Expression of Interest	
Project Title	Intensive Care Support
Organisation or Supervisor	Kainos
Contact person	Pedro Mendonca
Contact email	pedrom@kainos.com
Team Members	
Name	**Email Address**
Kejia Wu	scykw1@nottingham.ac.uk
Liam Orrill	psylo@nottingham.ac.uk
Tajin Tasnuva	psytt1@nottingham.ac.uk
Xuanhao Li	scyxl3@nottingham.ac.uk
Nicole Millinship	psynm6@nottingham.ac.uk
Gurjyot Kaur	psygk2@nottingham.ac.uk

Description of Team Skills (You must provide clear evidence of to what extent the team has the Highly Desirable and where possible the Desirable Skills detailed on the Original Project form)

Project Motivation:

Our team's interest towards this project has been inspired by the urgent demand for Birmingham parents to have access to support whilst at Birmingham hospital. The eager demand of support to parents of children in ICUs deeply touched each member in our team and we would love to contribute to this project.

Kainos Group plc is a software company dedicates in developing IT solutions for businesses and organisations in the public, healthcare and financial services fields. We hope our progress could directly help other people and contributed to the society.

Project Understanding:

This project's objective is to develop a prototype of a responsive web application. This web application is designed to work mainly on iPads but should also be functional on smartphones and other tablets. The web application should provide information about the local area and support information. An administrative system should be designed to allow the less technically experienced charity workers to maintain the entire web application easily. Also, a virtual assistant could be developed as an extensive task.

Highly desirable skills and desirable skills

• *Experience in website producing:*

  We have experience of web application producing and some of our team members know how to create a responsive web application;

• *Knowledge of DevOps developing method:*

Some of our team members have a good understanding of DevOps which could promote the other's working efficiency;

- *Ability to work with clients and other students; Experience in working in a team:*

  Kejia and Liam have worked in business environment provided them with experience of team managing. Their experience makes him particularly suitable for this project and his colleagues and teachers found him a reliable and responsible person to work with;

- *Experience with version control by applying Git:*

  All of our team members have used Git in an academic or business environment;

- *Knowledge of Software Engineering:*

  Most of our team members have a good command of software engineering.

Preliminary Analysis and Solutions:

After some research done by our team, we listed out six points main points:

1. We've examined hospital and medical websites, such as ahd.com and UK HealthCare. We found them not detailed enough and they're difficult to be maintained by non-technical staff;

2. We want to make sure our project is easy for non-technical users to maintain. We have researched several visual development platforms, such as TWaver and Putdb WebBuilder 8, and hope our product could be as user-friendly as possible;

3. We have considered how to develop our web application's responsiveness. We found professional kits to ensure the application's responsiveness, such as Coolsite360;

4. To implement this virtual assistant, we decided to catch keywords in the user's text and responds with relevant information. If the assistant can't understand then we would forward the user's question to a database;

5. We have considered apply different JavaScript frameworks to design the website, including AngularJS and VUE. Some of our team members have already begun learning about these frameworks, but these frameworks appear to be too time-consuming to learn;

6. Our team administrator should ensure the code follows <<clear code>> standard, which maintains project code developability and readability. We planned to use Microsoft Teams to conduct our sources and minutes.

Besides our campus GitLab repository, we planned to use our personal GitLab accounts as well.

Project Management

We have planned to use a hybrid of agile and incremental development throughout the project. The main process has been divided into three stages, and after every stage we will demonstrate our project so far.

In the first stage, Gurjyot, Kejia, Liam and Nicole will create the UI. Teana and Xuanhao will choose and learn a suitable visual development platform structure. This stage should end before the end of the Winter break.

In the second stage, Kejia, Liam, Nicole and Teana will develop the visual development platform, whilst Xuanhao and Gurjyot will begin writing tests. This stage should end before April.

In the final stage, Xuanhao and Gurjyot will do testing, Teana and Liam will improve the codebase and Kejia and Nicole will work on creating the virtual assistant.

Progress Tracking:

Our team leader will offer his phone number and a link to his GitHub account to project's contact person. By following this link, a weekly undated conference minutes could be accessed. In this way the contact person could track the progress of our project whenever he or she likes. For further information or deep communication, our team leader would be glade to raise an online or offline conference.

(Max 750 words)

Date of Submission of EoI	16 October 2019
Date of Pitch	22 October 2019
Notification of award	

Please make sure to attach a CV for each member of the group.