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| MOBILE APPLICATION DEVELOPMENT PROJECT REPORT |
| **ADVANCED VOICE ASSISTANT (With Speech Recognition)** |
| COURSE INSTRUCTOR: SIR TALHA ALAM  LAB INSTRUCTOR: SIR WAHAJ |

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| **SEMESTER 6B** | | **SPRING** |  | **2019** | |
| **TITLE OF PROJECT** | | | | | |
| ADVANCED VOICE ASSISTANT (With Speech Recognition) | | | | | |
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## INTRODUCTION:

For most of us, the ultimate luxury would be an assistant who always listens for your call, anticipates your every need, and takes action when necessary. That luxury is now available thanks to artificial intelligence assistants, aka voice assistants.

Voice assistants come in somewhat small packages and can perform a variety of actions after hearing a wake word or command. They can turn on lights, answer questions, play music, place online orders, etc.

## PROJECT SCOPE AND OBJECTIVE:

According to the overall description in the introduction, the purpose of the project is to develop an Android application that provides an intelligent voice assistant with the functionalities like calling services, message transformation, mail exchange, alarm, event handler, location services, music play service, checking weather, searching engine (Google, Wikipedia), camera, etc.

Many years ago, software programs were developed and run on the computer. Nowadays, smart phones are widely used by all people. About 2.5 billion people around world have some sort of Smartphone. This shows that the market is increasing fast and there are also more capabilities for Smartphone because of this wide use.

Therefore, the software development on the Smartphone is very promising. The operation modes on the Smartphone are by working with gestures and through the keyboard. It is not a convenient way for users with completely manually input.

The common way of communication used by people in daily life is through the speech. If the mobile phone can listen to the user for the request or handle the daily affairs, then give the right response, it will be much easier for users to communicate with their phone, and the mobile phone will be much “Smarter” as a human assistant.

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## PROJECT DISCRIBTION:

This project is based on Android application development and provide personal assistant using voice recognition or text mode operation. This program includes the functions and services of: calling services, text message transformation, calculator(basic) , alarm, event handler, location services, checking weather, Google searching engine, robot chat, camera. As it integrates most of the mobile phone services for daily use, it could be useful for getting a more convenient life and it will be helpful for those people who have disabilities for manual operations.

## SOME BASIC COMMANDS:

### To Open Browser:

* + Say open browser to open the browser with Google’s link

### Dial-up:

* + Say dial to open dialer after the number is told

### Open default message app

* + Say SMS and content to open SMS after content is provided

### Calculator:

* + Calculate the basic arithmetic result by saying Calculate
  + For Example, 2 + 2.
  + Syntax Calculate <Left operand> <operator> <right operand >

### Teach the Bot:

* + When you ask the question and the confidence score of the answer bot knows is less than 40% then it will open the web browser for you with your query searched on google now you have to find your answers and teach the bot by saying modify data set to write the new response for you ion bot’s data set. Test the response by re phrasing it to the bot.

## SOME SCREENSHOTS OF APPLICATION: