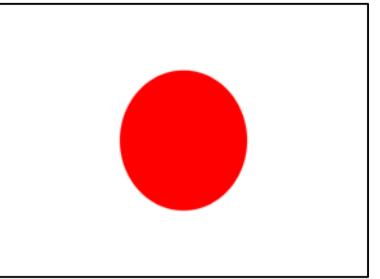




Developing Reservation and Learning Support Systems for Simulation Centers



Yoshitaka Maeda*, Yoshikazu Asada*, **, Yoshihiko Suzuki*, Ryutarō Kawano*

*Medical Simulation Center, Jichi Medical University **Center for Information, Jichi Medical University Contact: y-maeda@jichi.ac.jp

1 Objectives

- The number of medical institutions introducing simulation education increases every year. Our simulation center has more than 10,000 users a year, ranging from students to medical staff, who use our simulation to acquire various skills.
 - The simulation center has two major tasks:
 - to efficiently manage a huge amount of reservations and prepare to effectively educate users.
 - to analyze a large number of learning logs in order to give feedback to learners, and to give advice to educators.
- However, our center, like many other simulation centers, is currently performing reservation management with “analog tools” such as telephone, paper documents, and email, and so, we cannot fulfill these tasks effectively.

We will report on planned and ongoing reservation and learning management systems at our center.
 ✓ This system development process is expected to be a development guide at other centers.

2 Methods

- The problems of reservation and learning management at the center were summarized.
- The requirements of the new system** were clarified by these problems.

- ✓ Users can easily make reservations from the center's website.
- ✓ The center staff can collectively manage reservations using the system, and can efficiently plan the venue setting and simulator management and operation suitable for the reservation contents.
- ✓ The new learning management system will function as follows:
- ✓ The user can enter detailed information such as learning objectives and evaluation method at the time of reservation.
- ✓ The learner can easily record learning logs using a card reader at the beginning and end of learning sessions.
- ✓ The center staff can link information pertaining to 3 and 4, and can analyze them for learning management.

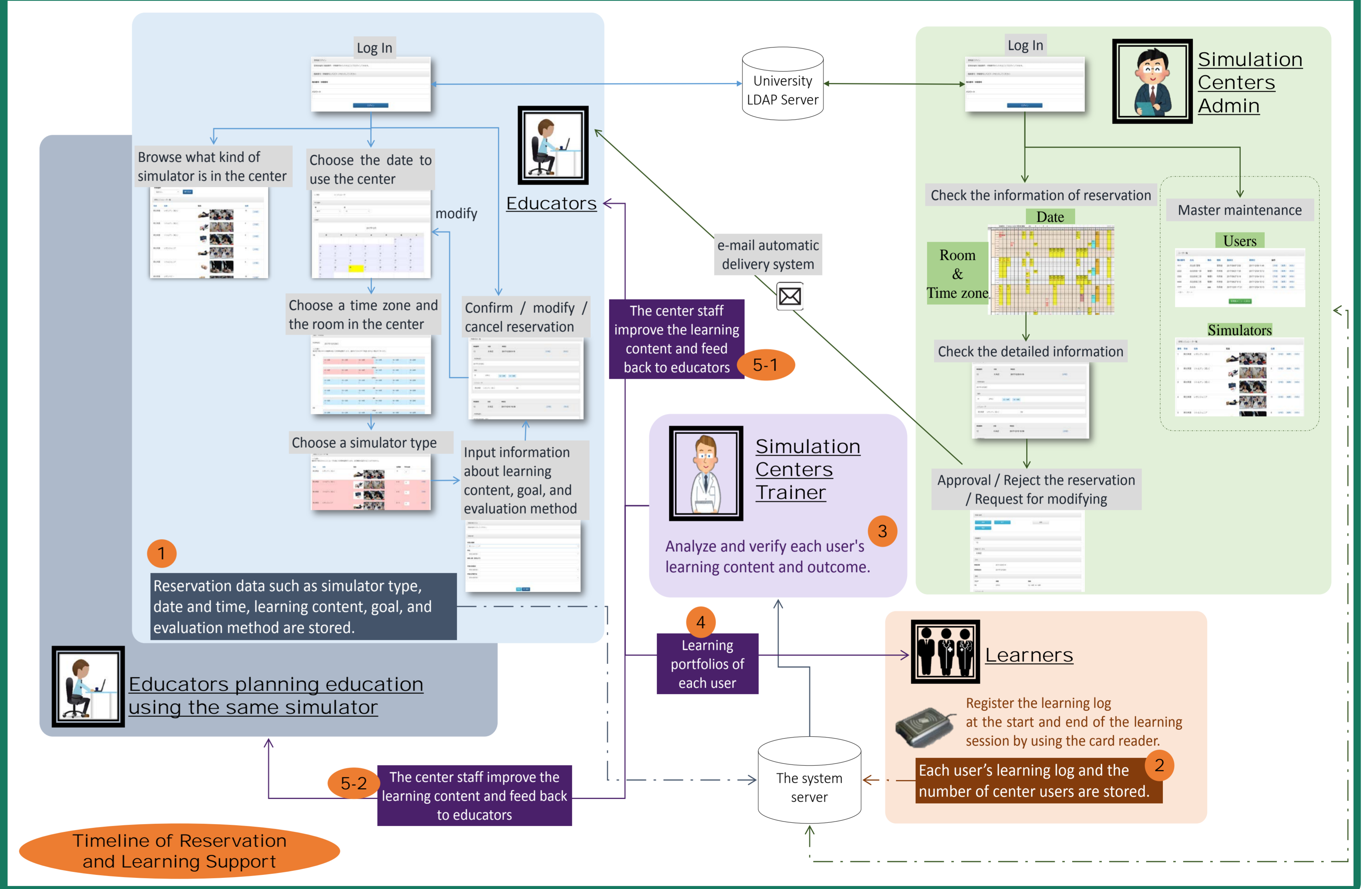
4 Conclusion

The new reservation and learning management system has the following merits:

- The burden on the educational preparation of the center staff is greatly reduced, and the usability of the center is improved.
- The simulation center can establish learning management and support systems.

The building of these systems is indispensable for the execution of the simulation center's original role, “support for improvement of simulation education effectiveness and efficiency and satisfaction.”

3 Reservation and Learning Support Systems (under development)



We can expect to construct and improve reservation and learning management systems by following the system concept and development process of this research. Moreover, by constructing this system, it is expected that many simulation center can cope with the expected increase in the number of users.