

**Deakin University** 

**HIVE AI** 

## **Project Scope**

Project Sponsor Company/Department, Name

**Project Team** 

Team A

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## **Motivation / Problem Description**

Why is there a need for AI enhanced teleconsulting?

- Clinics can be crowded
  - Crowded Doctors clinics which don't have a booking policy and is first in first serve with long waiting times
  - Sometimes
  - Often new parents who are overly worried will take children in for the smallest of ailments taking up appointment times better served to patients that need care
- Remote access
  - o Residential location is remote and prohibitive or difficult to access health care
  - Expensive to travel to clinic
- Non-medical ailments often fill up bookings when more urgent/medical issues may miss out or prolonged

#### Project Vision

- To give patients access to healthcare which they may not necessarily be able to access easily due to remote location
- Ease the burden of waiting rooms for unnecessary consultation
- Give accurate and consistent triage and diagnosis of minor ailments and referrals for major ailments.
- Increase uptake of telehealth by working with clinics and small groups of doctors

#### Why HIVE AI enhanced teleconsulting?

- Current solutions both internal and Australian offer a platform where
  - Patients are screened by the chat bot or by a contact centre staff who will then book an appointment and the patient is assigned a doctor from a pool of doctors
  - Health Now in Australia provide a phone service
- With Hive AI enhanced teleconsulting, a doctor or a clinic of doctors can utilise the platform to:
  - o better service their current patient list
  - increase patient list
  - o reduce waiting time
  - o reduce cost to their patients for unnecessary consultation time

### Context

- Current solutions offer patients a booking service to an unknown doctor, HIVE aims to offer patients the same level convenience with a known and/or trusted doctor
- Current solutions do not utilise AI, but uses surveys to triage
- Australian is a hard market to crack with uptake to this technology being quite slow.

## **Value Proposition**

- What are the benefits of adopting this solution in terms of:
  - Commercial



- Social
- o Technological
- Operational

## **Core Idea/User Stories/Requirements**

- Create a platform that will allow AI to be added to as a next level service to patients and doctors alike.
- The prototype will first enable the doctor to add a widget to their existing website
  - Manage patients
  - Triage patients
  - Chat to patient
  - Manage payments
- The prototype will allow a patient to
  - Access their existing doctor via a widget
  - o Manage their account details including user credentials and payment options
  - Book and manage bookings
  - Chat to the doctor

## **Target Deliverables**

The following goals have been identified as dependencies that need to be addressed early in the life cycle of the project.

- 1. A Platform that allows a person to
  - a. Become a user of the platform by
    - i. Having a registration process that is
      - 1. Easy to use
      - 2. Intuitive
      - 3. Not too complex
      - 4. Does not use big or unusual words
      - 5. Simple input areas
  - b. Login by
    - i. A simple login in interface
    - ii. Shows where the error may be if the input is incorrect
    - iii. Is easy to retrieve password or login name via
  - c. Make a booking
  - d. Chat to doctor
  - e. Pay for services

## Roadmap

S1 – Release of the Teleassistance Platform for generic use with support for customers management and billing

This will be the focus of the project. If successful then we move to S2.

- S2 Release of the HIVE Ai Assistant for Doctors
- S3 Onwards, further releases of Al Assistants specific to the domains



#### **Execution Strategy**

- Explore the input data provided and confirm if acceptable for the focus of Proof of Concept
- Incrementally,
  - Build and deliver a docker container with blah blah functionality (to permit the client team to explore integration & validate it fits within the target deployment environment)
  - Refine the docker container and provide updates to HIVE AI with incremental features
- Prepare research report
- Provide knowledge transfer

#### **Sprint 1**

**Goals** The goal of Sprint 1 is to deliver scope document and work with Hive AI to agree on the acceptance criteria and priority for the deliverables. These can be decomposed to:

- Project success criteria
- Problem domain clarification
- Visual depiction of the workflow in a flow chart of the processes that this project will automate

#### **Target deliverables**

- Workflow flowchart that has been agreed upon by all parties
- Scope document (this document) that has been agreed upon by all parties
- Communication and delivery expectations that has been agreed upon by all parties

## **Sprint 2**

#### Goals

The goal of Sprint 2 is to deliver the end to end infrastructure so we can start collaboratively planning the interfaces to enable integration efforts to commence on HIVE Al's side. These can be decomposed to:

- Get an end to end solution working
- Collaboratively create an output data format / schema (in collaboration with client)
- Prepare a suitable environment within a docker container to encapsulate and execute the transformation process

#### **Target deliverables**

- A docker container encapsulating the transformation engine
- An invocation script that accepts the input folder, output folder and invocation parameters
- A deployment document that describes how to install and use the solution



## **Sprint 3**

Goals To be determined

**Target deliverables** 

## **Sprint 4**

Goals To be determined

# Limitations, Constraints and Considerations The limitations, constraints and considerations of the project are as follows:

