I　The required system should have function to the reception, the guide of the patient, the display of the examination order, the feature of the automatic payment, and have the feature to make public by creating a treatment environmental data and so on. Be equipped with the feature of the dissemination of the education and the treatment to the patient and the family and so on. Have the feature can do an exchange of views with the hospital staff.

J　The request system works with Kumamoto Medical Network to provide medical documents and information exchange procedures with local medical institutions and welfare facilities using standard term codes such as SS-MIX2 and FHIR and standard information exchange procedures while maintaining security. It has a function to exchange information such as medical records, image information, waveform information, etc., and to send reverse referrals. Also, have the feature of the remote diagnostic imaging, the remote conference. It is a applicable open system at the multi-vender multi-platform, and examine in the remote medical care and be applicable with the area cooperation.

K　The required system has the function for medical students and residents to limit their accessible systems, and to approve their order entry or their documents. The system needs to provide functions or subsystems as the education research support-system by accumulating the required information every example and guide approval, study, training and a research for medical students, residents, fellows and post-graduate students, and provide these feature where the type of job, the function, the guide doctor to limit the use range of the informvirtualation according to the duty position and so on. When providing a feature as the subsystem, the system is required to provide all accumulated information to the education research supporting system and provide the feature the information can be used for in the merit by anonymous condition according to the request of the user in this education support system.

L　The required system has the function to send necessary data to the University Hospital Management Accounting system. The required system has the function of the data warehouse, which helps to make hospital statistics, clinical case management, cancer registration and registration and management function for experimental use of novel prescriptions. In addition, The required system should have a function that can be linked with various research systems that are expected to be introduced in the future, such as biobanks.

M　The required system should have a medical data lake function that accumulates all data of the ordering system, electronic medical record description system, and departmental system in real time in order to promote clinical research and business improvement using medical information. To provide a function to link medical information anonymized in real time to a data warehouse using SDM (Semantic Data Model), which is a standard format for data utilization. The data warehouse by SDM will be provided as a cloud service, and in addition to the functions for data analysis and AI development by professionals, BI (Business Intelligence) functions that allow general users to easily utilize data will be provided.

N　Each terminal of the system adopts a multi-window, a GUI, a mouse, pen tablet, a digital pen, a digital camera, sound and so on, attempt to unify operability and provide comfortable working conditions. Also, it provides integrated functions to realize centralized management of each terminal while ensuring security, and thin client functions such as VDI method and SBC method when necessary according to the work environment of the department to which the hospital or campus belongs. And can provide a virtual server function to operate these thin client functions smoothly without stress. It is possible to use the laptop computer and the cost effective handheld devices with high usability which are possible to connect with the wireless LAN to do the referred-to-input of the patient confirmation and the electrolyzing treatment record at the bedside. The system has ability to provide seamless images on a virtual desktop and environment for BYOD. For terminals that can use the thin client function, provide functions that enable terminal management and user management for each network used for access.

O　Operate service during the contract period without request system's stopping it. Be the high system of the redundancy to make the frequency of occurrence of the trouble little boundlessly and to limit an area of influence. Have the performance that the response is always quick can be secured. Have the amount of disk to switch over all information to be kept at present to and moreover for it to be able to save of all the treatment information during the contract period. The system has the redundant function such as remote backup and the total storage function with automated stratification management using virtualizing technologies.

P　Have the maintenance system and the operation education system of the whole requested system and do this. In operability education, it should have a function that can provide the information that the operator wants to obtain immediately by using technology such as chatbots. Also, when the fault occurs, catch the system as it is possible to make restore at once. Be the system by which a version rises and it can use it for the professional software that is always the latest. By the instruction of the university hospital, provide the technical information being necessary in case of operation on the requested system and so on. Because the university hospital provides the data-constellation and the master which becomes need of the treatment information accumulated by the hospital-information-system of possessing at present based on this and so on and so on, make to switch these over onto the requested system and available. As for the treatment data, it be possible to preserve Human Readability outside the system by the guaranteed general data format. In the future, when the university hospital needs data switchover from the requested system, provide the information necessary for its purpose to the university hospital. Also, admit that the outsider whom the university hospital and it admitted uses these for the switchover work.

(5)　Time limit for the submission of the requested material : 17 : 00 18 February, 2022

(6)　Contact point for the notice : Kakoh Seiji, Accounting Division, Hospital Administration Office, Kumamoto University, 1—1—1 Honjo, Chuo-ku, Kumamoto-shi 860—8556 Japan, TEL 096—373—5938