

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

A powerful TypeScript framework for dynamically generating professional business documents like invoices with web components and PDF export capabilities. ☐

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Installation

```
pnpm install @design.estate/dees-document
```

Features

- ☐ **PDF Generation** - Server-side PDF creation from structured data using Puppeteer
- ☐ **Web Components** - Lit-based custom elements for document rendering
- ☐ **Multi-language Support** - Built-in translation system (EN, DE, ES)
- ☐ **Automatic Pagination** - Smart content overflow handling across pages
- ☐ **QR Payment Codes** - EPC QR codes for SEPA payments
- ☐ **Print Mode** - Optimized rendering for both screen and print
- ☐ **A4 Format** - Precise DIN A4 document dimensions
- ☐ **Theming** - Customizable colors, backgrounds, and branding

Usage

Server-Side PDF Generation

```
import { PdfService } from '@design.estate/dees-document';
import type { TInvoice } from '@tsclass/tsclass/finance';

// Initialize the PDF service
const pdfService = new PdfService({});
await pdfService.start();

// Create invoice data
const invoice: TInvoice = {
  type: 'invoice',
  invoiceType: 'debitnote',
  id: 'INV-2024-001',
  invoiceId: 'INV-2024-001',
  date: Date.now(),
  currency: 'EUR',
  dueInDays: 30,
  reverseCharge: false,
  from: {
    name: 'Your Company GmbH',
    type: 'company',
    status: 'active',
    address: {
      streetName: 'Business Street',
      houseNumber: '123',
      city: 'Berlin',
      country: 'Germany',
      postalCode: '10115',
    },
  },
  sepaConnection: {
    bic: 'DEUTDEFF',
    iban: 'DE89370400440532013000',
  },
  registrationDetails: {
```

```
    vatId: 'DE123456789',
    registrationName: 'Amtsgericht Berlin',
    registrationId: 'HRB 12345',
  },
},
to: {
  name: 'Customer Inc.',
  type: 'company',
  status: 'active',
  address: {
    streetName: 'Client Avenue',
    houseNumber: '456',
    city: 'Munich',
    country: 'Germany',
    postalCode: '80331',
  },
  registrationDetails: {
    vatId: 'DE987654321',
  },
},
items: [
  {
    name: 'Web Development Services',
    unitQuantity: 40,
    unitNetPrice: 95,
    unitType: 'hours',
    vatPercentage: 19,
    position: 1,
  },
  {
    name: 'Hosting (Annual)',
    unitQuantity: 1,
    unitNetPrice: 299,
    unitType: 'item',
    vatPercentage: 19,
    position: 2,
  },
],
subject: 'Invoice INV-2024-001',
```

```

versionInfo: {
  type: 'final',
  version: '1.0.0',
},
};

// Generate PDF
const pdfResult = await pdfService.createPdfFromLetterObject({
  letterData: invoice,
  documentSettings: {
    languageCode: 'EN',
    enableDefaultHeader: true,
    enableDefaultFooter: true,
    enableFoldMarks: true,
    dateStyle: 'long',
  },
});

// Save to file
import { SmartFs, SmartFsProviderNode } from '@push.rocks/smartfs';
const fs = new SmartFs(new SmartFsProviderNode());
await fs.file('./invoice.pdf').write(Buffer.from(pdfResult.buffer));

// Don't forget to stop the service when done
await pdfService.stop();

```

Document Settings

Customize document appearance with `IDocumentSettings`:

```

const documentSettings = {
  // Language for translations
  languageCode: 'DE', // 'EN' | 'DE' | 'ES'

  // Layout options
  enableDefaultHeader: true,
  enableDefaultFooter: true,
  enableFoldMarks: true,
  enableTopDraftText: true,

```

```
enableInvoiceContractRefSection: true,

// Display options
vatGroupPositions: true,
dateStyle: 'long', // 'short' | 'medium' | 'long' | 'full'

// Theming
theme: {
  colorPrimaryForeground: '#ffffff',
  colorPrimaryBackground: '#e4002b',
  colorAccentForeground: '#333333',
  colorAccentBackground: '#f5f5f5',
  pageBackground: 'url(your-watermark.png)',
  coverPageBackground: 'url(your-cover.png)',
},
};
```

Web Component Usage

For browser-based document viewing:

```
import '@design.estate/dees-document/web';

// In your HTML/Lit template
html`
  <dedocument-viewer
    .letterData=${invoiceData}
    .documentSettings=${documentSettings}
  ></dedocument-viewer>
`;

// Or render the document directly
html`
  <dedocument-dedocument
    .letterData=${invoiceData}
    .documentSettings=${documentSettings}
  ></dedocument-dedocument>
`;
```

Translation System

The package includes a translation system for multi-language document generation:

```
import { translate } from '@design.estate/dees-document/shared';

// Translate document labels
translate('DE', 'invoice@@totalGross'); // "Gesamtbetrag (Brutto)"
translate('EN', 'invoice@@totalGross'); // "Total (Gross)"
translate('ES', 'invoice@@totalGross'); // "Total (Bruto)"
```

Module Exports

The package provides multiple entry points:

```
// Node.js server-side (PDF generation)
import { PdfService } from '@design.estate/dees-document';
import { PdfService } from '@design.estate/dees-document/node';

// Browser web components
import '@design.estate/dees-document/web';

// Shared utilities and types
import { translate, IDocumentSettings } from '@design.estate/dees-document/shared';

// TypeScript interfaces
import type { IDocumentSettings } from '@design.estate/dees-document/interfaces';
```

Document Components

The framework includes these web components:

| Component | Description |
|--|---|
| <code><dedocument-dedocument></code> | Main document container with pagination |
| <code><dedocument-viewer></code> | Document viewer with controls |

| Component | Description |
|-----------------------------|-------------------------------------|
| <dedocument-page> | Single A4 page with scaling support |
| <dedocument-pageheader> | Company logo and branding header |
| <dedocument-letterheader> | Sender/recipient addresses |
| <dedocument-pagecontent> | Main content area |
| <dedocument-pagefooter> | Company info and page numbers |
| <dedocument-contentinvoice> | Invoice-specific content layout |
| <dedocument-paymentcode> | EPC QR code for SEPA payments |

Draft vs Final Documents

Control document version display:

```
const invoice = {
  // ... other fields
  versionInfo: {
    type: 'draft', // Shows watermark "DRAFT" across pages
    version: '0.1.0',
  },
};

// For final documents
const invoice = {
  // ... other fields
  versionInfo: {
    type: 'final', // Clean document without watermark
    version: '1.0.0',
  },
};
```

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