INTERNET AND WEB SYSTEMS 1-(Fall-2018)

PROJECT REPORT - 2

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Solution

I am planning to solve the problem that I stated in my report-1 using a slack bot. Since it is one of the easy and efficient communication applications used in most of the industry efficiently both in mobile and desktop/laptop platform. (Skype too, but I am not sure how to address the solution to this problem using skype for business since they don't expose much of the api for extensible automation purpose)

Architecture

I am planning to keep a brain for the bot to maintain the bot's persistence. Deployment will be done in Heroku or AWS cloud and MongoLab for the bot's brain.

Technologies to use

This project will involve lot of work with exploring slack's api's. Dealing with security for this project is very important in lot of ways. Let's say some one runs a command in a slack group, which will give a confidential output and that is not supposed to be printed on the slack group, it should do a private message instead. And I am planning to come up with more security test cases as I develop the project.

Extensibility

I am going to use Hubot framework for a base slack bot and going to develop a node module for the bot to solve this problem. This will be a more efficient method instead of hardcoding the logic for solving this issue in the bot's code. Encapsulating the logic in a node module can make this more extensible

References:

1. https://hubot.github.com/
2. https://hodgkins.io/chatops-on-windows-with-hubot-and-powershell
3. https://api.slack.com/incoming-webhooks