Intensive care support:

Structure:

**1 minute – outline and introduction**

**1 minute – team introduction and roles**

We are Team 35, and our members are Kejia, our team leader, Liam, Nicole, our team administrator, Gurjyot, our git-master, Xuanhao and Tasnuva. All of us can put forth relevant skills and experience for the project to the table to develop a functional and responsive web application, aiming to reach the requirements of our sponsors to the best of our abilities. Gurjyot is passionate in art and design, and hence she is charge of designing the structure of the website, dealing with CSS side of things, which she has experience in from last year when we were required to create a database website. Kejia, Liam and Nicole will be implementing the main structure of the website, using HTML and JavaScript frameworks. Liam and Nicole are both familiar with JavaScript as we had to use it for form validations for our website last year. Kejia has also worked in a business environment developing and working on the backend database for the company. Tasnuva and Xuanhao are going to extensively research a virtual development platform structure, to aid non-technical administrators to maintain the website. These steps are to be completed before the end of the winter break. In the second stage of this project, Kejia, Liam, Nicole and Tasnuva will develop the visual development platform. Xuanhao and Gurjyot are in charge of building test scripts to ensure that everything is working correctly and that we can catch and rectify any errors and bugs in our code. We are targeting to finish this by April. For the final stage, Xuanhao and Gurjyot will do testing, Liam and Tasnuva will improve the codebase and ensure it is following all the coding conventions and guidelines, and Kejia and Nicole will focus on creating the virtual assistant.

**4.5 minutes - How we’re dividing the system – part for users, part for administrator**

For the users, we must develop a search engine which can provide information on hospitals as per the user’s inquiry. As we are using the agile methodology, upon designing the layout of our website, we will send it to our sponsor to ensure it meets all the requirements. We will keep improving based on the feedback and document all our changes and jot down everything that is discussed with our client. As this website must be non-technical user friendly; we will use JavaScript manipulation such that if the administrator wants to change anything on the website, they can simply delete the content and will not have to do any coding.

**How to create the virtual assistant**

* Matching system
* If no match, then will return no results, the message will go to a page that the administrator can access and edit
* Editor should be able to change the library of the matching maps
* If multiple matches, pop up several queries
* Using HTML5 to develop a chatbox
* Buttons

**Making sure its responsive – testing on different devices**

* Using listeners in JavaScript
* Flexible Layout
* Ideas: huge background picture so content is always visible with rotation of iPad screen
* Create a base web application using HTML5 to allow for differences between software and browsers– app will run on iPads as well as smartphones and tablets.
* We will use CSS to design a user-friendly application that is very simple to manoeuvre for both the users and the maintainers of the software. It will be easy to understand from the perspective of a non-technical user. Limitation will only run on browser
* We will use a JavaScript framework to build our web application around (react native ? Runs on various platfroms, ) limitation of using js html css for web based app is that you can do more local processing in browser , but only in browser, framework allows you to create it into an app. Device based applications. All apps could have minimal common functionality and then extra device specific features
* We will use a responsive system based on events (eg event listeners in JavaScript) – touch events, on mobile indoor and general location services, poss voice if siri. Maybe ibeacons, modern location services allow indoor location mapping too. app will become aware when walk in ?
* Talk about security & privacy if feasible could even track bed locations to allow parents to find child. Data protection (GDPR) is extra important & responsibility of developer
* Node.js- framework for writing servers in js- all programs use js so best option unless provided by kainos
* Dialogflow/api.ai
* json

**2.5 minutes - Reasons to choose us - website developing experience**

We believe that we should be chosen for this project as all of us have experience in web development. Just last year, we developed a database website, where we created the main structure of the website through HTML and added style to it through CSS. We also used PHP and JavaScript for validation as well as used PHP to connect to the database which was built through SQL. Some of our members have a good understanding of DevOps, which is inherently an agile methodology and relationship between IT operations and development. In our software engineering module last year, we were taught about the agile methodology which is what we will be implementing in our project. Tasnuva has worked in student IT support and has strong communication skills. She has no issues raising concerns, communicating issues as well as asking for help when needed. Therefore, being able to work as a team together, teaching each other as well as learning relevant skills together will help us to be very efficient for this project. Kejia and Liam have also worked in business settings, so are both very capable of managing teams, and taking control thus motivating the rest of our members to put in the work. We are all committed to meeting deadlines, testing and retesting for several platforms as well as ensuring a clean coding convention. We are all also familiar with version control and have all used git to push and pull projects, have older versions of our project in case we want to revert to a stage with no errors, and for collaboration. Gurjyot did a year of art and would therefore be able to design a user-friendly accessible website. Tasnuva has done higher level Biology and is extremely passionate in the field of medicine, so being able to develop a website to help families and children in intensive care is an important project to her. She used to work with children, helping improve their reading skills, as well as attended medical conferences. All of us really see how important and impactful this project can be to the parents of young children, and how convenient and helpful this website can be.

**1 minute – summary of key points**

**Source collectors:**

**Teana Rashid**

**Gurjyot Kaur**