• Predefined HTML code for voice_selfie_app.html

```
<html>
                                                          Bootstrap link
   <head>
   <title>My Selfie App</title>
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/css/bootstrap.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js"></script>
link href="style.css" rel="stylesheet">
                                                    Our stylesheet link
</head>
<body>
   <div class="container">
       <h1>Voice Selfie App
       </h1>
       <h4 style="color: ■red;">Please press allow as soon as popup comes. After you give a voice command</h4>
       <div class="form-group">
           <h3>Say "take my selfie"</h3>
           <label>Your voice output : </label>
       </div>
```

This HTML file has

Bootstrap links
our style.css file link
our main.js file link
and some html codes which you already know

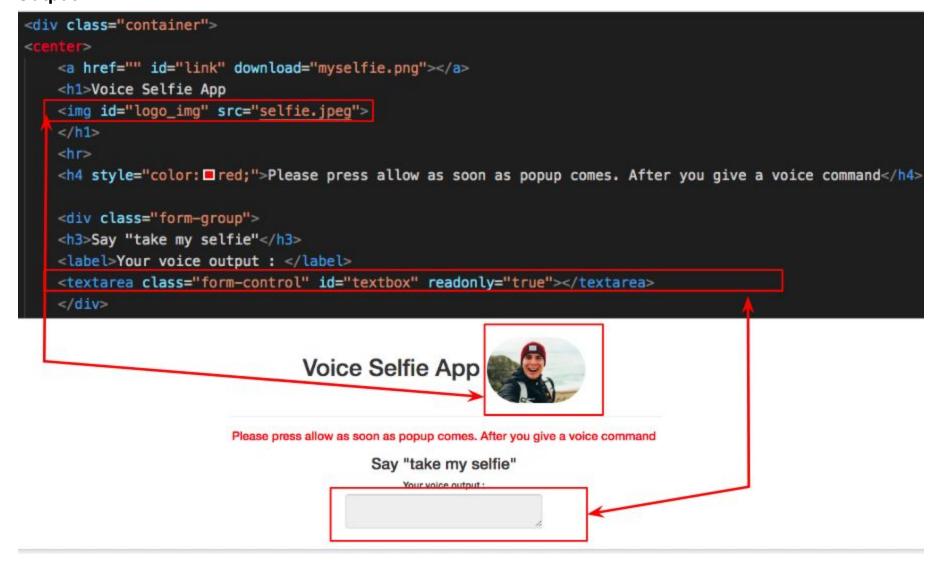
- After adding important HTML elements in voice_selfie_app.html like -
- Anchor tag
- Replacing the selfie image with your image
- Adding a textarea

```
Bootstrap link
   <title>My Selfie App</title>
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/css/bootstrap.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
<script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js"></script>
<link href="style.css" rel="stylesheet">

    Our stylesheet link

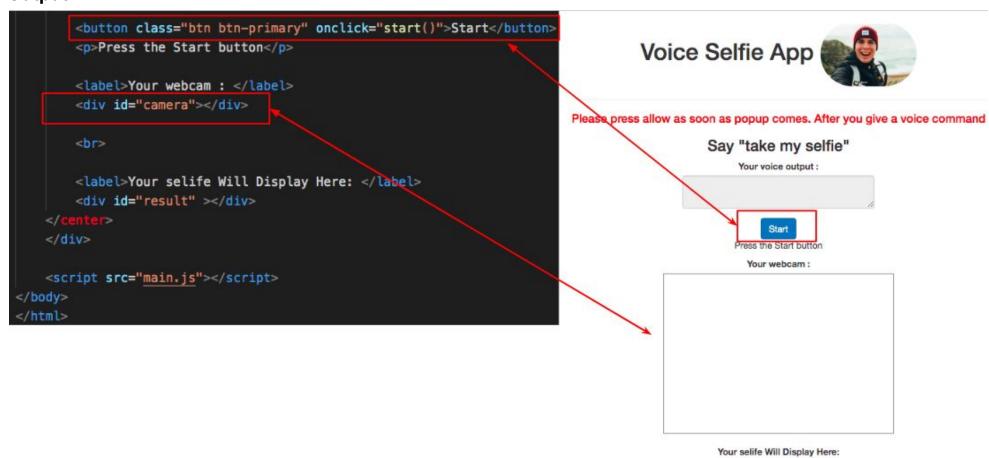
<script src="https://cdnjs.cloudflare.com/ajax/libs/webcamjs/1.0.26/webcam.js"></script>
<body>
   <div class="container">
     <h1>Voice Selfie App
      <h4 style="color: □ red;">Please press allow as soon as popup comes. After you give a voice command</h4>
      <div class="form-group">
      <h3>Say "take my selfie"</h3>
                                                                    Textarea
      <textarea class="form-control" id="textbox" readonly="true"></textarea>
```

Output -

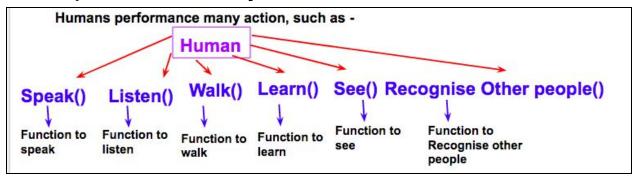


- Adding a start button
- Adding a div to hold the webcam
- Adding a div to hold the selfie taking by the webcam

Output-



• Explanation of new keyword



```
So if we want to create a new human with a name john, and ask him to speak.

So from the above image we can understand that human has all function to perform all actions. So for understanding let's say this human is an API and to create new human everytime we will use this API

Creating Human steps -

1. First we will create a new human with name John.

John = new human()

Name of the human

Calling the human API, as per the above explanation New keyword is use to create new human

2. And ask the john to speak

John.speak()

Name of the human

Function to perform action speak
```

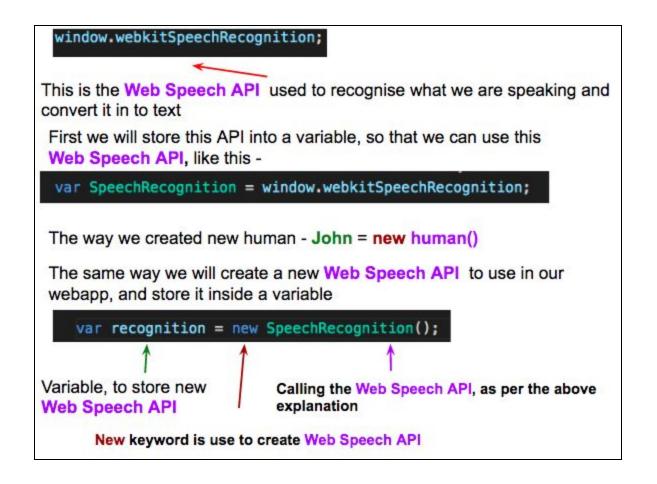
• JS code for speech to text -

```
var SpeechRecognition = window.webkitSpeechRecognition;
var recognition = new SpeechRecognition();
function start()
{
    document.getElementById("textbox").innerHTML = "";
    recognition.start();
}
recognition.onresult = function run (event) {
    console.log(event);
    var Content = event.results[0][0].transcript;
    console.log(Content);

    document.getElementById("textbox").innerHTML = Content;
}
```

• Explaining the first two line of the code

```
var SpeechRecognition = window.webkitSpeechRecognition;
var recognition = new SpeechRecognition();
```



- Explaining the start function from the speech to text code -
- → Now define the start() function -

```
function start()
{
```

→ Whenever the start button is pressed we want the textarea to be empty. For that we are updating textarea with an empty value

```
document.getElementById("textbox").innerHTML = "";
```

```
After creating new human with a name john

John = new human()

We asked john to speak, by calling speak() from human API

John.speak()

The same way after creating new Web Speech API and storing it inside a variable

var recognition = new SpeechRecognition();

We will call the start() function from Web Speech API.

recognition.start();

This start function is a predefined function of Web Speech API and it will convert your speech to text.
```

Output of console.log(event);

```
main.js:15
▼ SpeechRecognitionEvent 🗓
   bubbles: false
   cancelBubble: false
   cancelable: false
   composed: false
 ▶ currentTarget: SpeechRecognition {g...
   defaultPrevented: false
   emma: null
   eventPhase: 0
   interpretation: null
  isTrusted: true
 ▶ path: []
   resultIndex: 0
 ▼ results: SpeechRecognitionResultList
   ▼ 0: SpeechRecognitionResult
     ▼ 0: SpeechRecognitionAlternative
         confidence: 0.7236707806587219
       transcript: "how are you"

- __proto__: SpeechRecognitionAt...
       isFinal: true
       length: 1
     ▶ __proto__: SpeechRecognitionResu...
     length: 1
   __proto__: SpeechRecognitionResult...
   returnValue: true
 ▶ srcElement: SpeechRecognition {gram...
 ▶ target: SpeechRecognition {grammars...
   timeStamp: 913367.8750000035
   type: "result"
 ▶ __proto__: SpeechRecognitionEvent
```

Output of - document.getElementById("textbox").innerHTML = Content;

