

Abstract

This paper presents a concept platform that allows its users to easily manage their daily tasks using a text based software, namely a chatbot. The users can interact with their cloud based task management tool, for example Gitlab, talking to the chatbot platform like to a normal human through a chat application like Slack. The platform also allows users to be announced real-time when other teammates are updating or creating new tasks. The application consists of a web API which communicates with Slack API for interacting real-time with the user on the chat, Dialogflow API for understanding and processing the text from the user, and Gitlab API for interacting with the user's tasks. The web API was created using Javascript's server interpreter, NodeJS and MongoDB for data persistence.

This paper is structured as follows. Chapter 1 provides an introduction, the reason behind creating this application and why this solution is needed. Chapter 2 presents some current possible solutions to the problem described in Chapter 1, and analyses their issues and faults. Chapter 3 goes through the main solutions used nowadays and why the application is superior to current solutions. Chapter 4 presents the application in details, both from a theoretical aspect and from a practical aspect, also providing samples of code throughout. Chapter 5 brings a conclusion and a short summary of the solution presented, while Chapter 6 contains the bibliography and inspiration used for the paper.

This work is the result of my own activity. I have neither given nor received unauthorised assistance on this work.