**CS 319 PROJECT DESCRIPTION (1-Page)**

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| **Team No & Name** | Group 15   * Serhan Gürsoy * Asena Rana Yozgatlı * Kutbidin Ululu Meder * Mustafa Said Sarı | | | |
| **Project Name** | Genius | | | |
| **Describe who will use this software? Is it a software for real persons or for organizations? For real persons which type of person is the user? Are there multiple types? For organizations describe the organizational setting that this software is used in, including the types of users, and their roles in their organizations.** | | | | |
| All computer users will use this software. Also, real people will use this software. All type of persons can use it but mostly people who like shortcuts and simple usage are the type of this software’s user. | | | | |
| **Describe the major functionalities of the proposed system. What would you use this software for? Is there an important set of inputs and outputs? Are there any terminology or vocabulary for the use area?** | | | | |
| Genius is an intelligence personal assistant for computers. This Intelligence personal assistant will run at the background as a Windows Service. User will use his/her voice to command Genius and it will execute these commands whether they are related about getting an information from internet or related with personal computer -like starting an application. To activate Genius, or in other words to wake it up to listen user’s commands, user should simply say the magic words (i.e. “Hey Jarvis!” or ”Hey Siri”) to the microphone.  Genius’s priority also will be helping user but not being a companion to her/him. Yet, as a secondary goal, we can implement first phases of the natural language processing to give Genius to reply simple user questions (i.e. “How are you?”, “What is your name?”). However, this won’t be advanced and shouldn’t be confused with other Artificial Intelligence Chat Bots.  Although these features can be expanded in near feature, we need to implement basic features which an assistant require to work functionally. Genius can recognize natural voice without the requirement for keyboard. Genius will answer questions according to their form. If question is asked to learn something new but not to execute something, using certain API’s, user can get answer right away. Or user can use Genius to start applications like Word, Paint. | | | | |
| **How many different detailed features do you think this system will have?** | | | | 8 |
| **How many of these features will be critical to define the system?** | | | | 3 |
| **What types of user mistakes do you expect?** | | | | |
| Using different or improper language to activate or use this software. | | | | |
| **What other types of problems could this software experience?** | | | | |
| Comprehension problems to user commands. Unable to find program or information that wanted to open. | | | | |
| **Other than basic functionality, how would you differentiate low quality and high quality software in this project? How would users differentiate?** | | | | |
| Perceive all words correctly and execute commands impeccable. | | | | |
| **Other than users of this system, who would be interested in this software project’s success? Is there a way they could contribute to its success?** | | | | |
| Companies could be interested in this software project’s success because this software saves time. For future implementations, they can help via using this software and giving advice for make it better. | | | | |
| **How would you rate the size and complexity of this software? From very small to very large, and from very simple to very complex, how would you qualify the project?** | | | | |
| **Size** | Large-medium | **Complexity** | Complex | |
| **What are the major technologies for this software? Are you familiar with the technologies you need to use for this project? Have you completed a project that uses these technologies? If not how will you learn about these technologies?** | | | | |
| One of the biggest obstacle is Voice recognition and we are not familiar with it but there are some libraries in c# that can we use. We haven’t completed a project that uses these technologies. However, we will try to handle it via using internet sources and TA’s and instructor’s help. | | | | |
| **Suppose you gain access to a partially completed project in the same field. How would you reuse the code from that project?** | | | | |
| Since voice recognition is hard thing to implement we can look at its implementation. | | | | |
| **Can you estimate the total number of hours to work on the project? Would this be distributed exactly the same on your team members?** | | | | |
| 180 hours and yes it would be distributed approximately the same on our team members. | | | | |