



विद्या विनियोगात् विकासः

VoiceBot Natasha

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Certificate

This is to certify that

Mr. Pratik Pramod Joshi

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Mr. Ganesh Bansi Sanap

Mr. Vallabh Bharat Kade

Has successfully submitted the project **Voicebot Natasha** in PHP
for the partial fulfilment of BCS Degree at

Bill Gates Institute of computer science and management

Prof. Ismile Hannure
(Project Guide)

Dr. A.R. Razvi
(Principal)

External Examiner

Introduction

- Natasha is a voicebot. Natasha can help us to browse on the internet just with the help of voice commands.
- It will redirect us based upon some basic keywords.

Objectives

- Voicebot Natasha is a open source environment
- Idea of this project is came from google assistant
- In google assistant we cant add new commands but in this project voicebot Natasha we can add our personalized command

Project Category

- It is a web based platform independent application
- Unlike any Website this application is also accessible from any Computer with an internet connection .
- It needs lower requirements on the end user system.

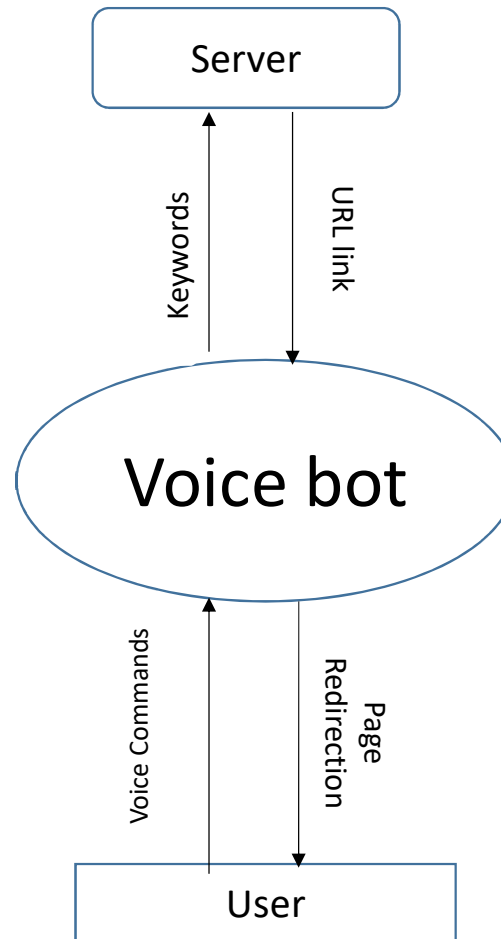
Tools and Platform

- We have used PHP , HTML, JS, Bootstrap and some web API for making this voicebot.
- For saving the data we have used mysql database.
- The Entire Project executes on xampp server for local use.
- It can be accessed from any type of browser.

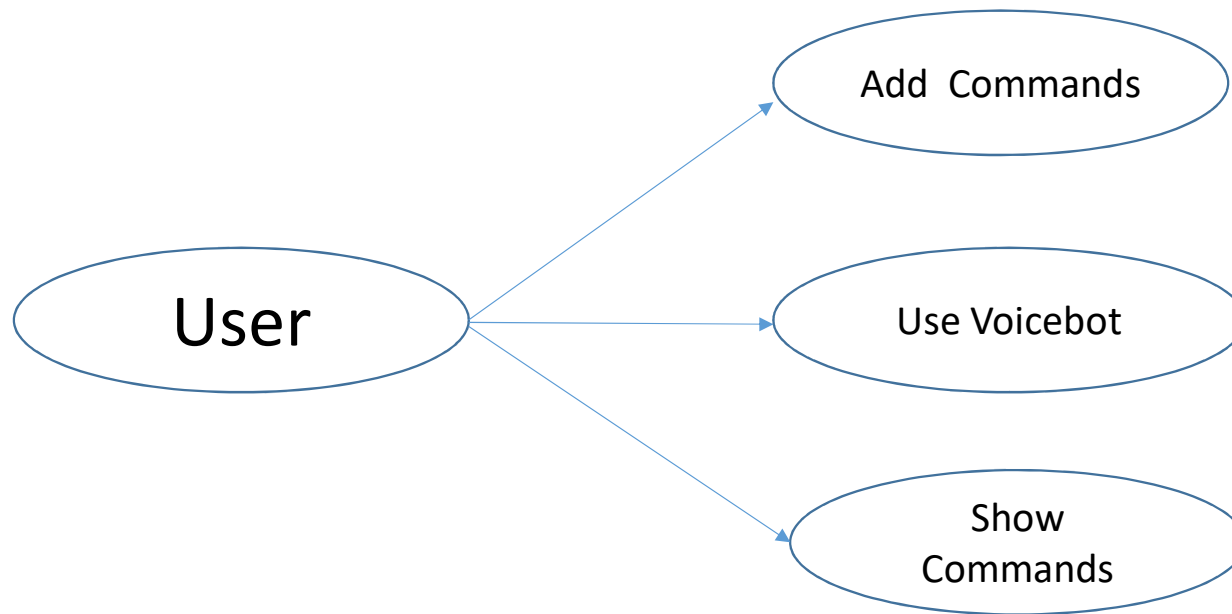
Requirements

- Browser:- Google chrome /Firefox or any updated browser.
- HardwareRequirements:- HDD(5GB),RAM(512MB), Mice is compulsory.
- Operating System :- Windows , Mac, Linux , Unix.
- Internet Connection with good internet speed.

Data Flow Diagram



Use Case Diagram



```
FOI  index.php x
1  <?php
2  include("db.php");
3  ?>
4  <!doctype html>
5  <head>
6  <style>
7      /* CSS comes here */
8      body {
9          font-family: arial;
10     }
11     button {
12
13         border: none;
14         background-color: transparent;
15     }
16
17     #output {
18         background-color: #F9F9F9;
19         padding: 10px;
20         width: 100%;
21         margin-top: 20px;
22         line-height: 30px;
23     }
24     .hide {
25         display: none;
26     }
27     .show {
28         display: block;
29     }
30 </style>
31 <title>Natasha AI Buddy</title>
32 <script src="https://code.responsivevoice.org/responsivevoice.js?key=x7ZRZzj4"></script>
33 <meta charset="UTF-8">
34 <meta name="description" content="Simple voicebot using JavaScript named as Natasha, she can help you to search something on google ,play music or video on youtube,open instagram
35 profile etc .... She is learning too many things yet.....">
36 <meta name="keywords" content="Natasha,AIBuddy, #6Giverespecttakerespect....">
37 <meta name="author" content="Pratik Joshi">
38 <meta name="viewport" content="width=device-width, initial-scale=1.0">
39 <link rel="icon" type="image/x-icon" href="https://cdn-icons.flaticon.com/png/512/1698/premium/1698535.png?token=exp=1637695164~hmac=f64d5293550119e6fd3d0d7c0fe8cf3e">
40 </head>
41 <body onload="">
42     <h2>Hii I am Natasha Click Me to Speak....</h2>
43     <p><button type="button" onclick="runSpeechRecognition()"></button> &nbsp; <!-- <span id="action"></span> --></p>
44 </script>
```

Line 41, Column 5

Spaces: 2

PHP

```
FOI  index.php x
39  </head>
40  <body onload="">
41
42  <h2>Hii I am Natasha Click Me to Speak...</h2>
43  <p><button type="button" onclick="runSpeechRecognition()"></button> &nbsp; <!-- <span id="action"></span> --></p>
44  <script>
45
46  responsiveVoice.speak("Hi I am Natasha Click me to continue.....");
47  function runSpeechRecognition() {
48
49      var SpeechRecognition = SpeechRecognition || webkitSpeechRecognition;
50      var recognition = new SpeechRecognition();
51
52
53      // This runs when the speech recognition service starts
54      recognition.onstart = function() {
55          // action.innerHTML = "<small>listening, please speak...</small>";
56      };
57
58      recognition.onspeechend = function() {
59          // action.innerHTML = "<small>stopped listening, hope you are done...</small>";
60          recognition.stop();
61          // runSpeechRecognition();
62      }
63
64
65      // This runs when the speech recognition service returns result
66      recognition.onresult = function(event) {
67          var transcript = event.results[0][0].transcript;
68
69          transcript=transcript.toLowerCase();
70          //natasha Will Start If you call her
71
72          if(transcript.includes("natasha")){
73              transcript=transcript.replace("natasha","");
74              transcript=transcript.replace("?", "");
75              responsiveVoice.speak("Initialising Search");
76              if(transcript.includes("what is")){
77                  var x=transcript.replace("what is","");
78                  window.open('https://www.google.com/search?q='+x, '_blank');
79
80              }else if (transcript.includes("play")) {
81
82                  var x=transcript.replace("play","");
83                  window.open('https://www.youtube.com/results?search_query='+x, '_blank');
```

Line 41, Column 5

Spaces: 2

PHP

```
FOI  index.php x
88
89 $result2 = $conn->query($sql2);
90
91 if ($result2->num_rows > 0) {
92     $x=1;
93     while($row2 = $result2->fetch_assoc()) {
94         ?>
95         else if(transcript.includes("<?php echo $row2['command']?>")){
96             responsiveVoice.speak("Search Initialization Sucesfull ...");
97             window.open("<?php echo $row2['uoc'] ?>", "_blank");
98         }
99     }
100     <?php
101 }
102 }
103 }
104 ?>
105
106     else if (transcript.includes("new command is there")) {
107
108         window.open('command.php', '_blank');
109     }
110     else if (transcript.includes("sign up")) {
111
112         window.open('signup.php', '_blank');
113     }
114     else if (transcript.includes("commands please")) {
115
116         responsiveVoice.speak("Following are my some commands");
117         <?php
118
119         $sql3 = "SELECT * FROM command";
120
121         $result3 = $conn->query($sql3);
122
123         if ($result3->num_rows > 0) {
124             $x=1;
125             while($row3 = $result3->fetch_assoc()) {
126                 ?>
```

Line 41, Column 5

Spaces: 2

PHP

```
FOI  index.php x
110
111
112         } else if (transcript.includes("sign up")) {
113
114
115             window.open('signup.php', '_blank');
116
117         }
118         else if (transcript.includes("commands please")) {
119
120             responsiveVoice.speak("Following are my some commands");
121             <?php
122
123             $sql3 = "SELECT * FROM command";
124
125             $result3 = $conn->query($sql3);
126
127             if ($result3->num_rows > 0) {
128
129                 $x=1;
130
131                 while($row3 = $result3->fetch_assoc()) {
132                     ?>
133                     document.write("<?php echo "<h3>natasha  ".$row3['command']. "</h3><br>" ?> ");
134                     responsiveVoice.speak("<?php echo "natasha  ".$row3['command'] ?> ");
135                     <?php
136                 }
137             }
138             ?>
139
140         }
141
142     }
143
144     };
145
146     // start recognition
147     recognition.start();
148 }
149
150 </script>
151 </body>
152 </html>
```

Line 41, Column 5

Spaces: 2

PHP


```
FOI  index.php  command.php
1  <?php
2  include("db.php");
3  if(isset($_POST['submit'])){
4  $sql = "INSERT INTO command (command, uoc)
5  VALUES ('$_POST[cmd]', '$_POST[cmdu]')";
6
7  if ($conn->query($sql) === TRUE) {
8      echo "<script>alert('New record created successfully')</script>";
9  } else {
10     echo "Error: " . $sql . "<br>" . $conn->error;
11 }
12 }
13 ?>
14 <!doctype html>
15 <html lang="en">
16 <head>
17 <!-- Required meta tags -->
18 <meta charset="utf-8">
19 <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
20
21 <!-- Bootstrap CSS -->
22 <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css" integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/
iJTQOHCwr7x9JvoRxT2MZw1T" crossorigin="anonymous">
23
24 <title>AI Buddy</title>
25 <style type="text/css">
26
27 </style>
28 </head>
29 <body>
30
31 <form method="post" action="" class="p-5" id="command">
32 <center><h3>Create New Command for Natasha</h3></center>
33 <div class="form-group">
34 <label class="form-label">Enter Command Here</label>
35 <input type="text" class="form-control" name="cmd" placeholder="Enter Your Command Here">
36 </div>
37 <div class="form-group">
38 <label class="form-label">Enter Command Action</label>
39 <input type="text" class="form-control" name="cmdu" placeholder="Enter Action on Command">
40 </div>
41 <div class="form-group">
42 <input type="submit" name="submit" value="Add Command" class="btn btn-success">
43 </div>
44 </form>
```

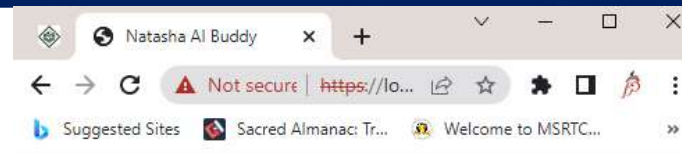
Line 1, Column 1

Spaces: 2

PHP

```
FOI  index.php  x  command.php  x
25  <style type="text/css">
26
27  </style>
28  </head>
29  <body>
30
31  <form method="post" action="" class="p-5" id="command">
32    <center><h3>Create New Command for Natasha</h3></center>
33    <div class="form-group">
34      <label class="form-label">Enter Command Here</label>
35      <input type="text" class="form-control" name="cmd" placeholder="Enter Your Command Here">
36    </div>
37    <div class="form-group">
38      <label class="form-label">Enter Command Action</label>
39      <input type="text" class="form-control" name="cmdu" placeholder="Enter Action on Command">
40    </div>
41    <div class="form-group">
42      <input type="submit" name="submit" value="Add Command" class="btn btn-success">
43    </div>
44  </form>
45  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>
46  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integrity="sha384-U02eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGA33DZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></script>
47  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-JjSmVgyd0p3pXB1rRibZUAYoIIy60rQ6VrjIEaEf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>
48  </body>
49  </html>
```


User Interface



Hii I am Natasha Click Me to Speak....



Database

Browser tabs: Natasha AI Buddy, localhost / 127.0.0.1 / command

Address bar: http://localhost/phpmyadmin/sql.php?db=command&table=command&pos=0

Suggested Sites: Sacred Almanac: Tr..., Welcome to MSRTC..., New folder, Rating - Deck Depa..., Gmail, YouTube, Maps, HR Crew a Human...

Server: 127.0.0.1 » Database: command » Table: command

Navigation: Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Triggers

+ Options

			id	command	uoc
<input type="checkbox"/>	Edit	Copy	4	open facebook	https://www.facebook.com/
<input type="checkbox"/>	Edit	Copy	5	open twitter	https://twitter.com/?lang=en
<input type="checkbox"/>	Edit	Copy	6	open whatsapp	https://web.whatsapp.com/
<input type="checkbox"/>	Edit	Copy	7	i want to read c	https://www.tutorialspoint.com/cprogramming/index....
<input type="checkbox"/>	Edit	Copy	8	i want to watch news in marathi	https://www.youtube.com/watch?v=Rs3GfkHRwXA
<input type="checkbox"/>	Edit	Copy	9	i want to watch news in hindi	https://www.youtube.com/watch?v=onpn1FS8cKw
<input type="checkbox"/>	Edit	Copy	10	i want to watch news in english	https://www.youtube.com/watch?v=WB-y7_ymPJ4
<input type="checkbox"/>	Edit	Copy	11	i want to read newspaper in marathi	http://epaper.lokmat.com/
<input type="checkbox"/>	Edit	Copy	12	i want to read newspaper in english	https://timesofindia.indiatimes.com/
<input type="checkbox"/>	Edit	Copy	13	i want to read newspaper in hindi	https://www.bhaskar.com/
<input type="checkbox"/>	Edit	Copy	14	i want to read computer fundamentals	https://www.tutorialspoint.com/computer_fundamenta...
<input type="checkbox"/>	Edit	Copy	15	i want to read digital electronics	https://www.javatpoint.com/digital-electronics
<input type="checkbox"/>	Edit	Copy	16	i want to read c programing	https://www.tutorialspoint.com/cprogramming/index....
<input type="checkbox"/>	Edit	Copy	17	i want to read microprocessor	https://www.tutorialspoint.com/microprocessor/micr...
<input type="checkbox"/>	Edit	Copy	18	i want to read datastructure	https://www.tutorialspoint.com/data_structures_alg...
<input type="checkbox"/>	Edit	Copy	19	i want to read operating system	https://www.tutorialspoint.com/operating_system/in...
<input type="checkbox"/>	Edit	Copy	20	i want to read unix	https://www.tutorialspoint.com/unix/index.htm
<input type="checkbox"/>	Edit	Copy	21	i want to read pc maintenance	https://doctorfeda.wordpress.com/students/pc-maint...

Console

Taskbar: Type here to search, 25°C, 23:00, ENG, screenrec

Add command



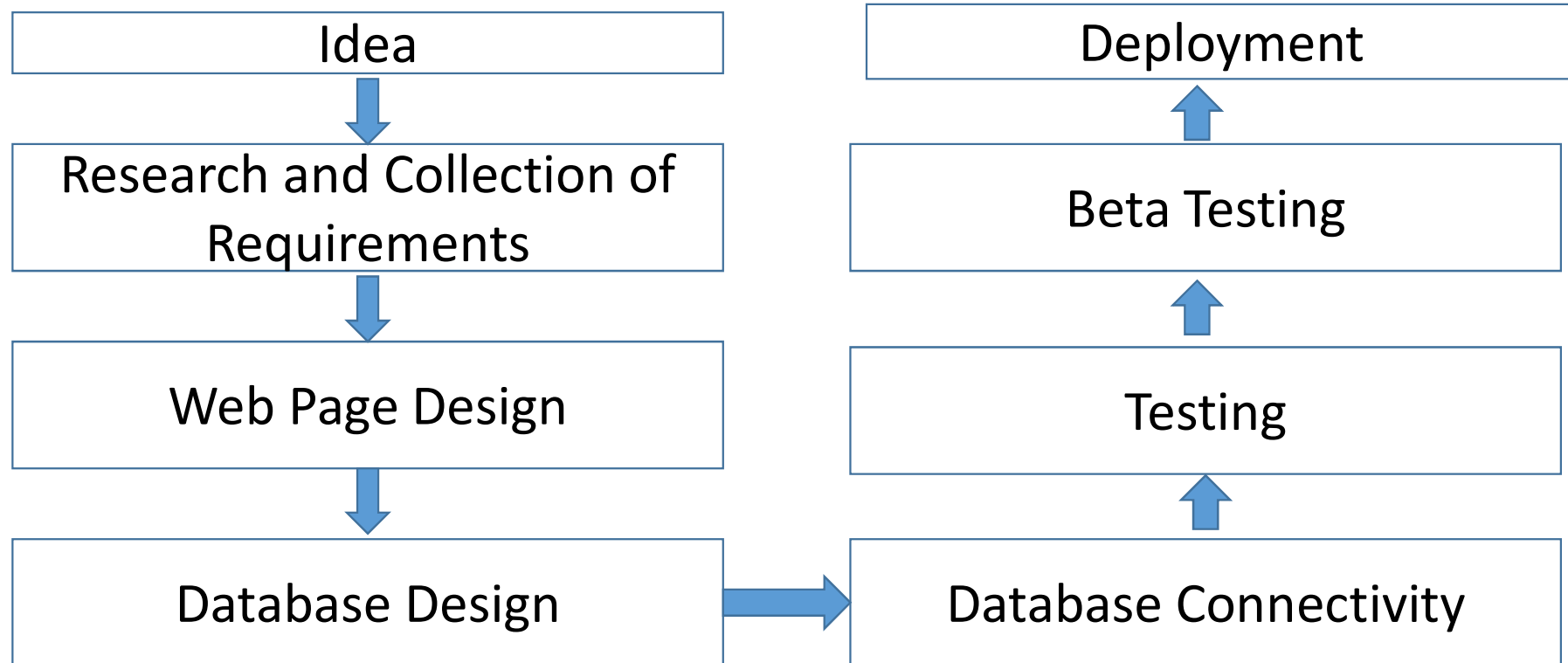
Create New Command for Natasha

Enter Command Here

Enter Command Action

Add Command

Flow of Project



Testing

Functionality



Usability



Interface



Performance

Future Scope

- User can Login and store their personal parameters in the project.
- We are looking forward to fill any form automatically with the help of that Voicebot

Refferances Used

- Bootstrap 4.0.0 – used for some css and javascript.
- Font Awesome - used for icons which helps us for better interface.
- W3Schools
- Stackoverflow.
- API



THANK YOU