## Requirements Check List

Table7.1 Functional Requirements Check List.

表格

描述已自动生成

Table7.2 Non-functional Requirements Check List.

文本

描述已自动生成

Table7.1 and Table7.2 show the completion of user requirements. It can be seen that almost 90% of user requirements have been finished, which includes all core requirements and almost all additional requirements. One method to help the team complete the project successfully is that dividing all requirements into different priorities. Then, development is based on the principle of high-priority requirements first. This method makes the work progress clearer, and the structure of the whole project more complete.

However, there are still three requirements that have not been finished.

Firstly, the 5th requirement of additional functional feature is to compare the time complexity of different sorting algorithms. Since the project is dedicated to the animation visualization of sorting algorithms and the proof of correctness, efficiency is not the most significant part. Due to the limited development time, the team decided to shelve this function.

Secondly, the 9th requirement of additional functional feature is to provide after-class exercises. Since it is easy to search for many related exercises and solutions to sorting algorithms, this function is unnecessary for the software. Therefore, this part is deleted.

Thirdly, the 1st requirement of the non-functional feature is to support Chinese and English. Because the software is entirely open-source, users can find out all the source code and documentation on the GitHub repository. Therefore, the team finally decided to develop an English software to make it easier for more people from different countries to understand and use it.

In summary, the project is finished with a high degree of completion. The software has a clear logic and structure. However, there are still some requirements that have not been completed. In future work, the team considers adding the efficiency part to further expand this software's audience.