

Weekly Progress Report

Text-to-Speech Web Extension using Python

Week: 2	Duration: 28/06/22 to 05/07/22	Group ID: M4	Guide: Siddharth Patel
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Group Members:

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Project Description:

Most of us have to go through tons of articles and snippets of books before we understand a topic. Reading sure is fun, but becomes very demanding after a point.

What if you had someone narrate these articles at your desired speed so that you could go through them faster or listen to them while working on something else?

Text-to-speech web extension can enable this and allow readers to go through the content better.

Date	Work done
28/06/22	Had a meeting with group members regarding the week flow and clarity of problem statement.
29/06/22	Referred the resources for making pop up.
30/06/22	Learnt how to make pop up with interaction by users.
01/07/22	Learnt how to make pop up with interaction by users.
02/07/22	Study on API in python.
04/07/22	Learnt how to call API in Python.
05/07/22	Aggregated work and had a weekly meeting with the whole group.

Research References:

➔ How to create popups ?

1. https://www.w3schools.com/howto/howto_js_popup.asp
2. https://www.w3schools.com/js/js_popup.asp
3. <https://youtu.be/AF6vGYIyV8M>

➔ How to integrate Python API ?

1. <https://realpython.com/api-integration-in-python/>
2. <https://www.dataquest.io/blog/python-api-tutorial/>

Proof of Work:

Popup in HTML, CSS, Javascript.

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1">
<style>
/* Popup container - can be anything you want */
.popup {
  position: relative;
  display: inline-block;
  cursor: pointer;
  -webkit-user-select: none;
  -moz-user-select: none;
  -ms-user-select: none;
  user-select: none;
}

/* The actual popup */
.popup .popuptext {
  visibility: hidden;
  width: 160px;
  background-color: #555;
  color: #fff;
  text-align: center;
  border-radius: 6px;
  padding: 8px 0;
  position: absolute;
  z-index: 1;
  bottom: 125%;
  left: 50%;
  margin-left: -80px;
}

/* Popup arrow */
```

```

/* Popup arrow */
.popup .popuptext::after {
  content: "";
  position: absolute;
  top: 100%;
  left: 50%;
  margin-left: -5px;
  border-width: 5px;
  border-style: solid;
  border-color: #555 transparent transparent transparent;
}

/* Toggle this class - hide and show the popup */
.popup .show {
  visibility: visible;
  -webkit-animation: fadeIn 1s;
  animation: fadeIn 1s;
}

/* Add animation (fade in the popup) */
@-webkit-keyframes fadeIn {
  from {opacity: 0;}
  to {opacity: 1;}
}

@keyframes fadeIn {
  from {opacity: 0;}
  to {opacity: 1;}
}
</style>
</head>
<body style="text-align:center">

```

```

<h2>Popup - Hi there! </h2>

<div class="popup" onclick="myFunction()">Click me to toggle the popup!
  <span class="popuptext" id="myPopup">Learning about popup!</span>
</div>

<script>
// When the user clicks on div, open the popup
function myFunction() {
  var popup = document.getElementById("myPopup");
  popup.classList.toggle("show");
}
</script>

</body>
</html>

```

Output :

Popup - Hi there!

Click me to toggle the popup!

Hi there!
Learning about popup!

Click me to toggle the popup!

API Integration in Python.

```
{
  "args": {
    "code": "4897163087a4b153b224"
  },
  "data": "",
  "files": {},
  "form": {},
  "headers": {
    "Accept": "text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image",
    "Accept-Encoding": "gzip, deflate, br",
    "Accept-Language": "en-GB,en;q=0.9",
    "Host": "httpbin.org",
    "Referer": "https://github.com/",
    "Sec-Fetch-Dest": "document",
    "Sec-Fetch-Mode": "navigate",
    "Sec-Fetch-Site": "cross-site",
    "Sec-Fetch-User": "?1",
    "Upgrade-Insecure-Requests": "1",
    "User-Agent": "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_6) AppleWebKit/537.36",
    "X-Amzn-Trace-Id": "Root=1-5fc2a19a-6aa207db14cafda4043272be"
  },
  "json": null,
  "method": "GET",
  "origin": "80.216.7.24",
  "url": "https://httpbin.org/anything?code=4897163087a4b153b224"
}
```

Plan for Week 3: Make a pop and basic HTML Backend.