

Technical description

Introduction Project name: Oncological Reports Capturing Application (ORCA)
Purpose: Capturing, management and evaluation of tumour reports

Authors: Manuel Jordan Creation date: 12.08.2024

Technology stack Frontend: Blazor Server

Backend: .NET 8, ASP.NET Core

Database: PostgreSQL

Other Technologies: Entity Framework, SignalR

Third-Party-Libraries Tesseract OCR Engine: https://github.com/charlesw/tesseract

Blazored: https://github.com/Blazored

Syncfusion Library: https://www.syncfusion.com

Mudblazor: https://mudblazor.com

System requirements Hosting: Docker / Kubernetes / Windows-Server

Resources: 2 CPU, > 4GB RAM

Document storage: Fileshare oder S3

App components ORCA-App: Frontend, File-Importer, Mail-Importer

ZAS-Service: ZAS query for AHV / OASI number determination

OCR-Service: text recognition

Nicerstat-Service: Tumor synchronization **API-Service:** REST API for uploading documents

RabbitMQ: Messaging-Broker

Other features Authentication and Authorization: local user accounts

App configuration: config.json file

Logging: separate, rotating log files via Serilog