

Software Requirements Specification Document

For

Chatbot using

IBM Watson

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1. Introduction

1.1 Purpose

The purpose of the document is to provide an outline of the chatting bot for college assistants. And it must help to communicate with office faculty's.

1.2 Scope

With the help of this application a user can chat with college faculty for asking their queries about college and other related to education.

1.3 Product Perspective

System Interfaces

Application runs in any computer or laptop or mobile phone devices with active internet connectivity.

User Interfaces

The application has a Login/Sign in options, chatting box and some buttons for enabling mic for voice, and send button to send message to the IBM cloud.

Hardware Interfaces

Any computer or laptop and mobile phone and tablets with internet connectivity can access this webpage or chatting application.

Software Interface

We can use any browsers like google Chrome, safari, UC browsers and any other internet browsing application in any platforms.

Product Functions

User characteristics

There are mainly two users for the application, the students and admin. Students use the application to chat with college faculty. The other user admin can edit questions and answers, college locations etc.

Acronyms and abbreviations

OS : Operating System

IDE : Integrated Development Environment

IBM : International Business Machine

2. Requirements

External interfaces

The external interfaces consist of user interfaces, hardware interfaces, Software interfaces and communication interfaces.

User Interfaces

The user interface is designed using web technologies like HTML, CSS, Bootstrap, curl and JavaScript.

Hardware Interfaces

Any Computer or mobile phone with internet connectivity.

2.1.2 Software Interfaces

Any OS is suitable for this application. Also every internet browser like Google chrome, safari, internet explorer etc..

2.1.4 Communication interfaces

The app is connected to the database with help of IBM Watson server.

Functions

Admin Functions

Login
Add/remove new Questions
Add/remove Answers

User Functions

Chatting interface.
Send button.
Must show previous chat messages.

Usability requirements

The user should have knowledge in internet browsing and chatting.

Performance requirements

The system must be accurate. The edited values should be updated instantly. There should not be lag while chatting with chatbot.

Database requirements

The application uses PostgreSQL databas. The system is connected to IBM Watson Assistants using API Key.

Design constraints

The design should not be very complicated. A user without any technical background should be able to use it.

Software system attributes

The application must run on any platform like windows, linux, MacOS, Android, IOS etc.

3. Verification

We check whether the system meets all the requirements and constraints mentioned above.

4. References

<https://www.ibm.com/watson/assistant>

[IEEE Xplore](#)