**1. WEBAPI Security**

For Providing High Security to WebAPI We Can Apply Token Base Authentication to API . User Must need to pass token With Call To API . We Can Handle Token Along with Expiration Time

**2. Automated Testing**

For Implementing Automated Testing We Can Use Unit Testing Framework NUnit To Build Test cases .

**3. Sentiments Detection Scenario’s**

For Detecting Sentiments we can Use below Logic -

**Scenario 1**

If user does not respond to bot in a time span of 10-15 or as we finalize then Bot Can Stop the Chat or Close Chat. Bot can keep asking user to give reply within that time span

**Scenario 2**

For Detecting Sentiments We Need to User We Need to Detect Some Set of Keywords that may exist in User’s Abusive Talk or Anger Talk only in that we can detect User’s Sentiments

**4. Integrating App To Social Media**

I Have Checked Microsoft Bot Framework& Bot Framework SDK In Order To Achieve Bot Implementation and Integrating it To Social Media . You Can Check it Below

**Microsoft Bot Framework**

[**http://www.botframework.com/**](http://www.botframework.com/)

**Microsoft Bot Integration With Social Media like Slack, Facebook , Skype etc**

<https://docs.botframework.com/en-us/csharp/builder/sdkreference/gettingstarted.html#channels>

**5. Analysis On Teaching The Bot**

We Need to Make Set of Message Templates For Bot. We Need to Teach Bot with Set Of Message that Bot Will Ask and Then We will Analyze User’s Response To Those Message and With logic and Certain Conditions that required to be in User’s Response Our Bot will Take Required Action Like Make a Call To Get Products API Or Buy Product .

These Message Templates are useful and Base in making Bots and Rest Responses will be handled with Logics that Will Make Further Messages By first analyzing User’s Response .It will contain Messages that Bot will ask Like If it is E-Commerce Bot It may ask user with set of messages asked below -

**Sample Bot To Buy E-Commerce Product**

**User** : Hi, Bot. I want to buy An iPhone 7 . Please give me cost and links

From Where I can Get that .

**Bot** : Hi User , Please Give me 5 minutes To Process Your Request

**User**: Ok Thanks, Please Hurry!

**Bot** : Thanks for Your Patience .Please find below the list of Links where you can find IPhone 7 Product Details and Cost .

1. **Amazon**

**Product** **Url** - www.Amazon.com/Product/Iphone7-details

**Cost** - $1020

**Product Specification** - Camera 5MP etc

2. **Ebay**

**Product** **Url** - www.ebay.com/Product/Iphone7-details

**Cost** - $980

**Product Specification** - Camera 5MP etc

3. **AliBaba**

**Product Url** - www.Aliexpress.com/Product/Iphone7-details

**Cost** - $1000

**Product Specification** - Camera 5MP etc

**User**: Hi Bot Thanks for The details. I want to buy it . Will you Please Help me in that ?

**Bot** : Yes Sure ! Please Choose one Of the Shopping Websites below to buy iPhone 7 . You can choose By Option Number of Name

1. Amazon

2. Ebay

3. Alibaba

**User**: I wan to go For Amazon

**Bot** : Ok Sure . Do you want to go for Payment Process

**User**: Yes sure

**Bot** : Please Choose Payment Methods From -

1. Paypal

2. Credit Card

3. Skrill

4. Qiwi Wallet

**User**: I want to go for Credit Card

**Bot** : Ok. You Have No Credit Card Previously Save with Us. Please Provide the Below Credit Card Details

1. Credit Card Number

2. Card Holder Name

3. CVV

**Provide Details in Below Format - ( Without Quotes )**

"Card-Holder-Name,Credit-Card-Number,CVV"

**User**: 1356-2458-6543-8767,John Deft,460

**Bot** : Thanks For The Details User . Your Payment is in Progress .

**User**: ok ! Will Be waiting .

**Bot** : Thanks For Patience User ! Your Payment Has Been Done . Find you Amazon Transactin ID below -

**Transactin ID**: 122342f345

Do you Want to Save Credit Card In Our Data Base For Future Use ?

Press ‘Y’ For Save  
 Press ‘N’ For Don’t Save  
  
**User: Y**

**Bot : Ok Thanks , Details Are Saved To Our Database .**

**Tomorrow’s Task**

**We are Working on Analyzing and listing Functionality, Modules, Pages, For All 3 Types of Users in System and Will be Giving listing in next Update**

**QUERIES**

1. **I didn’t get below point in Requirements Document**

our system allows drag an drop lego parts to build a flow chart of conversation. each lego part can customized. lego part can be - display menu to choose from list of values.