Report

Introduction

The CardioBot project is part of a final first year project to obtain the RNCP5 Web and Mobile Web Developer title. This innovative initiative is developed for the office of Dr. TZEVTKOV, in collaboration with ICP Conseil.

Section 1: Project Context and Vision

- End of year student project presented in July 2025
- Solution developed for a real use case in a medical office
- Multidisciplinary collaboration with specializations in:
    - Fullstack development
    - Cybersecurity
    - Artificial intelligence

Section 2: Main Objectives

- Simplification Administrative
    - Automation of appointments via Doctolib
    - Automatic reminder and confirmation system
    - Reduction of administrative burden
- Improved Patient Experience
    - Personalized tracking
    - Smart recommendations
    - Optimized management of waiting times
- Compliance and Security
    - Strict compliance with GDPR
    - Protection of sensitive data
    - Double authentication via FranceConnect

Section 3: Technologies et Innovation

- Modern Technical Stack
  - Backend : Django, PostgreSQL, Celery
  - Frontend : React
  - IA : IBM Watsonx ai Studio
  - Security: FranceConnect, GDPR

To summarize:

CardioBot represents an innovative solution that meets concrete needs in the medical sector. The project combines technical expertise, data security and artificial intelligence to create a powerful virtual assistant that will significantly improve the daily management of a cardiology practice while providing a better patient experience.