# TeleMediCare: a telemedicine platform designed for virtual care in NT

# Abstract

In the Northern Territory (NT), the ratio of General Practitioners to the population is 94 per 100,000 people, while Queensland boasts a higher ratio of 125.4. The NT faces critical health challenges, including the highest premature death rate, a growing prevalence of chronic illnesses, and 40% of its residents residing in remote or very remote areas, which hinder access to healthcare services. Virtual Care can help meet the need of Territorians by optimising access and quality of consumer care. Its implementation has the potential to yield significant benefits, with estimated annual travel cost savings exceeding $6.3 million, in addition to reduced cancellation expenses and enhanced healthcare accessibility. Enter TeleMediCare: a telemedicine platform designed for virtual care. The platform utilizes advanced technology to offer a secure and seamless online consultation experience, connecting patients with licensed healthcare professionals.

# Feature List

1. *Patient healthcare profiles:* Patients can create accounts on the platform, providing necessary personal information and medical history.
2. *Appointment Scheduling:* Patients can schedule virtual appointments with healthcare providers based on their availability and specialty.
3. *Virtual Consultations:* Patients can initiate and participate in secure video consultations with healthcare providers through the platform.
4. *Medical records access:* Patients can access their electronic health records, including past consultations, prescriptions, and medical test results.
5. *Prescription and referral management:* Patients can receive electronic prescriptions and referrals through the platform for medications or further medical care.
6. *Secure communication:* Patients have a secure messaging system to communicate with healthcare providers for follow-up questions or non-urgent inquiries.

# Technologies Used

Database: SQL Server and SQL Server Management Studio (SSMS)

Backend: .NET 7

Frontend: Angular 16

API Testing: Postman

Version Control: GitHub

Integrated Development Environments (IDE): Visual Studio and Visual Studio Code

# Resources

NT Health Virtual Care Strategy pdf; <https://health.nt.gov.au/__data/assets/pdf_file/0016/1035223/nt-health-virtual-care-strategy.pdf>