

Multi-language Support Documentation

Project Name: Omnibook - Multilingual Book Management System

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Task: Task 15 – React Development

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1. Objective

To implement a comprehensive multi-language support using `react-i18next` in a React-based book management application, enabling users to seamlessly switch languages and localize content.

2. Project Structure

```
src/  
├── components/  
│   ├── BookCard.jsx  
│   ├── BookDetailModal.jsx  
│   ├── BookForm.jsx  
│   ├── Header.jsx  
│   ├── Footer.jsx  
│   └── LanguageSwitcher.jsx  
├── data/  
│   └── books.js  
├── lang/  
│   ├── en/translation.json  
│   ├── es/translation.json  
│   ├── hi/translation.json  
│   ├── ja/translation.json  
│   └── ko/translation.json  
├── utils/  
│   └── formatters.js  
├── App.jsx  
├── main.jsx  
├── i18n.js  
└── index.css
```

3. Adding a New Language

Step 1: Create a New Translation File

```
mkdir src/lang/fr
nano src/lang/fr/translation.json
```

Step 2: Add Translations

```
{
  "app": { "title": "Omnibook" },
  "navigation": { "home": "Accueil", "books": "Livres" }
}
```

Step 3: Update Language Switcher

```
{ code: 'fr', label: 'Français', flag: '🇫🇷' }
```

Step 4: Add to i18n Configuration

```
fr: { translation: require('./lang/fr/translation.json') }
```

4. Dependencies

Library	Version	Description
react-i18next	15.6.0	React bindings for i18next
i18next	latest	Core i18n library
i18next-browser-languagedetector	8.2.0	Auto-detects browser language
i18next-http-backend	3.0.2	Loads translation files via HTTP
Tailwind CSS	4.1.11	Styling
Vite	7.0.4	Frontend bundler

5. Live Demo

URL: <https://omnibook-beta.vercel.app/>