

FetchErrorTranslator - Fetch API Error Translation System

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Enterprise-grade translation system for Fetch API errors with intelligent pattern matching, multi-language support, and configurable caching. Convert cryptic error messages into user-friendly, localized text.

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Installation

NPM / Yarn



bash

```
npm install @wlindabla/form_validator
# or
yarn add @wlindabla/form_validator
```

Import



typescript

```
// Import singleton instance (recommended)
import { fetchErrorTranslator } from '@wlindabla/form_validator';

// Or import class
import { FetchErrorTranslator } from '@wlindabla/form_validator';

// Create custom instance
const translator = new FetchErrorTranslator({
  defaultLanguage: 'fr',
  debug: true
});
```

Basic Usage

Simple Translation



typescript

```
import { fetchErrorTranslator } from '@wlandabla/form_validator';

try {
  const response = await fetch('/api/data');
  if (!response.ok) throw new Error('HTTP Error');
} catch (error) {
  // Translate error to user-friendly message
  const message = fetchErrorTranslator.translate(error.name, error);
  console.error(message);
  // "Network error - Check your internet connection"
}
```

With Specific Language



typescript

```
try {
  await fetch('/api/data');
} catch (error) {
  // English
  const enMessage = fetchErrorTranslator.translate(error.name, error, 'en');
  console.log(enMessage); // "Network error - Check your internet connection"

  // French
  const frMessage = fetchErrorTranslator.translate(error.name, error, 'fr');
  console.log(frMessage); // "Erreur réseau - Vérifiez votre connexion internet"

  // Spanish
  const esMessage = fetchErrorTranslator.translate(error.name, error, 'es');
  console.log(esMessage); // "Error de red - Verifique su conexión a internet"
}
```

Complete Example



typescript

```
import { fetchErrorTranslator } from '@wbindabla/form_validator';

async function fetchData(url: string) {
  try {
    const controller = new AbortController();
    const timeoutId = setTimeout(() => controller.abort(), 5000);

    const response = await fetch(url, {
      signal: controller.signal
    });

    clearTimeout(timeoutId);

    if (!response.ok) {
      throw new Error(`HTTP ${response.status}`);
    }

    return await response.json();

  } catch (error) {
    // Translate error
    const userMessage = fetchErrorTranslator.translate(
      error.name,
      error
    );

    // Show to user
    alert(userMessage);

    // Log original error for debugging
    console.error('Original error:', error);

    throw error;
  }
}
```

Why FetchErrorTranslator?

✖ Without FetchErrorTranslator



typescript

```
try {  
  await fetch('/api/data');  
} catch (error) {  
  console.error(error.message);  
  // "Failed to fetch" - Not helpful for users!  
  // "NetworkError" - Technical jargon  
  // "TypeError" - Meaningless to end users  
}
```

✔ With FetchErrorTranslator



typescript

```
try {  
  await fetch('/api/data');  
} catch (error) {  
  const message = fetchErrorTranslator.translate(error.name, error);  
  console.error(message);  
  // "Network error - Check your internet connection" - Clear and actionable!  
}
```

🔑 Key Features

- ✔ **User-Friendly Messages** - Convert technical errors to plain language
- ✔ **Multi-Language Support** - Built-in support for en, fr, es (extensible)
- ✔ **Intelligent Matching** - Pattern matching for unknown errors
- ✔ **Caching** - Configurable cache adapters for performance
- ✔ **Type-Safe** - Full TypeScript support
- ✔ **Zero Dependencies** - Only requires the cache adapter module
- ✔ **Extensible** - Easy to add new languages and error types
- ✔ **Production Ready** - Battle-tested in enterprise applications

How It Works

Translation Process



1. Error occurs in `fetch()`
↓
2. Call `translate(error.name, error)`
↓
3. Try exact match for `error.name`
 - └─ MATCH → Return translation
 - └─ NO MATCH → Pattern matching
 - └─ Check keywords in `error.message`
 - └─ Check SSL/TLS patterns
 - └─ Return fallback message

Example Flow



typescript

```
// 1. Network error occurs
fetch('/api/data') // → TypeError: Failed to fetch

// 2. Translate the error
const message = fetchErrorTranslator.translate('TypeError', error);

// 3. Exact match found
// Returns: "Network error - Check your internet connection"

// 4. If no exact match, pattern matching kicks in
// Checks error.message for keywords: 'network', 'failed to fetch', etc.
// Returns appropriate translation
```

Error Pattern Matching

How Pattern Matching Works

When an exact error name match isn't found, the translator analyzes the error message for keywords:



typescript

```
const patterns = [
  {
    keywords: ['network', 'failed to fetch'],
    errorKey: 'NetworkError'
  },
  {
    keywords: ['timeout', 'abort'],
    errorKey: 'AbortError'
  },
  {
    keywords: ['cors'],
    errorKey: 'SecurityError'
  },
  {
    keywords: ['dns', 'not found'],
    errorKey: 'NotFoundError'
  }
];
```

Example



typescript

```
// Error with unclear name
const error = new Error('Failed to fetch due to network issues');
error.name = 'UnknownError';

// Pattern matching finds 'network' and 'failed to fetch'
const message = fetchErrorTranslator.translate(error.name, error);
// Returns: "Network error - Check your internet connection"
```

Supported Languages

Built-in Languages

Language Code		Example Message
English	en	"Network error - Check your internet connection"
French	fr	"Erreur réseau - Vérifiez votre connexion internet"
Spanish	es	"Error de red - Verifique su conexión a internet"

Adding More Languages



typescript

```
// Add German translations
fetchErrorTranslator.addTranslations('de', {
  'AbortError': 'Anfrage hat Zeitüberschreitung überschritten',
  'TypeError': 'Netzwerkfehler - Überprüfen Sie Ihre Internetverbindung',
  'NetworkError': 'Netzwerkfehler - Verbindung unmöglich',
  'SecurityError': 'Sicherheitsfehler - Zugriff verweigert (CORS)'
});

// Add Italian translations
fetchErrorTranslator.addTranslations('it', {
  'AbortError': 'Richiesta scaduta',
  'TypeError': 'Errore di rete - Controlla la tua connessione internet',
  'NetworkError': 'Errore di rete - Connessione impossibile'
});
```

API Documentation

FetchErrorTranslator Class

Main class for error translation.

Constructor

Creates a new FetchErrorTranslator instance.



typescript

```
constructor(config?: FetchErrorTranslatorConfig)
```

Configuration Options:



typescript


```
interface FetchErrorTranslatorConfig {
  defaultLanguage?: string;           // Default: 'en'
  cacheAdapter?: CacheTranslationInterface; // Default: LocalStorage
  debug?: boolean;                   // Default: false
  customPatterns?: ErrorPattern[];    // Additional patterns
  additionalTranslations?: ErrorTranslations; // Extra translations
}
```

Examples:



typescript

// Default configuration

```
const translator = new FetchErrorTranslator();
```

// Custom configuration

```
const translator = new FetchErrorTranslator({
  defaultLanguage: 'fr',
  debug: true
});
```

// With custom patterns

```
const translator = new FetchErrorTranslator({
  customPatterns: [
    {
      keywords: ['gateway', '502', '503'],
      errorKey: 'ServerError'
    }
  ],
  additionalTranslations: {
    en: {
      'ServerError': 'Server is temporarily unavailable'
    },
    fr: {
      'ServerError': 'Le serveur est temporairement indisponible'
    }
  }
});
```

translate()

Translates an error name to a user-friendly message.



typescript

```
translate(  
  errorName: string,  
  error?: Error | null,  
  language?: string  
): string
```

Parameters:

Parameter	Type	Required	Description
errorName	string	✔ Yes	Error name (e.g., 'AbortError')
error	Error null	✘ No	Error object for pattern matching
language	string	✘ No	Language code (uses current if not specified)

Returns: string - Translated error message

Examples:



typescript

// Simple translation

```
const message = fetchErrorTranslator.translate('NetworkError');
console.log(message); // "Network error - Connection impossible"
```

// With error object for pattern matching

```
try {
  await fetch('/api/data');
} catch (error) {
  const message = fetchErrorTranslator.translate(error.name, error);
  alert(message);
}
```

// With specific language

```
const frenchMessage = fetchErrorTranslator.translate('AbortError', null, 'fr');
console.log(frenchMessage); // "La requête a expiré..."
```

// Complete example

```
async function handleFetch(url: string) {
  try {
    const response = await fetch(url);
    return await response.json();
  } catch (error) {
    const userMessage = fetchErrorTranslator.translate(
      error.name,
      error,
      document.documentElement.lang
    );

    // Show user-friendly message
    showErrorToast(userMessage);

    // Log technical details for debugging
    console.error('Fetch error:', error);

    throw error;
  }
}
```

addTranslations()

Adds or extends translations for a language.



typescript

```
addTranslations(language: string, translations: TranslationMessages): void
```

Parameters:

Parameter	Type	Description
language	string	Language code (e.g., 'de', 'it')
translations	TranslationMessages	Error name to message mappings

Examples:



typescript

```
// Add German translations
fetchErrorTranslator.addTranslations('de', {
  'AbortError': 'Anfrage hat Zeitüberschreitung überschritten',
  'TypeError': 'Netzwerkfehler - Überprüfen Sie Ihre Internetverbindung',
  'NetworkError': 'Netzwerkfehler - Verbindung unmöglich',
  'SecurityError': 'Sicherheitsfehler - Zugriff verweigert (CORS)',
  'NotFoundError': 'Ressource nicht gefunden',
  'TimeoutError': 'Zeitüberschreitung',
  'InvalidStateError': 'Ungültige Anfrage - Ungültiger Status',
  'SyntaxError': 'Syntaxfehler in der Antwort',
  'ReferenceError': 'Referenzfehler',
  'RangeError': 'Wert außerhalb des Bereichs'
});

// Extend existing English translations
fetchErrorTranslator.addTranslations('en', {
  'CustomError': 'A custom error occurred',
  'ValidationError': 'Validation failed - Please check your input'
});

// Add Italian translations
fetchErrorTranslator.addTranslations('it', {
  'AbortError': 'Richiesta scaduta',
  'TypeError': 'Errore di rete',
  'NetworkError': 'Errore di rete - Connessione impossibile'
});
```

getSupportedLanguages()

Gets all supported language codes.



typescript

```
getSupportedLanguages(): string[]
```

Returns: string[] - Array of language codes

Example:



typescript

```
const languages = fetchErrorTranslator.getSupportedLanguages();
console.log(languages); // ['en', 'fr', 'es', 'de']

// Use in language selector
const languageOptions = fetchErrorTranslator.getSupportedLanguages().map(lang => ({
  value: lang,
  label: getLanguageName(lang)
}));
```

getSupportedErrorNames()

Gets all supported error names for a language.



typescript

```
getSupportedErrorNames(language?: string): string[]
```

Parameters:

Parameter	Type	Description
language	string	Optional language code (uses current if not specified)

Returns: string[] - Array of error names

Example:



typescript

```
// Get error names for current language
const errorNames = fetchErrorTranslator.getSupportedErrorNames();
console.log(errorNames);
// ['AbortError', 'TypeError', 'NetworkError', 'SecurityError', ...]

// Get error names for specific language
const frenchErrors = fetchErrorTranslator.getSupportedErrorNames('fr');
console.log(frenchErrors);

// Debugging: Check if error type is supported
if (fetchErrorTranslator.getSupportedErrorNames().includes('CustomError')) {
    console.log('CustomError is supported');
}
```

hasTranslationFor()

Checks if a translation exists for an error name.



typescript

```
hasTranslationFor(errorName: string, language?: string): boolean
```

Parameters:

Parameter	Type	Description
errorName	string	Error name to check
language	string	Optional language code

Returns: boolean - true if translation exists

Example:



typescript

```
// Check if translation exists
if (fetchErrorTranslator.hasTranslationFor('AbortError')) {
    console.log('Translation available');
}

// Check for specific language
if (fetchErrorTranslator.hasTranslationFor('CustomError', 'fr')) {
    const message = fetchErrorTranslator.translate('CustomError', null, 'fr');
} else {
    console.warn('French translation not available for CustomError');
}

// Conditional translation
function getErrorMessage(errorName: string): string {
    if (fetchErrorTranslator.hasTranslationFor(errorName)) {
        return fetchErrorTranslator.translate(errorName);
    } else {
        return `An error occurred: ${errorName}`;
    }
}
```

exportTranslations()

Exports all translations for a language.



typescript

```
exportTranslations(language: string): TranslationMessages
```

Parameters:

Parameter	Type	Description
language	string	Language code to export

Returns: TranslationMessages - Object with error name/message pairs

Example:



typescript

// Export English translations

```
const enTranslations = fetchErrorTranslator.exportTranslations('en');  
console.log(JSON.stringify(enTranslations, null, 2));
```

// Save to file

```
const json = JSON.stringify(enTranslations, null, 2);  
downloadFile('error-translations-en.json', json);
```

// Send to server for backup

```
await fetch('/api/translations/backup', {  
  method: 'POST',  
  body: JSON.stringify({  
    language: 'en',  
    translations: fetchErrorTranslator.exportTranslations('en')  
  })  
});
```

// Debugging

```
console.table(fetchErrorTranslator.exportTranslations('fr'));
```

clearCache()

Clears all cached translations.



typescript

```
async clearCache(): Promise<void>
```

Example:



typescript

// Clear cache manually

```
await fetchErrorTranslator.clearCache();  
console.log('Cache cleared');
```

// Clear cache on app version change

```
const APP_VERSION = '2.0.0';  
const cachedVersion = localStorage.getItem('app_version');
```

```
if (cachedVersion !== APP_VERSION) {  
  await fetchErrorTranslator.clearCache();  
  localStorage.setItem('app_version', APP_VERSION);  
}
```

// Clear cache button

```
async function handleClearCache() {  
  await fetchErrorTranslator.clearCache();  
  alert('Translation cache cleared!');  
}
```

getCurrentLanguage()

Gets the current language code.



typescript

```
getCurrentLanguage(): string
```

Returns: string - Current language code

Example:



typescript

```
const lang = fetchErrorTranslator.getCurrentLanguage();
console.log(lang); // "en"

// Use in UI
document.getElementById('current-lang').textContent =
  `Language: ${fetchErrorTranslator.getCurrentLanguage()}`;

// Conditional logic
if (fetchErrorTranslator.getCurrentLanguage() === 'fr') {
  // French-specific handling
}
```

preload()

Preloads translations for a language.



typescript

```
async preload(language: string): Promise<void>
```

Parameters:

Parameter	Type	Description
language	string	Language code to preload

Example:



typescript

// Preload at app startup

```
async function initApp() {  
    await fetchErrorTranslator.preload('en');  
    await fetchErrorTranslator.preload('fr');  
    console.log("Translations preloaded");  
}
```

// Preload on language change

```
async function changeLanguage(lang: string) {  
    await fetchErrorTranslator.preload(lang);  
    // Now translations are instant  
}
```

configAdapter

Gets or sets the cache adapter.



typescript

// Getter

```
get configAdapter(): CacheTranslationInterface
```

// Setter

```
set configAdapter(adapter: CacheTranslationInterface)
```

Example:



typescript

// Get current adapter

```
const adapter = fetchErrorTranslator.configAdapter;  
console.log(adapter.constructor.name);
```

// Set custom adapter

```
import { DexieCacheAdapter } from './adapters';  
fetchErrorTranslator.configAdapter = new DexieCacheAdapter();
```

// Conditional adapter

```
if (supportsIndexedDB()) {  
  fetchErrorTranslator.configAdapter = new DexieCacheAdapter();  
} else {  
  fetchErrorTranslator.configAdapter = new LocalStorageCacheTranslationAdapter();  
}
```

Configuration Options

Complete Configuration Example



typescript

```
import { FetchErrorTranslator } from '@wlandabla/form_validator';

const translator = new FetchErrorTranslator({
  // Default language
  defaultLanguage: 'fr',

  // Enable debug logging
  debug: process.env.NODE_ENV === 'development',

  // Custom cache adapter
  cacheAdapter: new CustomCacheAdapter(),

  // Custom error patterns
  customPatterns: [
    {
      keywords: ['gateway', '502', '503'],
      errorKey: 'ServerError'
    },
    {
      keywords: ['rate limit', '429'],
      errorKey: 'RateLimitError'
    }
  ],

  // Additional translations
  additionalTranslations: {
    en: {
      'ServerError': 'Server is temporarily unavailable',
      'RateLimitError': 'Too many requests - Please wait'
    },
    fr: {
      'ServerError': 'Le serveur est temporairement indisponible',
      'RateLimitError': 'Trop de requêtes - Veuillez patienter'
    }
  }
});
```

Custom Error Patterns

Adding Custom Patterns



```
const translator = new FetchErrorTranslator({
  customPatterns: [
    // API-specific errors
    {
      keywords: ['api key', 'unauthorized', '401'],
      errorKey: 'AuthError'
    },
    // Server errors
    {
      keywords: ['internal server', '500'],
      errorKey: 'ServerError'
    },
    // Database errors
    {
      keywords: ['database', 'connection refused'],
      errorKey: 'DatabaseError'
    }
  ],
  additionalTranslations: {
    en: {
      'AuthError': 'Authentication failed - Please log in again',
      'ServerError': 'Server error - Please try again later',
      'DatabaseError': 'Database connection error'
    }
  }
});
```

Custom Cache Adapters

Creating a Custom Adapter



```
import { CacheTranslationInterface, TranslationMessages } from '@wlandabla/form_validator';
```

```
class CustomCacheAdapter implements CacheTranslationInterface {  
  async getItem(key: string): Promise<TranslationMessages | null> {  
    // Your implementation  
    return null;  
  }  
  
  async setItem(key: string, messages: TranslationMessages): Promise<void> {  
    // Your implementation  
  }  
  
  async clear(): Promise<void> {  
    // Your implementation  
  }  
}
```

```
// Use custom adapter
```

```
fetchErrorTranslator.configAdapter = new CustomCacheAdapter();
```

Adding New Languages

Complete Language Addition



typescript

```
// Add Portuguese
```

```
fetchErrorTranslator.addTranslations('pt', {  
  'AbortError': 'A solicitação expirou',  
  'TypeError': 'Erro de rede - Verifique sua conexão com a internet',  
  'NetworkError': 'Erro de rede - Conexão impossível',  
  'SecurityError': 'Erro de segurança - Acesso negado (CORS)',  
  'NotFoundError': 'Recurso não encontrado',  
  'TimeoutError': 'Tempo limite excedido',  
  'InvalidStateError': 'Solicitação inválida',  
  'SyntaxError': 'Erro de sintaxe na resposta',  
  'ReferenceError': 'Erro de referência',  
  'RangeError': 'Valor fora do intervalo'  
});
```

```
// Verify
```

```
console.log(fetchErrorTranslator.getSupportedLanguages());  
// ['en', 'fr', 'es', 'pt']
```

Integration Guides

Basic Fetch Integration



typescript


```
import { fetchErrorTranslator } from '@wbindabla/form_validator';

async function apiCall(url: string) {
  try {
    const response = await fetch(url);

    if (!response.ok) {
      throw new Error(`HTTP ${response.status}`);
    }

    return await response.json();

  } catch (error) {
    // Translate error
    const userMessage = fetchErrorTranslator.translate(error.name, error);

    // Show to user
    showNotification(userMessage, 'error');

    // Rethrow for caller handling
    throw error;
  }
}
```

Axios Integration



typescript

```
import axios from 'axios';  
import { fetchErrorTranslator } from '@wlandabla/form_validator';
```

```
// Add response interceptor
```

```
axios.interceptors.response.use(  
  response => response,  
  error => {  
    // Translate error  
    const message = fetchErrorTranslator.translate(  
      error.name || 'NetworkError',  
      error  
    );
```

```
// Show to user
```

```
toast.error(message);
```

```
return Promise.reject(error);
```

```
}
```

```
);
```

React Integration



typescript

```

import React, { useState } from 'react';
import { fetchErrorTranslator } from '@wbindabla/form_validator';

function DataFetcher() {
  const [error, setError] = useState<string | null>(null);
  const [data, setData] = useState(null);

  const fetchData = async () => {
    try {
      const response = await fetch('/api/data');
      const json = await response.json();
      setData(json);
      setError(null);
    } catch (err) {
      const errorMessage = fetchErrorTranslator.translate(
        err.name,
        err
      );
      setError(errorMessage);
    }
  };

  return (
    <div>
      {error && (
        <div className="alert alert-danger">
          {error}
        </div>
      )}
      <button onClick={fetchData}>Fetch Data</button>
    </div>
  );
}

```

Vue.js Integration



vue

```
<template>
  <div>
    <div v-if="error" class="alert alert-danger">
      {{ error }}
    </div>
    <button @click="fetchData">Fetch Data</button>
  </div>
</template>

<script setup lang="ts">
import { ref } from 'vue';
import { fetchErrorTranslator } from '@wlandabla/form_validator';

const error = ref<string | null>(null);

const fetchData = async () => {
  try {
    const response = await fetch('/api/data');
    const data = await response.json();
    error.value = null;
  } catch (err) {
    error.value = fetchErrorTranslator.translate(err.name, err);
  }
};
</script>
```

Default Error Messages

English (en)

Error Name	Message
AbortError	"Request timed out because the server did not respond within the specified time."
TypeError	"Network error - Check your internet connection"
NetworkError	"Network error - Connection impossible"
SecurityError	"Security error - Access denied (CORS)"
NotFoundError	"Resource not found"
TimeoutError	"Request timeout"
InvalidStateError	"Invalid request - Invalid state"
SyntaxError	"Syntax error in response"
ReferenceError	"Reference error"
RangeError	"Value out of range"

French (fr)

Error Name	Message
AbortError	"La requête a expiré car le serveur n'a pas répondu dans le délai imparti."
TypeError	"Erreur réseau - Vérifiez votre connexion internet"
NetworkError	"Erreur réseau - Connexion impossible"
SecurityError	"Erreur de sécurité - Accès non autorisé (CORS)"

Spanish (es)

Error Name	Message
AbortError	"Tiempo de espera agotado - El servidor no respondió a tiempo"
TypeError	"Error de red - Verifique su conexión a internet"
NetworkError	"Error de red - Conexión imposible"
SecurityError	"Error de seguridad - Acceso denegado (CORS)"

TypeScript Types



typescript

```
// Error translations
type ErrorTranslations = Record<string, TranslationMessages>;
type TranslationMessages = Record<string, string>;
```

```
// Error pattern
interface ErrorPattern {
  keywords: string[];
  errorKey: string;
}
```

```
// Configuration
interface FetchErrorTranslatorConfig {
  defaultLanguage?: string;
  cacheAdapter?: CacheTranslationInterface;
  debug?: boolean;
  customPatterns?: ErrorPattern[];
  additionalTranslations?: ErrorTranslations;
}
```

Best Practices

1. Always Pass Error Object



typescript

```
// ✔ Good - Enables pattern matching
const message = fetchErrorTranslator.translate(error.name, error);

// ✘ Less ideal - No pattern matching
const message = fetchErrorTranslator.translate(error.name);
```

2. Show User-Friendly Messages, Log Technical Details



typescript

```
try {
  await fetch('/api/data');
} catch (error) {
  // For users
  const userMessage = fetchErrorTranslator.translate(error.name, error);
  toast.error(userMessage);

  // For developers
  console.error("Technical details:", {
    name: error.name,
    message: error.message,
    stack: error.stack
  });
}
```

3. Use Language from Document



typescript

```
const message = fetchErrorTranslator.translate(  
  error.name,  
  error,  
  document.documentElement.lang // Use HTML lang attribute  
);
```

4. Preload Translations



typescript

```
// Preload at app startup  
await fetchErrorTranslator.preload('en');  
await fetchErrorTranslator.preload('fr');
```

Troubleshooting

Issue: Translation returns fallback message

Problem: Generic "An unknown error occurred" message

Solution:



typescript

```
// Check if error name is supported  
const errorNames = fetchErrorTranslator.getSupportedErrorNames();  
console.log('Supported errors:', errorNames);  
  
// Add translation if missing  
if (!errorNames.includes('CustomError')) {  
  fetchErrorTranslator.addTranslations('en', {  
    'CustomError': 'Custom error message'  
  });  
}
```

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Credits

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