Programmer:李凯,陈河良,陈志彬

Software Test Engineer:李凯,张恒基

Product Manager:张浩瀚

GitHub URL: https://github.com/VOTE-kk/software\_course

1. A product vision

For the students who cannot have a good learning environment because they have no place every day,iLearn is a reservation system to help them find suitable places and provide a good learning environment;For classroom management teachers, iLearn can help teachers monitor the situation of study room staff in real time, manage the location in time, and arrange learning resources reasonably. iLearn will focus on students and maximize the use of learning resources as the goal to achieve modular management of the location of study rooms.Students can reserve the use of any different location for different periods of time.After successfully booking a place, students can go to the corresponding place to study during that time period.At the end of the period, students need to make a new appointment to continue their study in a new place. iLearn helps schools and teachers integrate self-study room resources to maximize students' learning opportunities.

1. Two Scenarios

Mr. Li's scenario: Using iLearn to manage the location of for-profit private study rooms

After seeing the popularity of online private study rooms and learning about the needs of students and social workers around him, Li decided to transform his spare house into a for-profit study room for society and the school. Therefore, he urgently needs a system to help him arrange the position of self-study room in his hands reasonably, so as to maximize the interests.

Therefore, Mr. Li chose to make use of the location reservation system of iLearn self-study room to upload the location number of the self-study room. At the same time, by virtue of the time-segment reservation function of iLearn, he divided the use time of a location into eight parts by 3 hours for students or social personnel to make reservations. Each time period and corresponding to a different price, late night and early morning time schedule prices are relatively lower. At the same time, they can choose whether to allow the same person to make multiple appointments within a specified time. Mr. Li chose to allow to maximize his profit.

Zhang's scenario: using music learning to find a suitable position for oneself to complete learning tasks

Facing the pressure of the final exam, Zhang needs to spare more time to study. However, faced with the choice of numerous self-study rooms in and out of school, Zhang could not go to the site to find the right location one by one, so he could only choose to visit several places to try his luck, but he had no choice but to waste his time.

Therefore, he tried the iLearn Self-study room reservation system recommended by his classmates. Every night, he checked the available self-study room and made an appointment according to his own needs. When he had something to do in the afternoon, he would choose to make an appointment in the morning to study the night before.

With the help of iLearn self-study room location reservation system, Zhang was able to find the corresponding location every day, and finally completed the learning task and passed the exam successfully.

1. Conclude several user stories

As a student, I need to intuitively understand where there is the right place at the right time for me to complete my learning tasks.

As a school study room management teacher, I need to alleviate or even solve the serious space occupying problem, so as to maximize the use of school study room location resources and provide more learning opportunities for students.

As a student in demand in the society, I need to balance work and study. I need to find a suitable place to study in the occasional time fragment, and I can afford the price to a certain extent.

As the owner of a private for-profit self-study room, I need to reasonably arrange the location of the self-study room to customers who have demands. I need to price the right to use the location of the self-study room according to the time and period.

1. Features of your software that are identified from the product vision,scenarios,and user stories

iLearn study room management system mainly includes two aspects of the function, on the one hand, to face the study room manager, the need for the study room manager to provide time schedule function, price calibration function, anti-occupying function, real-time display study room number function and so on. On the other hand, in the face of customers who use study rooms, they need to be able to display the function of study rooms with free positions according to time and location, provide the function of booking study rooms, limit the booking function of conflict time periods, and have the function of quotation and payment.