Independent Study Presentation

Topic: YouTube API Integration

Research & Implement & Present

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Prerequisite

```
Using google api.js
```

```
script(src="https://apis.google.com/js/api.js")
```

API key obtained from google cloud platform

• AIzaSyDDxuyWE0GgPlp_RG6iYZvg27nF361RJ0U

Function to connect YouTube API

```
    function loadClient() {
    gapi.client.setApiKey("AIzaSyDDxuyWE0GgPlp_RG6iYZvg27nF361RJ0U");
    return
gapi.client.load("https://www.googleapis.com/discovery/v1/apis/youtube/v3/rest")
    .then(function () { console.log("GAPI client loaded for API"); },
    function (err) { console.error("Error loading GAPI client for API", err); });
    }
```

Set up search setting

```
var searchSettings = {
          "part": 'snippet',
          "type": 'video',
          "order": 'relevance',
          "maxResults": max,
          "q": keyword
    };
    Sending request
    gapi.client.youtube.search.list(searchSettings)
```

Organize Response

```
result.forEach(video => {

    //Video attr

var ID = video.id.videoId;
var title = video.snippet.title;

    //Set Division

• let imageBox = $('<div>');
imageBox.attr('class', 'box')

    //Set link

let a=$('<a>')
a.attr('href',
  "https://www.youtube.com/watch?v=" + ID
  );
a.attr('data-fancybox','')
```

```
    //Video thumbnail

• let thumbnail = $('<img>');
 thumbnail.attr('src',
"http://i3.ytimg.com/vi/" + ID +
"/hqdefault.jpg")
thumbnail.attr('id', 'thumbnail')

    a.append(thumbnail)

    //Video title

• let label = $('<span>');

    label.append(document.createTextNode(title)

    //Append list to Div

  imageBox.append(a)
  imageBox.append(label)

    videoDiv.append(imageBox)

• })
```

Working Demo (/guide)

