**8. IMPLEMENTATION**

**8.1: INTODUCTION:**

Implementation is the stage of the project when the theoretical design is turned out into a working system. Thus, it can be considered to be the most critical stage in achieving a successful new system and in giving the user, confidence that the new system will work and be effective

The implementation stage involves careful planning, investigation of the existing system and its constraints on implementation, designing of methods to achieve change over and evaluation of change over methods.

8.2: MODULE DESCRIPTION:

1. **Alexa**
2. **AWS Lambda**
3. **Heroku**
   1. **Firebase (Fire store)**
4. **4.FlaskApi**
5. **5.Ngrok**

# 8.2.1. Alexa:

In this module first we have to develop an Alexa skill in Alexa Developer console. Then we have to get ARN token form the AWS lambda server. Which is the end point for Alexa and to process Alexa skill information which as taken form the user. Here Alexa act as intermediate between AWS lambda and user

8.2.2. AWS lambda:

In this module we have deploy a Python function to AWS lambda. so, it can response to the request made by Alexa. Python Function which is deployed in Lambda is heart of whole process where it handles all the errors, exceptions which the Alexa wants to get back as response massage to show to the user

8.2.3. Heroku:

In this module a flask Api is running server which handles all the database function. Main purpose of this is one to know where the is located on internet.

8.2.3. Firebase (Fire store)

In this module Heroku take data form the Fire store which has stored in format of json and it can also write to database also

8.2.4 Flask API

In this module Flask API which running on local computer which performs all the automation which provided by the admin. This API takes request for NGROK and follow it commands

8.2.5 NGROK

In this module Ngrok is tunneling server which connect local server to www server so AWS Lambda can easily place request and take back the response if it provided