Non-functional Requirement:

1. Usability requirement：
   1. User-friendly UI(e.g. Players can find hints by clicking on an icon with a question mark)
   2. A clear menu for directions to each part of tutorial need to

be supported.

1. Recoverability requirement:
   1. Codes Saving: the website can save users’progress automatically like Jupyter NoteBook.
   2. The website will keep deleted files for 30 days.
2. Reliability requirement:
   1. System will automatically shut down the program and return an error report when a student is trying to test a code with bugs. e.g. infinite loop.
3. Security requirement:
   1. Data will be saved online. No one is allowed to change other’s progress.