### **Unit Testing**

The unit testing is used to verify that each unit of the system is working as expected. This testing mainly verifies the correctness of algorithm logic (figure 1) and database (figure 2).

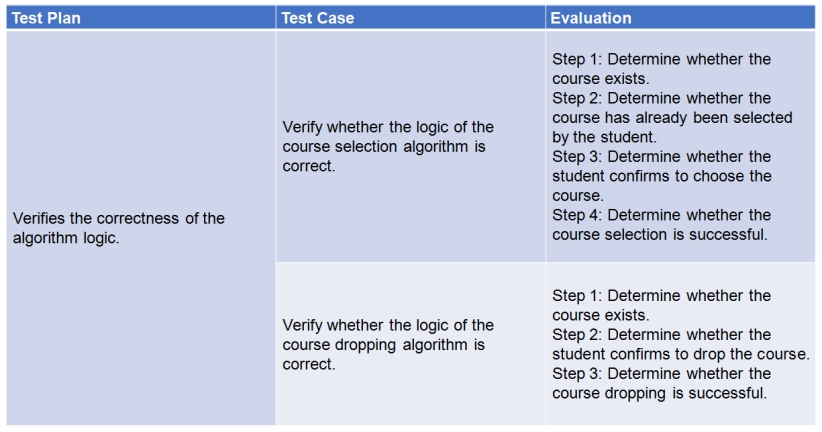


Figure 1: Unit Testing of the Correctness of Algorithm Logic

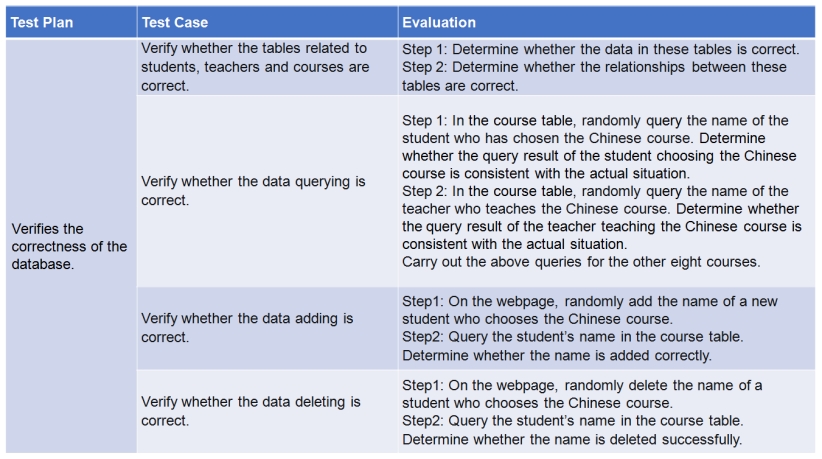


Figure 2: Unit Testing of the Correctness of Database

### **Functional Testing**

This section verifies the functions of login, course selection, course dropping, information searching and administrator (figures 3-7).

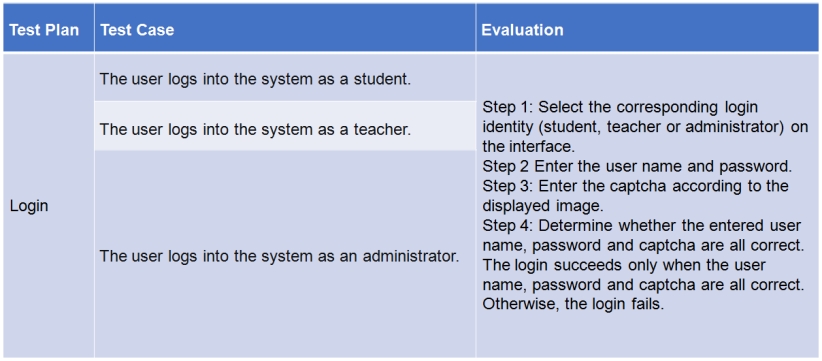


Figure 3: Functional Testing of Login

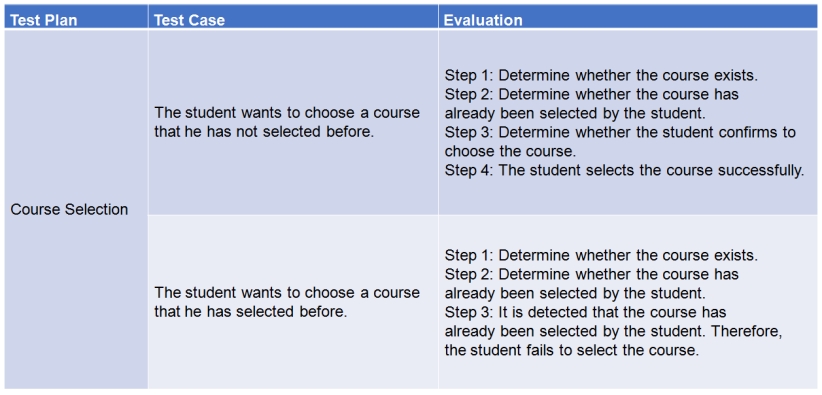


Figure 4: Functional Testing of Course Selection

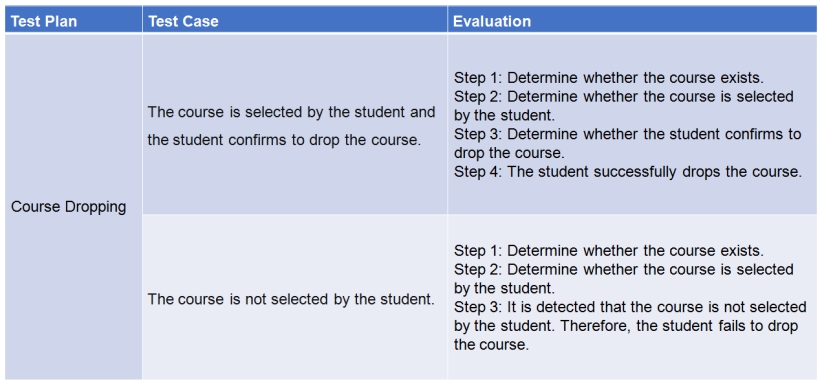


Figure 5: Functional Testing of Course Dropping

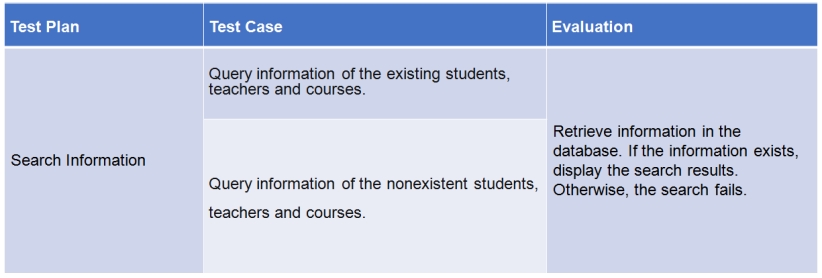


Figure 6: Functional Testing of Information Searching

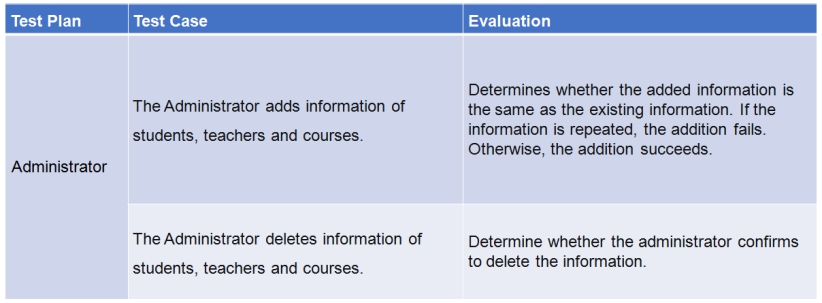


Figure 7: Functional Testing of Administrator

### **Usability Testing**

The usability testing is used to verify whether different types of users can normally use the system. This section verifies three types of users: student, teacher and administrator (figure 8).

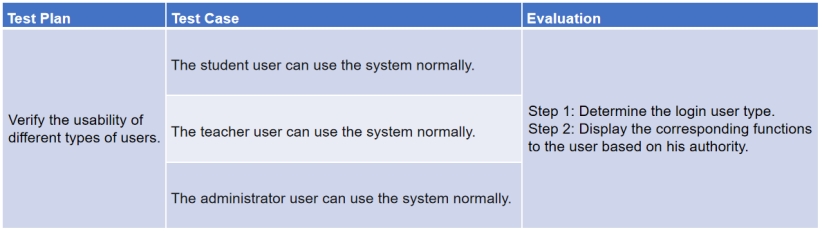


Figure 8: Usability Testing

### **Performance Testing**

The performance testing is used to verify the performance of the system under different conditions. This section mainly verifies the system’s reliability, compatibility and security (figure 9).

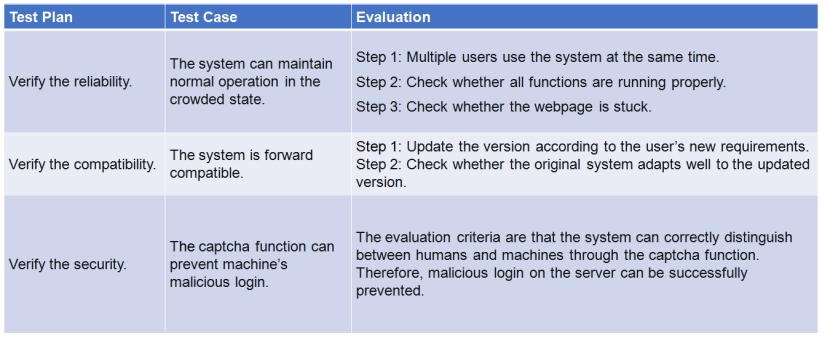


Figure 9: Performance Testing

### **Acceptance Testing**

The acceptance testing is used to verify that the entire software is working as expected. This section mainly verifies the user interface and the software’s running state under different versions of operating systems (figure 10).

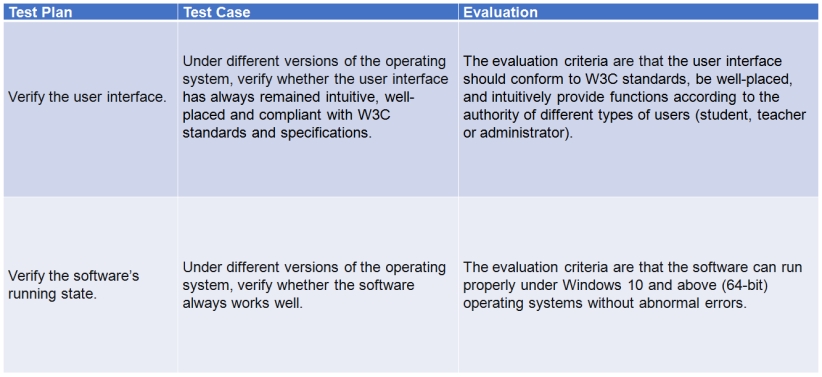


Figure 10: Acceptance Testing