

COMP39/9900 Computer Science/IT Capstone Project
School of Computer Science and Engineering, UNSW
Course Convenor: Dr. Basem Suleiman(b.suleiman@unsw.edu.au)

Project Number: 58

Project Title: Virtual Specialist Veterinary Service Platform

Project Clients: Avril Lim

Project specializations: Web Application Development; Mobile Application Development; Artificial Intelligence (Machine/Deep Learning, NLP); Human Computer Interaction (HCI); Internet of Things (IoTs)

Number of groups: 3 groups

Main contact: info@smartvethospital.com.au

Notice: External client requires all participants in this project to sign an IP agreement before starting the project officially.

Background:

Virtual Vet Specialist is a new startup aiming to provide virtual specialist veterinary consultations. With the growing need for accessible specialist care, especially in remote areas, this platform aims to bridge the gap by providing an end-to-end virtual consultation experience. The founder, Dr. Avril Lim, a veterinary internal medicine specialist herself, is revolutionise the industry and building a hospital without walls.

Project Goals:

Project 1

Students are to develop a web-based platform that allows pet owners to schedule virtual consultations with veterinary specialists.

Outputs:

- A user-friendly platform interface for scheduling and managing virtual consultations. ; Integration with video call systems (e.g., Zoom, Google Meet).
- A backend system for managing vet schedules, patient history, and consultation records.

Project 2

Students are to build an AI-based tool for initial triage and gathering patient history and details.

Outputs:

- A smart triage chatbot that guides users through initial triage and gathering patient history and details. An AI system that integrates with the platform in project 1.

Project 3

Students are to build a smart harness that can monitor the post-procedure vitalities of dogs/cats - the data gathered from the smart harness should be fed into the back end of platform in project 1 - to provide information for the specialist vet.

Requirements and Scope:

The students are free to use their software of preference to code

The only requirement is that the output should integrate with no code tools such

Airtable, Calendly, Typeform, Bubble to support the startup maintaining the platform later down the track.

Assistance can be provided to students choosing to use watson X (IBM)

Required Knowledge and skills:

Accountability

Technical know how/ Interest

Ability to work collaboratively/delegate internally

Expected outcomes/deliverables:

A working platform/AI tool that can be integrated, modified and scalable

Supervision:

Avril Lim