readme.md for @design.estate/dees-catalog

A comprehensive web components library built with TypeScript and LitElement, providing **90+ production-ready UI components** for building modern web applications with consistent design and behavior. □□

TypeScript LitElement

Issue Reporting and Security

For reporting bugs, issues, or security vulnerabilities, please visit community.foss.global/. This is the central community hub for all issue reporting. Developers who sign and comply with our contribution agreement and go through identification can also get a code.foss.global/ account to submit Pull Requests directly.

□ Features

- □□ **Consistent Design System** — Beautiful, cohesive components following modern UI/UX principles
- □□ **Dark/Light Theme Support** — All components automatically adapt to your theme
- ⌨ **Keyboard Accessible** — Full keyboard navigation and ARIA support
- □□ **Responsive** — Mobile-first design that works across all screen sizes
- □□ **TypeScript-First** — Fully typed APIs with excellent IDE support
- □□ **Modular** — Use only what you need, tree-shakeable architecture
- □□ **Full App Shell** — `dees-appui` provides a complete application framework with menus, routing, activity log, and bottom bar
- □□ **Media Components** — Rich tile-based previews for PDFs, images, audio, video, notes, and folders
- □□ **IDE Workspace** — Full workspace component with Monaco editor, file tree, terminal, and diff viewer

Installation

```
npm install @design.estate/dees-catalog
# or
pnpm add @design.estate/dees-catalog
```

Quick Start

```
import { html, DeesElement, customElement } from '@design.estate/dees-element';
import '@design.estate/dees-catalog';

@customElement('my-app')
class MyApp extends DeesElement {
  render() {
    return html`
      <dees-button type="highlighted" @click=${() => alert('Hello!')}>
        Click me!
      </dees-button>
    `;
  }
}
```

Development Guide

For developers working on this library, please refer to the UI Components Playbook for comprehensive patterns, best practices, and architectural guidelines.

Components Overview

Category	Components
Core UI	`DeesButton`, `DeesButtonExit`, `DeesButtonGroup`, `DeesBadge`, `DeesChips`, `DeesHeading`, `DeesHint`, `DeesIcon`, `DeesLabel`, `DeesPanel`, `DeesSearchbar`, `DeesSpinner`, `DeesToast`, `DeesWindowcontrols`, `DeesActionbar`

Category	Components
Forms	`DeesForm`, `DeesInputText`, `DeesInputCheckbox`, `DeesInputDropdown`, `DeesInputRadiogroup`, `DeesInputFileupload`, `DeesInputIban`, `DeesInputPhone`, `DeesInputQuantitySelector`, `DeesInputMultitoggle`, `DeesInputToggle`, `DeesInputTags`, `DeesInputTypelist`, `DeesInputList`, `DeesInputProfilepicture`, `DeesInputRichtext`, `DeesInputWysiwyg`, `DeesInputDatepicker`, `DeesInputSearchselect`, `DeesInputCode`, `DeesFormSubmit`
App Shell (Layout)	`DeesAppui`, `DeesAppuiMainmenu`, `DeesAppuiSecondarymenu`, `DeesAppuiMaincontent`, `DeesAppuiAppbar`, `DeesAppuiActivitylog`, `DeesAppuiBottombar`, `DeesAppuiProfiledropdown`, `DeesAppuiTabs`, `DeesMobileNavigation`, `DeesDashboardGrid`
Data Display	`DeesTable`, `DeesDataviewCodebox`, `DeesDataviewStatusobject`, `DeesPdf`, `DeesStatsGrid`, `DeesPagination`
Media & Tiles	`DeesTilePdf`, `DeesTileImage`, `DeesTileAudio`, `DeesTileVideo`, `DeesTileNote`, `DeesTileFolder`, `DeesPreview`, `DeesPdfViewer`, `DeesPdfPreview`, `DeesImageViewer`, `DeesAudioViewer`, `DeesVideoViewer`
Visualization	`DeesChartArea`, `DeesChartLog`
Dialogs & Overlays	`DeesModal`, `DeesContextmenu`, `DeesSpeechbubble`, `DeesWindowlayer`
Navigation	`DeesStepper`, `DeesProgressbar`
Workspace / IDE	`DeesWorkspace`, `DeesWorkspaceMonaco`, `DeesWorkspaceDiffEditor`, `DeesWorkspaceFiletree`, `DeesWorkspaceTerminal`, `DeesWorkspaceTerminalPreview`, `DeesWorkspaceMarkdown`, `DeesWorkspaceMarkdownoutlet`, `DeesWorkspaceBottombar`
Theming	`DeesTheme`
Pre-built Templates	`DeesSimpleAppdash`, `DeesSimpleLogin`
Shopping	`DeesShoppingProductcard`

□□ Detailed Component Documentation

Core UI Components

`DeesButton`

A versatile button component supporting multiple styles and states.

```
// Basic usage
const button = document.createElement('dees-button');
button.text = 'Click me';

// With options
<dees-button
  type="highlighted"  // Options: normal, highlighted, discreet
  status="pending"    // Options: normal, pending, success, error
  disabled={false}    // Optional: disables the button
  @click=${handleClick}
>Click me</dees-button>
```

DeesBadge

Display status indicators or counts with customizable styles.

```
<dees-badge
  type="success"  // Options: default, primary, success, warning, error
  text="New"      // Text to display
  rounded        // Optional: applies rounded corners
></dees-badge>
```

DeesChips

Interactive chips/tags with selection capabilities.

```
<dees-chips
  selectionMode="multiple"  // Options: none, single, multiple
  chipsAreRemovable        // Optional: allows removing chips
  .selectableChips=${[
    { key: 'tag1', value: 'Important' },
    { key: 'tag2', value: 'Urgent' }
  ]}
  @selection-change=${handleSelection}
></dees-chips>
```

DeesIcon

Display icons from FontAwesome and Lucide icon libraries with library prefixes.

```
// FontAwesome icons — use 'fa:' prefix
<dees-icon
  icon="fa:check"       // FontAwesome icon with fa: prefix
  iconSize="24"         // Size in pixels
  color="#22c55e"       // Optional: custom color
></dees-icon>

// Lucide icons — use 'lucide:' prefix
<dees-icon
  icon="lucide:menu"    // Lucide icon with lucide: prefix
  iconSize="24"         // Size in pixels
  color="#007bff"       // Optional: custom color
  strokeWidth="2"       // Optional: stroke width for Lucide icons
></dees-icon>

// Legacy API (deprecated but still supported)
<dees-icon
  iconFA="check"        // Without prefix — assumes FontAwesome
></dees-icon>
```

`DeesLabel`

Text label component with optional icon and status indicators.

```
<dees-label
  text="Status"         // Label text
  icon="info-circle"    // Optional: icon name
  type="info"           // Options: default, info, success, warning, error
  size="medium"         // Options: small, medium, large
></dees-label>
```

`DeesSpinner`

Loading indicator with customizable appearance.

```
<dees-spinner
  size="medium"         // Options: small, medium, large
  type="primary"        // Options: primary, secondary, light, dark
  overlay              // Optional: adds a full-screen overlay
></dees-spinner>
```

DeesToast

Notification toast messages with various styles, positions, and auto-dismiss functionality.

```
// Programmatic usage
DeesToast.show({
  message: 'Operation successful',
  type: 'success',      // Options: info, success, warning, error
  duration: 3000,       // Time in milliseconds before auto-dismiss
  position: 'top-right' // Options: top-right, top-left, bottom-right, bottom-left, top-center, bottom-center
});

// Convenience methods
DeesToast.info('Information message');
DeesToast.success('Success message');
DeesToast.warning('Warning message');
DeesToast.error('Error message');

// Advanced control
const toast = await DeesToast.show({
  message: 'Processing...',
  type: 'info',
  duration: 0  // No auto-dismiss
});

// Later dismiss programmatically
toast.dismiss();
```

Key Features:

- Multiple toast types with distinct icons and colors
- 6 position options for flexible placement
- Auto-dismiss with visual progress indicator
- Manual dismiss by clicking
- Smooth animations and transitions
- Automatic stacking of multiple toasts
- Theme-aware styling
- Programmatic control

DeesButtonExit

Exit/close button component with consistent styling.

```
<dees-button-exit
  @click=${handleClose}
></dees-button-exit>
```

DeesButtonGroup

Container for grouping related buttons together.

```
<dees-button-group
  .buttons=${[
    { text: 'Save', type: 'highlighted', action: handleSave },
    { text: 'Cancel', type: 'normal', action: handleCancel }
  ]}
  spacing="medium"    // Options: small, medium, large
></dees-button-group>
```

DeesHeading

Consistent heading component with level and styling options.

```
<dees-heading
  level={1}           // 1-6 for H1-H6
  text="Page Title"
  .subheading=${'Optional subtitle'}
  centered           // Optional: center alignment
></dees-heading>
```

DeesHint

Hint/tooltip component for providing contextual help.

```
<dees-hint
  text="This field is required"
  type="info"        // Options: info, warning, error, success
  position="top"     // Options: top, bottom, left, right
></dees-hint>
```

DeesPanel

Container component for grouping related content with optional title and actions.

```
<dees-panel
  .title=${'Panel Title'}
  .subtitle=${'Optional subtitle'}
  collapsible        // Optional: allow collapse/expand
  collapsed={false}  // Initial collapsed state
  .actions=${[
    { icon: 'settings', action: handleSettings }
  ]}
>
  <!-- Panel content -->
</dees-panel>
```

DeesSearchbar

Search input component with suggestions and search handling.

```
<dees-searchbar
  placeholder="Search..."
  .suggestions=${['item1', 'item2', 'item3']}
  showClearButton    // Show clear button when has value
  @search=${handleSearch}
  @suggestion-select=${handleSuggestionSelect}
></dees-searchbar>
```

DeesWindowcontrols

Window control buttons (minimize, maximize, close) for desktop-like applications.

```
<dees-windowcontrols
  .controls=${['minimize', 'maximize', 'close']}
  @minimize=${handleMinimize}
  @maximize=${handleMaximize}
  @close=${handleClose}
></dees-windowcontrols>
```

DeesActionbar

Floating action bar for contextual actions.

```
<dees-actionbar
  .actions=${[
```

```
    { icon: 'lucide:save', label: 'Save', action: () => handleSave() },
    { icon: 'lucide:trash', label: 'Delete', action: () => handleDelete() }
  ]}
></dees-actionbar>
```

Form Components

`DeesForm`

Container component for form elements with built-in validation and data handling.

```
<dees-form
  @formData=${(e) => handleFormData(e.detail)}  // Emitted when form is submitted
  @formValidation=${(e) => handleValidation(e.detail)}  // Emitted during validation
>
  <dees-input-text required></dees-input-text>
  <dees-form-submit>Submit</dees-form-submit>
</dees-form>
```

`DeesInputText`

Text input field with validation and formatting options.

```
<dees-input-text
  key="email"           // Unique identifier for form data
  label="Email"         // Input label
  value="initial@value.com"  // Initial value
  required             // Makes the field required
  disabled            // Disables the input
  placeholder="Enter your email"
></dees-input-text>
```

`DeesInputCheckbox`

Checkbox input component for boolean values.

```
<dees-input-checkbox
  key="terms"
  label="Accept Terms"
  checked             // Initial checked state
```

```
  required
  @change=${handleChange}
></dees-input-checkbox>
```

DeesInputToggle

Toggle switch component for boolean on/off states.

```
<dees-input-toggle
  key="darkMode"
  label="Enable Dark Mode"
  .value=${true}
  @change=${handleToggle}
></dees-input-toggle>
```

DeesInputDropdown

Dropdown selection component with search and filtering capabilities.

```
<dees-input-dropdown
  key="country"
  label="Select Country"
  .options=${[
    { key: 'us', option: 'United States' },
    { key: 'uk', option: 'United Kingdom' }
  ]}
  searchable          // Enables search functionality
  multiple           // Allows multiple selections
></dees-input-dropdown>
```

DeesInputFileupload

File upload component with drag-and-drop support.

```
<dees-input-fileupload
  key="documents"
  label="Upload Files"
  multiple            // Allow multiple file selection
  accept=".pdf,.doc"  // Accepted file types
  maxSize="5MB"      // Maximum file size
  @upload=${handleUpload}
```

```
></dees-input-fileupload>
```

DeesInputIban

Specialized input for IBAN (International Bank Account Number) with validation.

```
<dees-input-iban
  key="bankAccount"
  label="IBAN"
  country="DE"        // Default country format
  required
  @validate=${handleIbanValidation}
></dees-input-iban>
```

DeesInputPhone

Phone number input with country code selection and formatting.

```
<dees-input-phone
  key="phone"
  label="Phone Number"
  defaultCountry="US"  // Default country code
  required
  @validate=${handlePhoneValidation}
></dees-input-phone>
```

DeesInputQuantitySelector

Numeric input with increment/decrement controls.

```
<dees-input-quantity-selector
  key="quantity"
  label="Quantity"
  min="0"             // Minimum value
  max="100"           // Maximum value
  step="1"            // Increment/decrement step
  value="1"           // Initial value
></dees-input-quantity-selector>
```

DeesInputMultitoggle

Multi-state toggle button group.

```
<dees-input-multitoggle
  key="status"
  label="Status"
  .options=${[
    { key: 'active', label: 'Active' },
    { key: 'pending', label: 'Pending' },
    { key: 'inactive', label: 'Inactive' }
  ]}
  value="active"      // Initial selected value
></dees-input-multitoggle>
```

`DeesInputRadiogroup`

Radio button group for single-choice selections with internal state management.

```
<dees-input-radiogroup
  key="plan"
  label="Select Plan"
  .options=${['Free', 'Pro', 'Enterprise']}
  selectedOption="Pro"
  required
  @change=${handlePlanChange}
></dees-input-radiogroup>

// With custom option objects
<dees-input-radiogroup
  key="priority"
  label="Priority Level"
  .options=${[
    { key: 'low', label: 'Low Priority' },
    { key: 'medium', label: 'Medium Priority' },
    { key: 'high', label: 'High Priority' }
  ]}
  selectedOption="medium"
></dees-input-radiogroup>
```

`DeesInputTags`

Tag input component for managing lists of tags with auto-complete and validation.

```
<dees-input-tags
  key="skills"
  label="Skills"
  .value=${['JavaScript', 'TypeScript', 'CSS']}
  placeholder="Add a skill..."
  .suggestions=${[
    'JavaScript', 'TypeScript', 'Python', 'Go', 'Rust',
    'React', 'Vue', 'Angular', 'Node.js', 'Docker'
  ]}
  maxTags={10}  // Optional: limit number of tags
  required
  @change=${handleTagsChange}
></dees-input-tags>
```

Key Features:

- Add tags by pressing Enter or typing comma/semicolon
- Remove tags with click or backspace
- Auto-complete suggestions with keyboard navigation
- Maximum tag limit support
- Full theme support
- Form validation integration

`DeesInputTypelist`

Dynamic list input for managing arrays of typed values.

```
<dees-input-typelist
  key="features"
  label="Product Features"
  placeholder="Add a feature..."
  .value=${['Feature 1', 'Feature 2']}
  @change=${handleFeaturesChange}
></dees-input-typelist>
```

`DeesInputList`

Advanced list input with drag-and-drop reordering, inline editing, and validation.

```
<dees-input-list
  key="items"
  label="List Items"
```

```
  placeholder="Add new item..."
  .value=${['Item 1', 'Item 2', 'Item 3']}
  maxItems={10}            // Optional: maximum items
  minItems={1}             // Optional: minimum items
  allowDuplicates={false}  // Optional: allow duplicate values
  sortable={true}          // Optional: enable drag-and-drop reordering
  confirmDelete={true}     // Optional: confirm before deletion
  @change=${handleListChange}
></dees-input-list>
```

Key Features:

- Add, edit, and remove items inline
- Drag-and-drop reordering with visual feedback
- Optional duplicate prevention
- Min/max item constraints
- Delete confirmation dialog
- Full keyboard support
- Form validation integration

`DeesInputProfilepicture`

Profile picture input with cropping, zoom, and image processing.

```
<dees-input-profilepicture
  key="avatar"
  label="Profile Picture"
  shape="round"           // Options: round, square
  size={120}              // Display size in pixels
  .value=${imageBase64}   // Base64 encoded image or URL
  allowUpload={true}      // Enable upload button
  allowDelete={true}      // Enable delete button
  maxFileSize={5242880}   // Max file size in bytes (5MB)
  .acceptedFormats=${['image/jpeg', 'image/png', 'image/webp']}
  outputSize={800}        // Output resolution in pixels
  outputQuality={0.95}    // JPEG quality (0-1)
  @change=${handleAvatarChange}
></dees-input-profilepicture>
```

Key Features:

- Interactive cropping modal with zoom and pan
- Drag-and-drop file upload

- Round or square output shapes
- Configurable output size and quality
- File size and format validation
- Delete functionality
- Preview on hover

`DeesInputDatepicker`

Date and time picker component with calendar interface and manual typing support.

```
<dees-input-datepicker
  key="eventDate"
  label="Event Date"
  placeholder="YYYY-MM-DD"
  value="2025-01-15T14:30:00Z"  // ISO string format
  dateFormat="YYYY-MM-DD"        // Display format (default: YYYY-MM-DD)
  enableTime={true}              // Enable time selection
  timeFormat="24h"               // Options: 24h, 12h
  minuteIncrement={15}           // Time step in minutes
  minDate="2025-01-01"          // Minimum selectable date
  maxDate="2025-12-31"          // Maximum selectable date
  .disabledDates=${[            // Array of disabled dates
    '2025-01-10',
    '2025-01-11'
  ]}
  weekStartsOn={1}              // 0 = Sunday, 1 = Monday
  required
  @change=${handleDateChange}
></dees-input-datepicker>
```

Key Features:

- Interactive calendar popup
- Manual date typing with multiple formats
- Optional time selection
- Configurable date format
- Min/max date constraints
- Disable specific dates
- Keyboard navigation
- Today button
- Clear functionality
- 12/24 hour time formats
- Theme-aware styling

- Live parsing and validation

Manual Input Formats:

```
// Date formats supported
"2023-12-20"     // ISO format (YYYY-MM-DD)
"20.12.2023"     // European format (DD.MM.YYYY)
"12/20/2023"     // US format (MM/DD/YYYY)

// Date with time (add space and time after any date format)
"2023-12-20 14:30"
"20.12.2023 9:45"
"12/20/2023 16:00"
```

`DeesInputSearchselect`

Search-enabled dropdown selection component.

```
<dees-input-searchselect
  key="category"
  label="Select Category"
  placeholder="Search categories..."
  .options=${[
    { key: 'tech', label: 'Technology' },
    { key: 'health', label: 'Healthcare' },
    { key: 'finance', label: 'Finance' }
  ]}
  required
  @change=${handleCategoryChange}
></dees-input-searchselect>
```

`DeesInputRichtext`

Rich text editor with formatting toolbar powered by TipTap.

```
<dees-input-richtext
  key="content"
  label="Article Content"
  .value=${htmlContent}
  placeholder="Start writing..."
  minHeight={300}      // Minimum editor height
```

```
  showWordCount={true} // Show word/character count
  @change=${handleContentChange}
></dees-input-richtext>
```

Key Features:

- Full formatting toolbar (bold, italic, underline, strike, etc.)
- Heading levels (H1-H6)
- Lists (bullet, ordered)
- Links with URL editing
- Code blocks and inline code
- Blockquotes
- Horizontal rules
- Undo/redo support
- Word and character count
- HTML output

`DeesInputWysiwyg`

Advanced block-based editor with slash commands and rich content blocks.

```
<dees-input-wysiwyg
  key="document"
  label="Document Editor"
  .value=${documentContent}
  outputFormat="html"  // Options: html, markdown, json
  @change=${handleDocumentChange}
></dees-input-wysiwyg>
```

Key Features:

- Slash commands for quick formatting
- Block-based editing (paragraphs, headings, lists, etc.)
- Drag and drop block reordering
- Multiple output formats
- Keyboard shortcuts
- Collaborative editing ready
- Extensible block types

`DeesInputCode`

Code input component for editing source code with syntax highlighting.

```
<dees-input-code
  key="snippet"
  label="Code Snippet"
  .value=${codeString}
  language="typescript"
  @change=${handleCodeChange}
></dees-input-code>
```

`DeesFormSubmit`

Submit button component specifically designed for `DeesForm`.

```
<dees-form-submit
  disabled            // Optional: disable submit button
  status="normal"     // Options: normal, pending, success, error
>Submit Form</dees-form-submit>
```

App Shell (Layout) Components

`DeesAppui` □□

A comprehensive application shell component providing a complete UI framework with navigation, menus, activity logging, bottom bar, and view management.

> **Full API Documentation**: See ts_web/elements/00group-appui/dees-appui/readme.md for complete documentation including all programmatic APIs, view lifecycle hooks, and TypeScript interfaces.

Quick Start:

```
import { html, DeesElement, customElement } from '@design.estate/dees-element';
import { DeesAppui } from '@design.estate/dees-catalog';

@customElement('my-app')
class MyApp extends DeesElement {
  private appui: DeesAppui;
```

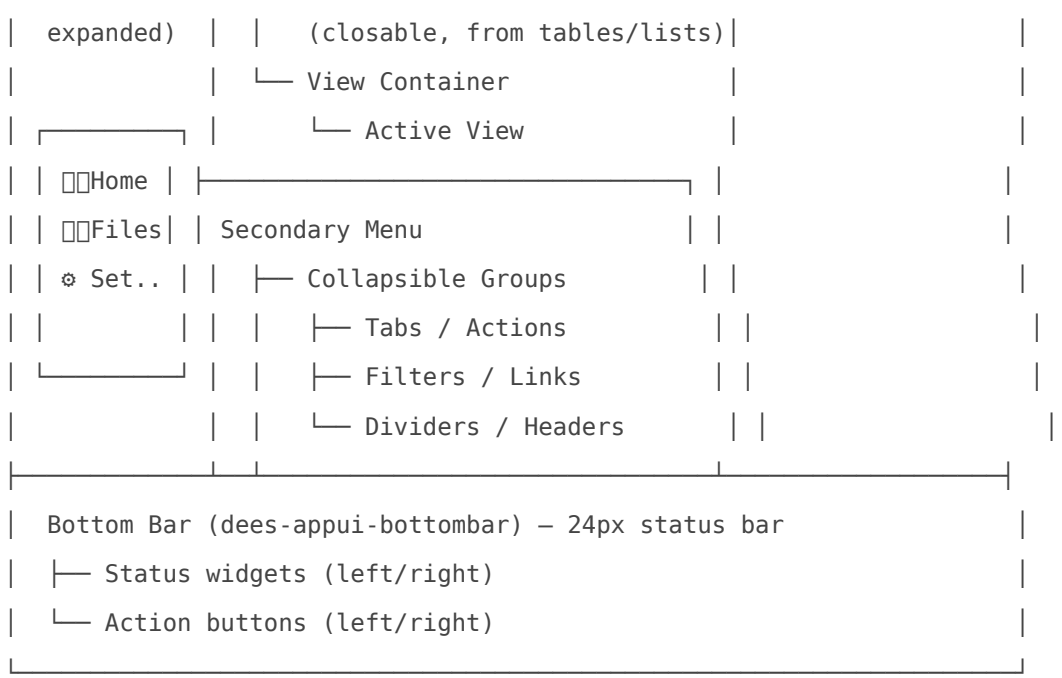
```
  async firstUpdated() {
    this.appui = this.shadowRoot.querySelector('dees-appui');

    this.appui.configure({
      branding: { logoIcon: 'lucide:box', logoText: 'My App' },
      views: [
        { id: 'dashboard', name: 'Dashboard', iconName: 'lucide:home', content: 'my-dashboard'
},
        { id: 'settings', name: 'Settings', iconName: 'lucide:settings', content: 'my-
settings' },
      ],
      mainMenu: {
        sections: [{ name: 'Main', views: ['dashboard', 'settings'] }]
      },
      defaultView: 'dashboard',
      bottomBar: {
        visible: true,
        widgets: [
          { id: 'status', iconName: 'lucide:activity', label: 'Online', status: 'success' }
        ]
      }
    });
  }

  render() {
    return html`<dees-appui></dees-appui>`;
  }
}
```

Architecture Overview:

```
┌──────────────────────────────────────────────────────────────────────┐
│  AppBar (dees-appui-appbar)                                          │
│  ├── Menus (File, Edit, View...)                                     │
│  ├── Breadcrumbs                                                     │
│  ├── User Profile + Dropdown                                         │
│  └── Activity Log Toggle                                             │
├──────────────┬──────────────────────────────────┬────────────────────┤
│ Main Menu    │  Content Area                    │  Activity Log      │
│ (collapsed/  │  ├── Content Tabs                │  (slide panel)     │
```



Configuration (`IAppConfig`):

```
interface IAppConfig {
  branding?: { logoIcon?: string; logoText?: string };
  appBar?: IAppBarConfig;
  views: IViewDefinition[];
  mainMenu?: IMainMenuConfig;
  defaultView?: string;
  activityLog?: IActivityLogConfig;
  bottomBar?: IBottomBarConfig;
  onViewChange?: (viewId: string, view: IViewDefinition) => void;
  onSearch?: (query: string) => void;
}
```

Key Features:

- □□ **Configure API** — Single `configure()` method for complete app setup
- □□ **View Management** — Automatic view caching, lazy loading, and lifecycle hooks (`onActivate`, `onDeactivate`, `canDeactivate`)
- □□ **Hash-based Routing** — Automatic URL synchronization with view navigation and parameterized routes
- □□ **Activity Log** — Slide-out panel with stacked entries, date grouping, search, and filtering
- □□ **Bottom Status Bar** — Configurable widgets and actions with status colors and loading states
- □□ **RxJS Observables** — `viewChanged$` and `viewLifecycle$` for reactive programming
- □□ **TypeScript-first** — Typed `IViewActivationContext` passed to views on activation

Programmatic APIs:

Area	Methods
Navigation	`navigateToView(viewId, params?)`, `getCurrentView()`, `getViewRegistry()`
App Bar	`setAppBarMenus()`, `updateAppBarMenu()`, `setBreadcrumbs()`, `setUser()`, `setProfileMenuItems()`, `setSearchVisible()`, `onSearch()`, `setWindowControlsVisible()`
Main Menu	`setMainMenu()`, `updateMainMenuGroup()`, `addMainMenuItem()`, `removeMainMenuItem()`, `setMainMenuSelection()`, `setMainMenuCollapsed()`, `setMainMenuVisible()`, `setMainMenuBadge()`, `clearMainMenuBadge()`
Secondary Menu	`setSecondaryMenu()`, `updateSecondaryMenuGroup()`, `addSecondaryMenuItem()`, `setSecondaryMenuSelection()`, `setSecondaryMenuCollapsed()`, `setSecondaryMenuVisible()`, `clearSecondaryMenu()`
Content Tabs	`setContentTabs()`, `addContentTab()`, `removeContentTab()`, `selectContentTab()`, `getSelectedContentTab()`, `setContentTabsVisible()`, `setContentTabsAutoHide()`
Activity Log	`activityLog.add()`, `activityLog.addMany()`, `activityLog.clear()`, `activityLog.getEntries()`, `activityLog.filter()`, `activityLog.search()`, `setActivityLogVisible()`, `toggleActivityLog()`, `getActivityLogVisible()`
Bottom Bar	`bottomBar.addWidget()`, `bottomBar.updateWidget()`, `bottomBar.removeWidget()`, `bottomBar.getWidget()`, `bottomBar.clearWidgets()`, `bottomBar.addAction()`, `bottomBar.removeAction()`, `bottomBar.clearActions()`, `setBottomBarVisible()`, `getBottomBarVisible()`
Observables	`viewChanged$`, `viewLifecycle$`

View Lifecycle Hooks:

```
import { DeesElement, customElement } from '@design.estate/dees-element';
import type { IViewActivationContext, IViewLifecycle } from '@design.estate/dees-catalog';

@customElement('my-settings-view')
class MySettingsView extends DeesElement implements IViewLifecycle {
  // Called when view becomes visible
  async onActivate(context: IViewActivationContext) {
    const { appui, viewId, params } = context;

    // Set view-specific secondary menu
    appui.setSecondaryMenu({
      heading: 'Settings',
```

```
      groups: [{ name: 'Options', items: [...] }]
    });

    // Control visibility of other shell parts
    appui.setContentTabsVisible(false);
    appui.setSecondaryMenuVisible(true);
  }

  // Called when navigating away
  onDeactivate() { /* cleanup */ }

  // Return false or a message string to block navigation
  canDeactivate(): boolean | string {
    if (this.hasUnsavedChanges) return 'You have unsaved changes. Leave anyway?';
    return true;
  }
}
```

Secondary Menu Item Types:

The secondary menu supports **8 distinct item types** for building rich contextual sidebars:

Type	Description
Tab (default)	Selectable item that stays highlighted
Action	Executes on click without staying selected (blue styling)
Filter	Checkbox toggle for filtering
MultiFilter	Collapsible multi-select filter box
Divider	Visual separator line
Header	Non-interactive section label
Link	Opens an external URL
Danger Action	Red-styled action with optional confirmation

`DeesAppuiMainmenu`

Main navigation menu component for application-wide navigation. Supports collapsed (icon-only) mode.

```
<dees-appui-mainmenu
  .menuGroups=${[
```

```
    {
      name: 'Main',
      items: [
        { key: 'dashboard', iconName: 'lucide:home', action: () => navigate('dashboard') },
        { key: 'settings', iconName: 'lucide:settings', action: () => navigate('settings') }
      ]
    }
  ]}
  collapsed           // Optional: show collapsed icon-only version
></dees-appui-mainmenu>
```

DeesAppuiSecondarymenu

Secondary navigation component for sub-section selection with collapsible groups, badges, and 8 item types.

```
<dees-appui-secondarymenu
  .heading=${'Projects'}
  .groups=${[
    {
      name: 'Active',
      iconName: 'lucide:folder',
      items: [
        { key: 'Frontend App', iconName: 'lucide:code', action: () => select('frontend'),
badge: 3, badgeVariant: 'warning' },
        { key: 'API Server', iconName: 'lucide:server', action: () => select('api') }
      ]
    }
  ]}
  @item-select=${handleSectionChange}
></dees-appui-secondarymenu>
```

DeesAppuiMaincontent

Main content area with tab management support.

```
<dees-appui-maincontent
  .tabs=${[
    { key: 'Overview', iconName: 'lucide:home', action: () => selectTab('overview') },
    { key: 'Details', iconName: 'lucide:info', action: () => selectTab('details') }
  ]}
```

```
  @tab-select=${handleTabChange}
>
  <!-- Content goes here -->
</dees-appui-maincontent>
```

`DeesAppuiAppbar`

Professional application bar component with hierarchical menus, breadcrumb navigation, user account management, and activity log toggle.

```
<dees-appui-appbar
  .menuItems=${[
    {
      name: 'File',
      action: async () => {},
      submenu: [
        { name: 'New File', shortcut: 'Cmd+N', iconName: 'file-plus', action: async () =>
handleNewFile() },
        { name: 'Open...', shortcut: 'Cmd+O', iconName: 'folder-open', action: async () =>
handleOpen() },
        { divider: true },
        { name: 'Save', shortcut: 'Cmd+S', iconName: 'save', action: async () => handleSave(),
disabled: true }
      ]
    }
  ]}
  .breadcrumbs=${'Project > src > components'}
  .showWindowControls=${true}
  .showSearch=${true}
  .showActivityLogToggle=${true}
  .activityLogCount=${5}
  .activityLogActive=${false}
  .user=${{
    name: 'John Doe',
    avatar: '/path/to/avatar.jpg',
    status: 'online'  // Options: 'online' | 'offline' | 'busy' | 'away'
  }}
  @menu-select=${(e) => handleMenuSelect(e.detail.item)}
  @breadcrumb-navigate=${(e) => handleBreadcrumbClick(e.detail)}
  @activity-toggle=${() => handleActivityToggle()}
```

```
></dees-appui-appbar>
```

Key Features:

- **Hierarchical Menu System** — Top-level menus with dropdown submenus, icons, and keyboard shortcuts
- **Keyboard Navigation** — Full keyboard support (Tab, Arrow keys, Enter, Escape)
- **Breadcrumb Navigation** — Customizable breadcrumb trail with click events
- **User Account Section** — Avatar with status indicator and profile dropdown
- **Activity Log Toggle** — Button with badge count to show/hide activity panel
- **Accessibility** — Full ARIA support with menubar roles

`DeesAppuiActivitylog`

Real-time activity log panel for displaying user actions and system events.

```
<dees-appui-activitylog></dees-appui-activitylog>

// Programmatic API
activityLog.add({
  type: 'update',        // Options: login, logout, view, create, update, delete, custom
  user: 'John Doe',
  message: 'Updated project settings',
  iconName: 'lucide:settings'  // Optional: custom icon
});

activityLog.addMany(entries);  // Add multiple entries
activityLog.clear();           // Clear all entries
activityLog.getEntries();      // Get all entries
activityLog.filter({ user: 'John' });  // Filter by user/type
activityLog.search('settings');        // Search by message
```

Key Features:

- Stacked entry layout with icon, user, timestamp, and message
- Date grouping (Today, Yesterday, etc.)
- Search and filter functionality
- Context menu for entry actions
- Live streaming indicator
- Animated slide-in/out panel
- Theme-aware styling

`DeesAppuiBottombar`

A 24px fixed-height status bar at the bottom of the application shell. Supports status widgets and action buttons positioned left or right.

```
// Configure via DeesAppui
appui.configure({
  bottomBar: {
    visible: true,
    widgets: [
      {
        id: 'status',
        iconName: 'lucide:activity',
        label: 'System Online',
        status: 'success',       // 'idle' | 'active' | 'success' | 'warning' | 'error'
        tooltip: 'All systems operational',
        onClick: () => console.log('Status clicked'),
      },
      {
        id: 'version',
        iconName: 'lucide:gitBranch',
        label: 'v1.2.3',
        position: 'right',
      }
    ],
    actions: [
      {
        id: 'terminal',
        iconName: 'lucide:terminal',
        tooltip: 'Open Terminal',
        position: 'right',
        onClick: () => console.log('Terminal clicked'),
      }
    ]
  }
});

// Programmatic updates
appui.bottomBar.addWidget({ id: 'build', iconName: 'lucide:hammer', label: 'Building...',
loading: true, status: 'active' });
appui.bottomBar.updateWidget('build', { label: 'Build complete', loading: false, status:
'success' });
```

```
appui.bottomBar.removeWidget('build');

appui.bottomBar.addAction({ id: 'refresh', iconName: 'lucide:refreshCw', onClick: () =>
location.reload() });
appui.bottomBar.removeAction('refresh');

appui.setBottomBarVisible(false);
```

Key Features:

- Configurable status widgets with icons, labels, and colored status indicators
- Loading spinner state for widgets
- Contextual actions with icon buttons
- Left/right positioning for both widgets and actions
- Tooltips on hover
- Context menu support per widget

`DeesAppuiTabs`

Reusable tab component with horizontal/vertical layout support.

```
<dees-appui-tabs
  .tabs=${[
    { key: 'Home', iconName: 'lucide:home', action: () => console.log('Home') },
    { key: 'Settings', iconName: 'lucide:settings', action: () => console.log('Settings') }
  ]}
  tabStyle="horizontal"  // Options: horizontal, vertical
  showTabIndicator={true}
  @tab-select=${handleTabSelect}
></dees-appui-tabs>
```

Data Display Components

`DeesTable`

Advanced table component with sorting, filtering, and action support.

```
<dees-table
  .data=${tableData}
  .displayFunction=${(item) => ({
    name: item.name,
```

```
    date: item.date,
    amount: item.amount,
    description: item.description
  })}
  .dataActions=${[
    {
      name: 'Edit',
      icon: 'edit',
      action: (item) => handleEdit(item)
    },
    {
      name: 'Delete',
      icon: 'trash',
      action: (item) => handleDelete(item)
    }
  ]}
  heading1="Transactions"
  heading2="Recent Activity"
  searchable           // Enable search functionality
  dataName="transaction"  // Name for single data item
  @selection-change=${handleSelectionChange}
></dees-table>
```

Advanced Features:

- Schema-first columns or `displayFunction` rendering
- Sorting via header clicks with `aria-sort` + `sortChange`
- Global search with Lucene-like syntax; modes: `table`, `data`, `server`
- Per-column quick filters row; `showColumnFilters` and `column.filterable=false`
- Selection: `none` | `single` | `multi`, with select-all and `selectionChange`
- Sticky header + internal scroll (`stickyHeader`, `--table-max-height`)
- Rich actions: header/in-row/contextmenu/footer/doubleClick; pinned Actions column
- Editable cells via `editableFields`
- Drag & drop files onto rows

`DeesDataviewCodebox`

Code display component with syntax highlighting and line numbers.

```
<dees-dataview-codebox
  progLang="typescript"  // Programming language for syntax highlighting
  .codeToDisplay=${`
```

```
    import { html } from '@design.estate/dees-element';

    export const myComponent = () => {
      return html\`<div>Hello World</div>\`;
    };
  `}
></dees-dataview-codebox>
```

DeesDataviewStatusobject

Status display component for complex objects with nested status indicators.

```
<dees-dataview-statusobject
  .statusObject=${{
    id: '1',
    name: 'System Status',
    combinedStatus: 'partly_ok',
    combinedStatusText: 'Partially OK',
    details: [
      { name: 'Database', value: 'Connected', status: 'ok', statusText: 'OK' },
      { name: 'API Service', value: 'Degraded', status: 'partly_ok', statusText: 'Partially
OK' }
    ]
  }}
></dees-dataview-statusobject>
```

DeesPdf

PDF viewer component with navigation and zoom controls.

```
<dees-pdf
  source="path/to/document.pdf"  // URL or base64 encoded PDF
  page={1}            // Current page number
  scale={1.0}         // Zoom level
  .controls=${['zoom', 'download', 'print', 'navigation']}
  @page-change=${handlePageChange}
></dees-pdf>
```

DeesStatsGrid

A responsive grid component for displaying statistical data with various visualization types.

```
<dees-statsgrid
  .tiles=${[
    {
      id: 'revenue',
      title: 'Total Revenue',
      value: 125420,
      unit: '$',
      type: 'number',
      icon: 'lucide:dollarSign',
      description: '+12.5% from last month',
      color: '#22c55e'
    },
    {
      id: 'cpu',
      title: 'CPU Usage',
      value: 73,
      type: 'gauge',
      icon: 'lucide:cpu',
      gaugeOptions: {
        min: 0, max: 100,
        thresholds: [
          { value: 0, color: '#22c55e' },
          { value: 60, color: '#f59e0b' },
          { value: 80, color: '#ef4444' }
        ]
      }
    },
    {
      id: 'requests',
      title: 'API Requests',
      value: '1.2k',
      unit: '/min',
      type: 'trend',
      icon: 'lucide:server',
      trendData: [45, 52, 38, 65, 72, 68, 75, 82, 79, 85, 88, 92]
    },
    {
      id: 'cores',
      title: 'CPU Cores',
      value: 0,
```

```
      type: 'cpuCores',
      icon: 'lucide:cpu',
      columnSpan: 2,
      coresData: [
        { id: 0, usage: 45, label: '0' },
        { id: 1, usage: 72, label: '1' },
        { id: 2, usage: 30, label: '2' },
        { id: 3, usage: 88, label: '3' }
      ]
    }
  ]}
  .minTileWidth=${250}
  .gap=${16}
></dees-statsgrid>
```

Tile Types: `number`, `gauge`, `percentage`, `trend`, `text`, `multiPercentage`, `cpuCores`

`DeesPagination`

Pagination component for navigating through large datasets.

```
<dees-pagination
  totalItems={500}
  itemsPerPage={20}
  currentPage={1}
  maxVisiblePages={7}
  @page-change=${handlePageChange}
></dees-pagination>
```

Media & Tile Components □□

A rich collection of tile-based preview components for displaying media files in grids. All tiles share a consistent base class (`DeesTileBase`) with lazy loading via `IntersectionObserver`, hover interactions, click events, context menus, and three size variants (`small`, `default`, `large`).

All tile badges use a unified styling system with label-awareness — when a `label` is set, bottom badges automatically shift up to avoid overlapping.

`DeesTilePdf`

PDF document tile with live page preview on hover.

```
<dees-tile-pdf
  pdfUrl="/documents/report.pdf"
  label="Annual Report"
  clickable
  @tile-click=${handleClick}
></dees-tile-pdf>
```

Key Features:

- Renders first page as canvas preview
- Hover to scrub through pages (mouse X position maps to page number)
- Shows page count badge, hover page indicator
- Detects A4/Letter vs non-standard aspect ratios

`DeesTileImage`

Image tile with lazy loading and dimension display.

```
<dees-tile-image
  src="/photos/landscape.jpg"
  alt="Mountain landscape"
  label="landscape.jpg"
  clickable
  @tile-click=${handleClick}
></dees-tile-image>
```

Key Features:

- Lazy loads image on scroll into view
- Shows image dimensions on hover (e.g. "1920 × 1080")
- Checkerboard background for transparent images

`DeesTileAudio`

Audio file tile with waveform visualization.

```
<dees-tile-audio
  src="/music/track.mp3"
  title="Summer Vibes"
  artist="DJ Example"
  clickable
  @tile-click=${handleClick}
></dees-tile-audio>
```

Key Features:

- Generates waveform visualization from audio data
- Shows duration badge (e.g. "3:42")
- Displays title and artist metadata
- Play overlay on hover

`DeesTileVideo`

Video tile with thumbnail capture and hover preview.

```
<dees-tile-video
  src="/videos/intro.mp4"
  poster="/thumbs/intro.jpg"
  label="Introduction"
  clickable
  @tile-click=${handleClick}
></dees-tile-video>
```

Key Features:

- Auto-captures first frame as thumbnail (or uses provided `poster`)
- Plays video preview on hover
- Shows duration badge
- Play button overlay

`DeesTileNote`

Code/text snippet tile with syntax-aware display.

```
<dees-tile-note
  title="config.ts"
  language="TypeScript"
  .content=${codeString}
  clickable
  @tile-click=${handleClick}
></dees-tile-note>
```

Key Features:

- Monospace font with line numbers
- Language badge (top-right)
- Scrollable content on hover (mouse X position controls scroll)
- Line indicator badge while scrolling

- Gradient fade at bottom

`DeesTileFolder`

Folder tile with 2×2 content preview grid.

```
<dees-tile-folder
  name="Project Assets"
  .items=${[
    { type: 'image', name: 'logo.png', thumbnailSrc: '/thumbs/logo.png' },
    { type: 'pdf', name: 'spec.pdf' },
    { type: 'audio', name: 'jingle.mp3' },
    { type: 'video', name: 'demo.mp4' },
  ]}
  clickable
  @tile-click=${handleClick}
></dees-tile-folder>
```

Key Features:

- 2×2 preview grid showing first 4 items (thumbnails or type icons)
- Item count badge (e.g. "12 items")
- Folder icon header with name
- Supports: `pdf`, `image`, `audio`, `video`, `note`, `folder`, `unknown` types

`DeesPreview`

Unified preview component that auto-selects the right tile type based on content.

`DeesPdfViewer` / `DeesPdfPreview`

Full PDF viewing components with navigation controls.

`DeesImageViewer`

Full-screen image viewer with zoom and pan.

`DeesAudioViewer`

Audio playback component with waveform and controls.

`DeesVideoViewer`

Video playback component with standard controls.

Visualization Components

`DeesChartArea`

Area chart component built on ApexCharts for visualizing time-series data.

```
<dees-chart-area
  label="System Usage"
  .series=${[
    {
      name: 'CPU',
      data: [
        { x: '2025-01-15T03:00:00', y: 25 },
        { x: '2025-01-15T07:00:00', y: 30 },
        { x: '2025-01-15T11:00:00', y: 20 }
      ]
    }
  ]}
></dees-chart-area>
```

`DeesChartLog`

Specialized chart component for visualizing log data and events.

```
<dees-chart-log
  label="System Events"
  .data=${[
    { timestamp: '2025-01-15T03:00:00', event: 'Server Start', type: 'info' },
    { timestamp: '2025-01-15T03:15:00', event: 'Error Detected', type: 'error' }
  ]}
  .filters=${['info', 'warning', 'error']}
  @event-click=${handleEventClick}
></dees-chart-log>
```

Dialogs & Overlays Components

`DeesModal`

Modal dialog component with customizable content and actions.

```
// Programmatic usage
DeesModal.createAndShow({
  heading: 'Confirm Action',
  content: html`
    <dees-form>
      <dees-input-text .label=${'Enter reason'}></dees-input-text>
    </dees-form>
  `,
  menuOptions: [
    { name: 'Cancel', action: async (modal) => { modal.destroy(); return null; } },
    { name: 'Confirm', action: async (modal) => { /* handle */ modal.destroy(); return null; }
}
  ]
});
```

DeesContextmenu

Context menu component for right-click actions with nested submenu support.

```
// Programmatic usage
DeesContextmenu.openContextMenuWithOptions(mouseEvent, [
  {
    name: 'Edit',
    iconName: 'lucide:edit',
    action: async () => handleEdit()
  },
  { divider: true },
  {
    name: 'More Options',
    iconName: 'lucide:moreHorizontal',
    submenu: [
      { name: 'Duplicate', iconName: 'lucide:copy', action: async () => handleDuplicate() },
      { name: 'Archive', iconName: 'lucide:archive', action: async () => handleArchive() },
    ]
  },
  {
    name: 'Delete',
    iconName: 'lucide:trash2',
    action: async () => handleDelete()
  }
```

```
]);

// Component-based (implement getContextMenuItems on any element)
class MyComponent extends DeesElement {
  getContextMenuItems() {
    return [
      { name: 'View Details', iconName: 'lucide:eye', action: async () => { ... } },
      { name: 'Edit', iconName: 'lucide:edit', action: async () => { ... } },
    ];
  }
}
```

`DeesSpeechbubble`

Tooltip-style speech bubble component for contextual information.

```
// Programmatic usage
const bubble = await DeesSpeechbubble.createAndShow(
  referenceElement,
  'Helpful information about this feature'
);
```

`DeesWindowlayer`

Base overlay component used by modal dialogs and other overlay components.

```
const layer = await DeesWindowLayer.createAndShow({
  blur: true,
});
```

Navigation Components

`DeesStepper`

Multi-step navigation component for guided user flows.

```
<dees-stepper
  .steps=${[
    { key: 'personal', label: 'Personal Info', content: html`<div>Form 1</div>` },
    { key: 'address', label: 'Address', content: html`<div>Form 2</div>` },
```

```
    { key: 'confirm', label: 'Confirmation', content: html`<div>Review</div>` }
  ]}
  currentStep="personal"
  @step-change=${handleStepChange}
  @complete=${handleComplete}
></dees-stepper>
```

`DeesProgressbar`

Progress indicator component for tracking completion status.

```
<dees-progressbar
  value={75}
  label="Uploading"
  showPercentage
  type="determinate"  // Options: determinate, indeterminate
  status="normal"     // Options: normal, success, warning, error
></dees-progressbar>
```

Theming Components

`DeesTheme`

Theme provider component that wraps children and provides CSS custom properties for consistent theming.

```
// Basic usage - wrap your app
<dees-theme>
  <my-app></my-app>
</dees-theme>

// With custom overrides
<dees-theme
  .customColors=${{
    primary: '#007bff',
    success: '#28a745'
  }}
  .customSpacing=${{
    lg: '24px',
```

```
    xl: '32px'
  }}
>
  <my-section></my-section>
</dees-theme>
```

Key Features:

- Provides CSS custom properties for colors, spacing, radius, shadows, and transitions
- Can be nested for section-specific theming
- Works with dark/light mode
- Overrides cascade to all child components

Workspace / IDE Components □□

A full-featured IDE workspace component suite for building browser-based code editors, terminal interfaces, and documentation viewers.

`DeesWorkspace`

Top-level workspace shell that composes editor, file tree, terminal, and bottom bar into an IDE-like layout.

```
<dees-workspace></dees-workspace>
```

`DeesWorkspaceMonaco`

Monaco Editor integration for code editing with full IntelliSense, syntax highlighting, and language support.

```
<dees-workspace-monaco
  .value=${code}
  .language=${'typescript'}
  @change=${handleCodeChange}
></dees-workspace-monaco>
```

`DeesWorkspaceDiffEditor`

Side-by-side diff editor powered by Monaco for comparing file versions.

```
<dees-workspace-diff-editor
  .originalValue=${originalCode}
```

```
  .modifiedValue=${modifiedCode}
  .language=${'typescript'}
></dees-workspace-diff-editor>
```

`DeesWorkspaceFiletree`

File tree navigation component with expand/collapse, file icons, and selection.

```
<dees-workspace-filetree
  .files=${fileTreeData}
  @file-select=${handleFileSelect}
></dees-workspace-filetree>
```

`DeesWorkspaceTerminal`

Terminal emulator component powered by xterm.js.

```
<dees-workspace-terminal></dees-workspace-terminal>
```

`DeesWorkspaceTerminalPreview`

Terminal with integrated preview pane for output visualization.

`DeesWorkspaceMarkdown`

Markdown editor with live preview.

`DeesWorkspaceMarkdownoutlet`

Read-only markdown renderer for documentation display.

`DeesWorkspaceBottombar`

IDE-style bottom status bar for the workspace.

Pre-built Templates

`DeesSimpleAppdash`

Simple application dashboard component for quick prototyping.

```
<dees-simple-appdash
  .appTitle=${'My Application'}
  .menuItems=${[
    { name: 'Dashboard', icon: 'home', route: '/dashboard' },
    { name: 'Settings', icon: 'settings', route: '/settings' }
  ]}
  .user=${{ name: 'John Doe', role: 'Administrator' }}
  @menu-select=${handleMenuSelect}
>
  <!-- Dashboard content -->
</dees-simple-appdash>
```

`DeesSimpleLogin`

Simple login form component with validation and customization.

```
<dees-simple-login
  .appName=${'My Application'}
  .logo=${'./assets/logo.png'}
  .backgroundImage=${'./assets/background.jpg'}
  .fields=${['username', 'password']}
  showForgotPassword
  showRememberMe
  @login=${handleLogin}
  @forgot-password=${handleForgotPassword}
></dees-simple-login>
```

Shopping Components

`DeesShoppingProductcard`

Product card component for e-commerce applications.

```
<dees-shopping-productcard
  .productData=${{
    name: 'Premium Headphones',
    category: 'Electronics',
    description: 'High-quality wireless headphones with noise cancellation',
    price: 199.99,
```

```
    originalPrice: 249.99,
    currency: '$',
    inStock: true,
    imageUrl: '/images/headphones.jpg'
  }}
  quantity={1}
  showQuantitySelector={true}
  @quantityChange=${handleQuantityChange}
></dees-shopping-productcard>
```

□□ TypeScript Interfaces

The library exports unified interfaces for consistent API patterns:

```
// Base menu item interface (used by tabs, menus, etc.)
interface IMenuItem {
  key: string;
  iconName?: string;
  action: () => void;
  badge?: string | number;
  badgeVariant?: 'default' | 'success' | 'warning' | 'error';
  closeable?: boolean;
  onClose?: () => void;
}

// Menu group interface for organized menus
interface IMenuGroup {
  name: string;
  items: IMenuItem[];
  collapsed?: boolean;
  iconName?: string;
}

// View definition for app navigation
interface IViewDefinition {
  id: string;
  name: string;
```

```
  iconName?: string;
  content: string | (new () => HTMLElement) | (() => TemplateResult) | (() => Promise<any>);
  secondaryMenu?: ISecondaryMenuGroup[];
  contentTabs?: IMenuItem[];
  route?: string;
  badge?: string | number;
  badgeVariant?: 'default' | 'success' | 'warning' | 'error';
  cache?: boolean;
}

// Activity log entry
interface IActivityEntry {
  id?: string;
  timestamp?: Date;
  type: 'login' | 'logout' | 'view' | 'create' | 'update' | 'delete' | 'custom';
  user: string;
  message: string;
  iconName?: string;
  data?: Record<string, unknown>;
}

// Bottom bar widget
interface IBottomBarWidget {
  id: string;
  iconName?: string;
  label?: string;
  status?: 'idle' | 'active' | 'success' | 'warning' | 'error';
  tooltip?: string;
  loading?: boolean;
  onClick?: () => void;
  position?: 'left' | 'right';
  order?: number;
}

// Bottom bar action button
interface IBottomBarAction {
  id: string;
  iconName: string;
  tooltip?: string;
  onClick: () => void | Promise<void>;
```

```
  disabled?: boolean;
  position?: 'left' | 'right';
}

// View activation context (passed to onActivate)
interface IViewActivationContext {
  appui: DeesAppui;
  viewId: string;
  params?: Record<string, string>;
}

// Tile folder item (for DeesTileFolder)
interface ITileFolderItem {
  type: 'pdf' | 'image' | 'audio' | 'video' | 'note' | 'folder' | 'unknown';
  thumbnailSrc?: string;
  name: string;
}
```

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Company Information

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