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 2023年12月15日 星期五 14:00:00

React 18 Vite Shadcn/ui Tailwind CSS  Live



## ■■ BACKEND LAYER (■■■■)



### .NET Backend API

URL:

<https://low-back-pain-backend.onrender.com>

Swagger API:

</swagger>

■■■■: Render (Web Service - Docker)

■■■■: ASP.NET Core 7.0 + ABP vNext 7.3

[ASP.NET Core 7.0](#) [ABP vNext 7.3](#) [Entity Framework](#) ■ Live



## ■ DATABASE LAYER (■■■■)



### PostgreSQL Database

■■■■: Render (PostgreSQL Service)

■■■■: LowBackPainDB

■■: ■■■■■■■■

■■: ■■■■ (Render)

[PostgreSQL 15](#) [Relational DB](#) ■ Live



## ■ PYTHON SERVICES LAYER (Python■■■■)



OCR Service

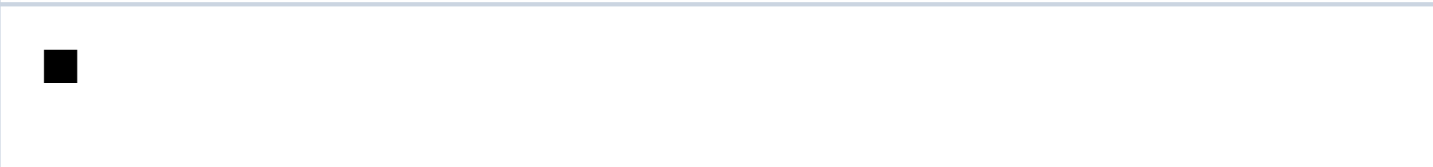
URL:  
<https://lowbackpain-ocr-service.onrender.com>

Health:  
</health>

OCR: Tesseract 5.5.0

Version: 1.0.0

Python 3.10 Flask Tesseract OCR OpenCV Live



MediaPipe Service

URL:  
<https://lowbackpain-mediapipe-service.onrender.com>

Health:  
</health>

MediaPipe Pose (Complexity 2)

Version: 33.0.0

Python 3.10 Flask MediaPipe 0.10.18 OpenCV Live

GitHub

```
low-back-pain-system/ .git/ .specify/ # (19MD) _archive/ # demo/ old-backend/ old-docs/ old-frontend/ old-scripts/ reference-materials/ test-data/ # (NEW) images/test_images/ # 6 temp/ # backend-dotnet/ # .NET aspNet-core/ Dockerfile README.md docs/ # architecture/ reports/ # (NEW) architecture_report.html status-report.html swagger-ui-screenshot.png README.md python-services/ # Python (OCR & MediaPipe) mediapipe-service/ Dockerfile pose_service.py requirements_pose.txt ocr-service/ Dockerfile ocr_service.py requirements_ocr.txt reference/ # PDF scripts/ # data-generation/ setup/ testing/ # (REORGANIZED) backend/ test-db.ps1 test-postgres-passwords.ps1 frontend/ # capture-swagger.js test-system.cjs test_mediapipe.py src/ # api/ components/ contexts/ AuthContext.jsx # ExternalContext.jsx # pages/ App.jsx # (16) .env.development .env.local .env.production .gitignore package.json vite.config.js ...
```

				URL
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React Frontend	■■■■■	Render Static Site	■■■	■■
.NET Backend	RESTful API	Render Web Service	■■■	■■
PostgreSQL	■■■■■■■	Render PostgreSQL	■■■	■■■■■
OCR Service	Python■■■	Render Web Service	■■■	■■
MediaPipe Service	Python■■■	Render Web Service	■■■	■■

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[React 18](#) [Vite](#) [React Router](#) [Tailwind CSS](#) [Shadcn/ui](#) [Lucide Icons](#)

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[ASP.NET Core 7.0](#) [ABP vNext 7.3](#) [Entity Framework](#) [AutoMapper](#) [Swagger/OpenAPI](#)

AI/ML■■■

[Python 3.10](#) [Flask](#) [Tesseract OCR](#) [MediaPipe](#) [OpenCV](#) [NumPy](#)

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[Docker](#) [PostgreSQL 15](#) [Render Cloud](#) [GitHub](#) [Git](#)

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Render (Free Tier)

PythonDocker

GitHub

512MB RAM, GPU, 15

TesseractPaddleOCR (CPU), MediaPipe

(VITE\_DISABLE\_AUTH=true)

URL (workspace\_id, doctor\_id)