

Open Source Technologies in Intega HR

This page provides an overview of the open source technologies used in the Intega HR solution by Intega A/S. It is intended for technical stakeholders – such as integration partners, vendors, or customers with in-house development – who need insight into the technology stack behind the system.

Frontend Technologies

Technology	Purpose	Platform	Usage
Angular	Frontend Framework	TypeScript/JavaScript	Core framework v10.2.5 Used for main application structure Files: AngularApp/package.json, AngularApp/src/app/app.module.ts, angular.json Search: GitHub Search
Angular Material	UI Components	TypeScript	Material Design components v10.2.7 Used for UI components throughout app Files: AngularApp/package.json, component imports in .ts files Search: GitHub Search
jQuery	JavaScript Library	JavaScript	DOM manipulation v3.6.0 Used extensively in WebApp Files: WebApp/Scripts/jquery-.js, WebApp master pages, packages.config entries *Search: GitHub Search
Bootstrap	CSS Framework	CSS/JavaScript	Responsive framework v3.4.1 Used for responsive design Files: WebApp/Content/bootstrap.css, WebApp/Scripts/bootstrap.js, master pages Search: GitHub Search
Chart.js	Data Visualization	JavaScript	Charting library v2.8.0 Used for data visualization Files: AngularApp/package.json, chart components in Angular app Search: GitHub Search

TinyMCE	Rich Text Editor	JavaScript	WYSIWYG editor v5.0.11 Used for rich text editing Files: WebApp/Scripts/tinymce/, AngularApp configuration, editor components Search: GitHub Search
Moment.js	Date/Time Library	JavaScript	Date manipulation v2.27.0 Used for date handling Files: AngularApp/package.json, date service components Search: GitHub Search
RxJS	Reactive Programming	TypeScript	Observable streams v6.6.7 Used with Angular for reactive programming Files: AngularApp services, HTTP clients, observable patterns Search: GitHub Search
PrimeNG	UI Components	TypeScript	Angular UI components v10.0.3 Used for advanced UI components Files: AngularApp/package.json, component imports in Angular modules Search: GitHub Search
Font Awesome	Icon Library	CSS	Icon fonts v4.7.0 Used for icons throughout application Files: WebApp/Content/font-awesome.css, icon references in templates Search: GitHub Search
LESS	CSS Preprocessor	CSS	CSS compilation Used for CSS preprocessing Files: .less files in WebApp, LESS compilation in build process Search: GitHub Search
ExcelJS	Excel Library	JavaScript	Excel file manipulation v2.0.1 Used for Excel export/import Files: AngularApp/package.json,

			Excel service implementations Search: GitHub Search
Papaparse	CSV Parser	JavaScript	CSV parsing v5.0.0 Used for CSV file processing Files: AngularApp/package.json, CSV import/export services Search: GitHub Search

Backend Technologies

Technology	Purpose	Platform	Usage
Entity Framework	ORM	C#	Data access v6.1.3 Used for ORM/data access Files: .edmx files, .tt templates, connection strings in config files Package: <code><package id="EntityFramework" version="6.1.3" targetFramework="net451" /></code> Search: GitHub Search
Serilog	Logging	C#	Structured logging v2.7.1 Used for structured logging Files: packages.config entries, logging configuration in appsettings, log service implementations Search: GitHub Search
log4net	Logging	C#	Logging framework v2.0.3 Used for application logging Files: log4net.config files, logging wrappers Package: <code><package id="log4net" version="2.0.3" targetFramework="net451" /></code> Search: GitHub Search
NLog	Logging	C#	Logging platform Used throughout application Files: logging wrapper classes, NLog

			<p>configuration in Web..config files</p> <p>*Package: <code><package id="NLog" version="4.5.11" targetFramework="net451" /></code></p> <p>Search: GitHub Search</p>
Newtonsoft.Json	JSON Serializat ion	C#	<p>JSON framework v12.0.2</p> <p>Used for JSON serialization</p> <p>Files: packages.config entries, API controllers, JSON handling in services</p> <p>Search: GitHub Search</p>
RestSharp	HTTP Client	C#	<p>REST API client v105.2.3</p> <p>Used for external API calls</p> <p>Files: packages.config entries, HTTP service implementations, API integration classes</p> <p>Search: GitHub Search</p>
HtmlAgilityPack	HTML Parser	C#	<p>HTML manipulation v1.11.51</p> <p>Used for HTML parsing</p> <p>Files: packages.config entries, HTML processing services, web scraping utilities</p> <p>Search: GitHub Search</p>
QRCode	QR Code Generato r	C#	<p>QR code generation v1.4.2</p> <p>Used for QR code generation</p> <p>Files: packages.config entries, QR code service implementations</p> <p>Search: GitHub Search</p>
Ical.Net	Calendar Library	C#	<p>iCalendar support v2.3.6</p> <p>Used for calendar functionality</p> <p>Files: packages.config entries, calendar service implementations, iCal export features</p> <p>Search: GitHub Search</p>

Testing & Documentation

Technology	Purpose	Platform	Usage
MSTest	Testing Framework	C#	Unit testing v1.3.2 Used for unit testing Files: test project packages.config, Search: GitHub Search
NUnit	Testing Framework	C#	Unit testing v2.5.10 Used for unit testing Files: test project packages.config, attributes, NUnit test runners Search: GitHub Search
Swagger/OpenAPI	API Documentation	Multiple	API client generation Used for API documentation and client generation Files: IO.Swagger project, generated API clients, swagger.json files Search: GitHub Search

Total Open Source Technologies: 25 major packages across frontend, backend, testing, and utility functions.

License Types: Primarily MIT, Apache 2.0, and BSD licenses allowing free commercial use.

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