Robotic Process Automation J Component

Ticket Booking Automation using Speech Recognition

Batch Number : 08

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Abstract:

Our project, automatic ticket booking using voice recognition would help users to book train tickets seamlessly. The user would first tell the source and destination rather than type them out, then the user would also give other information like date and seat type to the computer. Then, we would use python to implement a speech recognition algorithm to get the data spoken by the user. We will be using English Language as the default communication language between the user and the system. We would already have pre recorded data of sources and destinations which would be saved in an excel sheet. The automation would then search and match the data given by the user with the pre recorded data that's present. After the correct match is found, the automation would store that particular information in the form of a string. The automation would then open the browser, search for the website "IRCTC" and then click on to book a ticket. The automation would automatically enter the source and destination along with the other information like date and seat preference. Then the automation would search through the list of trains and try to book the ticket which would match the preference of the user. The automation would try to compare between different fare prices and try choosing the cheapest of all the available fares. Once the best option is chosen, the automation would then move on to book the required ticket. The booked ticket would then be sent to the user by email or by phone number depending on how that particular user has registered in the IRCTC portal.

We have chosen this project as we are interested in implementing a speech recognition algorithm and then combining it with UiPath to make an application that would be very useful and save a lot of time for the users.