

ITL LAB: EXPERIMENT 5

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CLASS: TE IT

BATCH: D

AIM: Create a web mashup of web services using open source framework.

There is a lot of information available on internet, so using web mashup, we have to gather this information from different sources, apply logic such that the most important information from this bulk amount of data will be displayed to user, refer this link for ideas about developing web mashups <https://www.programmableweb.com/category/indian/mashup>.

API USED:

1. <https://www.googleapis.com/youtube/v3>
2. <https://api.lyrics.ovh>

CODE:

JavaScript

```
const form = document.getElementById('form')
const search = document.getElementById('search')
const result = document.getElementById('result')
gapi.load("client", loadClient);
// API - Youtube V3
function loadClient() {
  gapi.client.setApiKey("AIzaSyDFX3Bku6n14Mrhv9RRt1UvI_AJrBESGRw");
  return
  gapi.client.load("https://www.googleapis.com/discovery/v1/apis/youtube/v3/rest")
    .then(function() {
      // alert("GAPI client loaded for API");
      console.log("GAPI client loaded for API");
    },
    function(err) {
      // alert("There is nothing to load");
      console.error("Error loading GAPI client for API", err);
    });
};

/// api URL ///
const apiURL = 'https://api.lyrics.ovh';

form.addEventListener('submit', e => {
```

```

    e.preventDefault();
    searchValue = search.value.trim();

    if (!searchValue) {
        alert("There is nothing to search")
    } else {
        searchSong(searchValue)
    }
})

// Key up event listner
const searchOnKeyUp = () => {
    searchValue = search.value.trim();
    searchSong(searchValue)
}

//search song
async function searchSong(searchValue) {
    const searchResult = await fetch(`${apiURL}/suggest/${searchValue}`)
    const data = await searchResult.json();

    console.log(data)
    showData(data);
}

//display final result in DOM
function showData(data) {

    result.innerHTML = `

    <ul class="song-list">
        ${data.data
            .map(song=> `<li>
                <div>
                    <strong style="font-family: 'Roboto Condensed', sans-serif;">${song.title}</strong> by ${song.artist.name}
                </div>
                <span data-artist="${song.artist.name}" data-songtitle="${song.title}"> Lyrics</span>
                </li>`
            )
            .join('')}
    </ul>
    `;
    document.getElementById('video').innerHTML = ''

}

//event listener in get lyrics button
result.addEventListener('click', e=>{
    const clickedElement = e.target;

    //checking clicked elemet is button or not
    if (clickedElement.tagName === 'SPAN'){

```



```

        listItems.forEach(item => {
            const videoId = item.id.videoId;
            const videoTitle = item.snippet.title;
            output += `
                <li><a data-fancybox
href="https://www.youtube.com/watch?v=${videoId}"></li>
            `;
            // console.log("http://i3.ytimg.com/vi/${videoId}/hqdefault.jpg");
        });
        output += '</ul>';

        // Output list
        document.getElementById('video').innerHTML = output
    }
},
function(err) { console.error("Execute error", err); });
}

```

HTML

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta http-equiv="X-UA-Compatible" content="ie=edge">
    <title>Lyrics Finder</title>
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/fancybox/3.5.7/jquery.fancybox.css" />
    <link rel="stylesheet" href="css/style.css">
</head>

<body>
    <header>
        <div class="container">
            <h1>Search Lyrics</h1>
            <form id="form" autocomplete="on">
                <input type="text" id="search" placeholder="Enter artist name or song
title...">
                <button>Search</button>
            </form>
        </div>

    </header>
    <section id="video"></section>
    <section class="result" id="result">
        <br>
        <h1>Results will be displayed here... </h1>
        <br>
    </section>

```

```

</section>

<script src="https://apis.google.com/js/api.js"></script>
<script src="//code.jquery.com/jquery-3.2.1.min.js"></script>
<script
src="https://cdnjs.cloudflare.com/ajax/libs/fancybox/3.5.7/jquery.fancybox.js"></scrip
t>
<script src="js/main.js"></script>
</body>

</html>

```

CSS

```

@import url('https://fonts.googleapis.com/css?family=Gochi+Hand&display=swap');
@import
url('https://fonts.googleapis.com/css?family=Roboto+Condensed:400,700&display=swap');
@import url('https://fonts.googleapis.com/css2?family=Style+Script&display=swap');
* {
  padding: 0;
  margin: 0;
  box-sizing: border-box;
}

body {
  font-family: 'Gochi Hand', cursive;
  background: linear-gradient(to left, rgb(40, 40, 40), rgb(40, 40, 40))
}

header {
  overflow: hidden;
  padding: 30px;
  background: linear-gradient(to right, rgba(255, 0, 221, 0.65), rgba(128, 13, 223,
0.65)), url(../img/1.png);
  height: 90vh;
  width: 100vw;
  border: none;
  background-repeat: no-repeat;
  background-position: center;
  background-size: cover;
  position: relative;
  /* clip-path: polygon(2% 11%, 3% 7%, 96% 16%, 96% 27%, 91% 79%, 10% 93%, 8% 89%);
*/
  position: relative;
}

.container {
  position: absolute;
  color: white;
  font-size: 22px;
  top: 40%;

```

```
    left: 50%;
    transform: translate(-50%, -50%);
}

.container h1 {
    margin-bottom: 50px;
    letter-spacing: 2px;
    text-align: center;
}

form {
    position: relative;
    display: flex;
    width: 500px;
}

input {
    width: 100%;
    max-width: 100%;
    height: 45px;
    padding: 15px 30px;
    border-radius: 50px;
    border: none;
    outline: none;
}

button {
    width: 100px;
    max-width: 100%;
    /* height: 40px; */
    background: #9E2092;
    color: white;
    border-radius: 50px;
    border: none;
    position: absolute;
    right: 2px;
    bottom: 2px;
    top: 2px;
    font-weight: 600;
    outline: none;
}

button:hover {
    transform: scale(0.95);
}

li {
    list-style: none;
}

.result {
    color: white;
    text-align: center;
    font-family: 'Style Script', cursive;
```

```

margin-top: 20px;
position: relative;
display: block;
}

.result.p {
  font-family: 'Roboto Condensed', sans-serif;
}

#video {
  position: absolute;
  left: 50%;
  transform: translateX(-50%);
  display: block;
  margin-bottom: 50px;
  color: rgb(255, 230, 4);
  color: white;
  text-align: center;
  font-family: 'Style Script', cursive;
}

.song-list {
  list-style: none;
  display: flex;
  flex-direction: column;
  position: absolute;
  left: 50%;
  transform: translate(-50%, 0);
  background: linear-gradient(to left, rgb(40, 40, 40), rgb(40, 40, 40))
}

.song-list li {
  margin-bottom: 20px;
  width: 500px;
  justify-content: space-evenly;
  letter-spacing: 1px;
  font-weight: 500;
  font-size: 18px;
  text-decoration: underline;
  text-decoration-color: rgb(255, 0, 200);
  position: relative;
  /* line-height: 30px; */
}

.song-list li::after {
  content: "";
  position: absolute;
  right: -20px;
  left: -20px;
  bottom: -4px;
  height: 3px;
  background: rgb(255, 238, 0);
  display: inline-block;
}

```

```
.song-list li div {
  float: left;
}

.song-list li span {
  float: right;
  background-color: #9E2092;
  border: 0;
  font-size: 12px;
  border-radius: 10px;
  color: #fff;
  cursor: pointer;
  font-weight: 400;
  padding: 4px 10px;
  text-transform: capitalize;
}

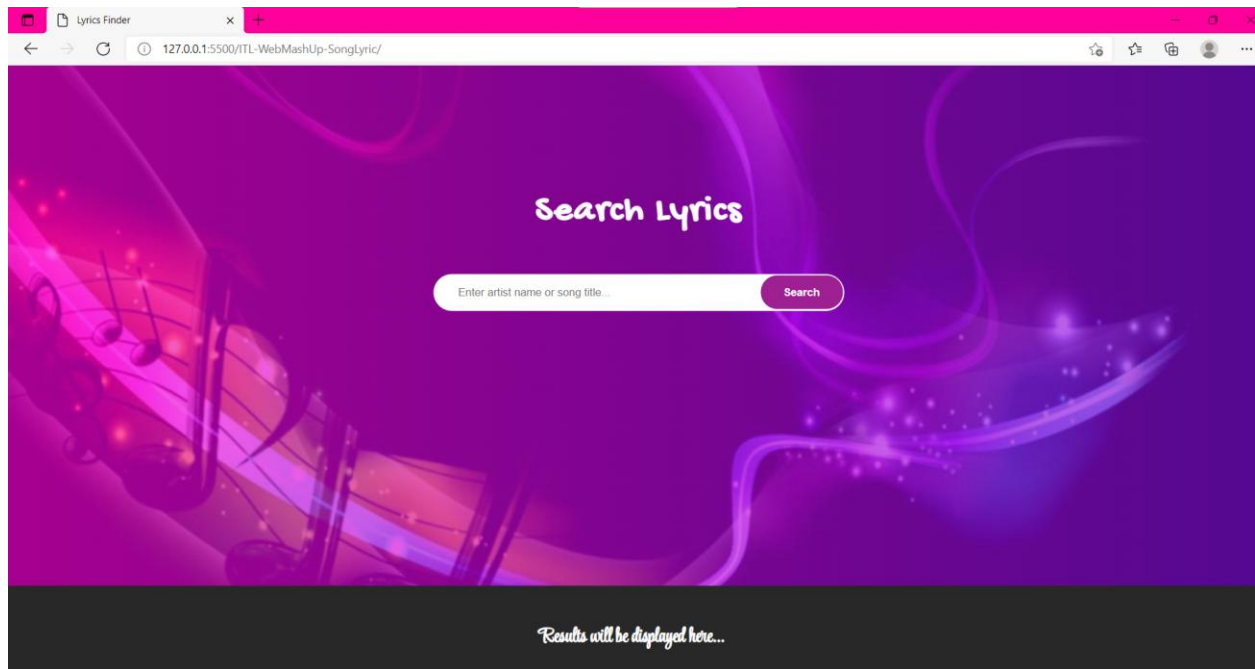
.btn {
  background-color: rgb(255, 251, 21);
  margin: 0 auto;
  border: 0;
  font-size: 14px;
  border-radius: 10px;
  color: rgb(199, 193, 193);
  cursor: pointer;
  font-weight: 400;
  padding: 6px 20px;
  width: 100px;
  text-transform: capitalize;
}

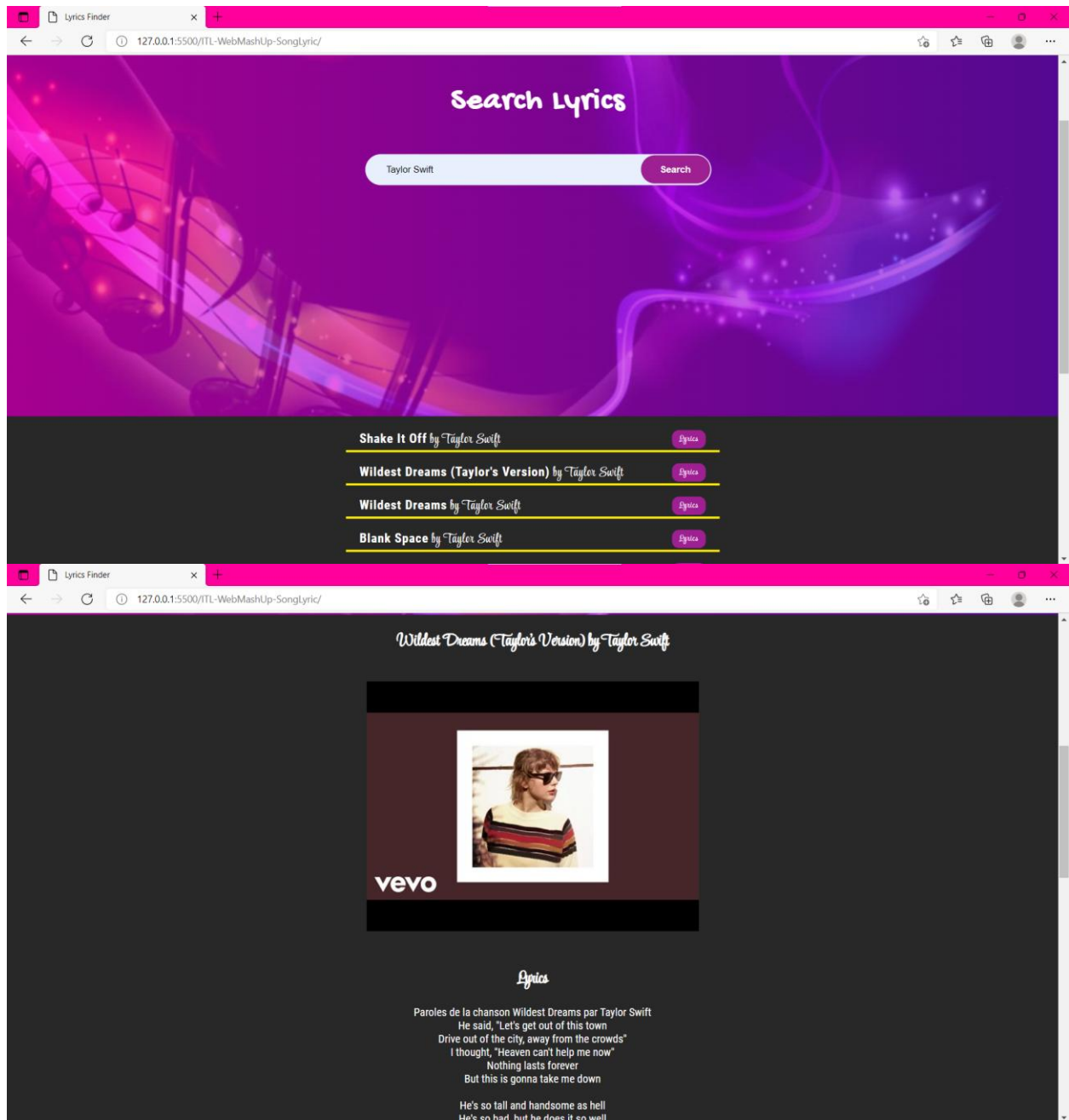
@media only screen and (max-width: 800px) {
  header {
    height: 70vh;
    width: 95%vw;
  }
  .container {
    font-size: 20px;
  }
  form {
    max-width: 300px;
  }
  input {
    width: 100%;
    height: 40px;
    padding: 12px 20px;
  }
  button {
    width: 80px;
    max-width: 100%;
  }
  .song-list li {
    margin-bottom: 15px;
  }
}
```



```
max-width: 300px;  
letter-spacing: 0.5px;  
font-size: 17px;  
}  
}
```

OUTPUT :





CONCLUSION: Hence, I was able to implement web mashup using 2 Apis for my case study.