

Technical description

The function of personalized pepper needs to use the graphical programming tool chorographe, which uses the instruction box to realize the function.

At present, the language environment of the question answering system is Chinese, so you need to pull in the set speech language box and set the language to Chinese. Then pull in the say box and set a greeting sentence to guide the user to ask questions. In order to get the user's question audio, you need to pull the record sound box from multimedia to record the user's question recording. Then you need to play the user's recording to confirm whether the recorded audio is wrong. To achieve this function, you need to pull the play sound box from multimedia. From the record sound box to the play sound box, you need to transfer the saved address of the recording file, so that the play sound box can open the audio in this path. After that, the task to be completed is to convert the user's question recording into the corresponding question text, and create a new python programming language box in the chorographe. The method of speech recognition is to call the API of Baidu speech recognition, that is, first apply for the developer's account number of Baidu speech recognition access, obtain the appid, API key, secret key, and assemble the URL to obtain the token, Process the local audio, post it to Baidu speech recognition server in JSON format, match the returned results, get the content of result field, and clear irrelevant symbols. After getting the text of the user's question, the question needs to be transferred to the

question answering system to query the answer, that is, the question is spliced into the URL, the local end uses the get method to get the user's question, and then queries the question, and returns the result to the URL page, and the robot end requests the web page to get the answer. Then, in order to let the robot say the corresponding answer, pull in a say box, and input the question answer as a parameter into the box. After modifying the corresponding interface, the robot can read out the question answer by voice. At the same time, after the end of the local query, a front-end web page result is completed, and the corresponding URL is spliced at the robot end. After requesting the URL in the show web view box, the web page can be displayed on the robot's multimedia screen. It should be noted that before displaying the webpage, you need to hide the webpage to achieve the effect of clearing the screen, otherwise it is difficult to update and display the webpage again. If there is a need to ask questions for many times, then after the pepper answers the questions, return to the beginning module to complete the design of a continuously running question answering robot.

When a child has any questions, we use this app to answer them