributes

1. **Refactor:**

* The ThemeProvider component should either be properly integrated into the application's layout or removed entirely
* The Pydantic model configurations in schemas.py should be updated to use the current configuration pattern
* Fix the CSS generation code in ThemeProvider.tsx to complete the missing CSS properties

1. **Consolidate:**

* The duplicate model definitions between schemas/thematic\_engine and other parts of the codebase should be consolidated
* The theme management functionality should be properly integrated across the application or removed