

Creation	SPRINT 3
Team ID:	PNT2022TMID06749
Project Name	News Tracker Application

SPRINT-3

Category wise filter

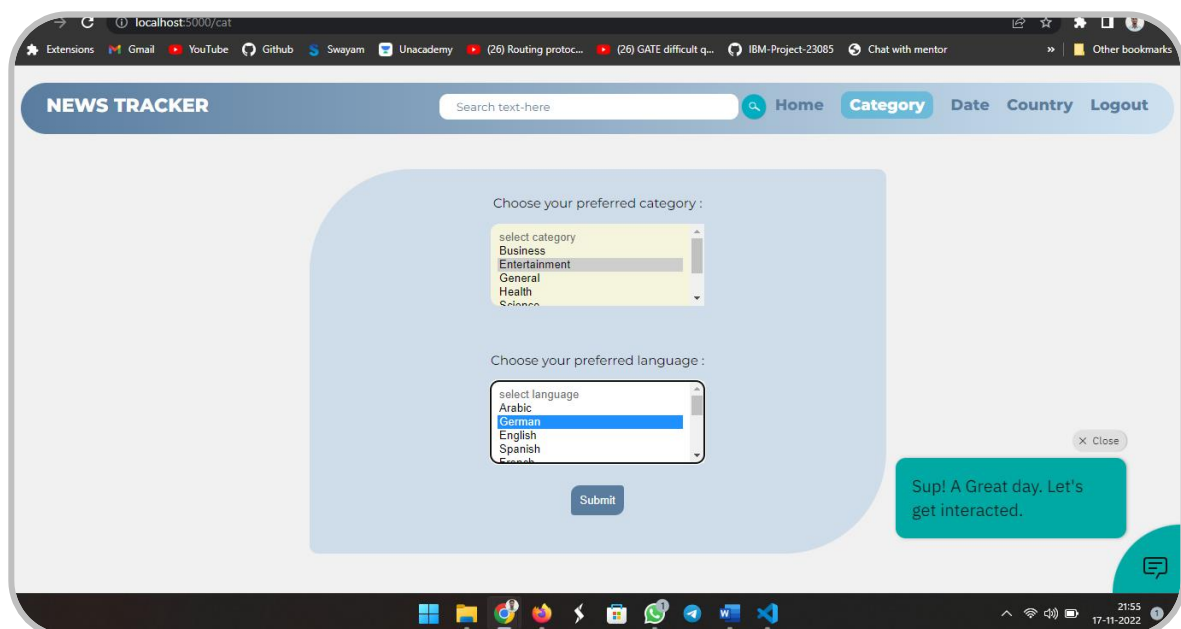
A wide range of category and language preference can be submitted for a better and improvised news feed and consistent news.

The categories are:

- Technology
- Sports
- Science
- Health
- General
- Entertainment
- Business

The wide range of languages are:

- | | | |
|-----------|-----------|------------------|
| • Arabic | German | Spanish |
| • French | Hebrew | Italian |
| • Dutch | Norwegian | Portuguese |
| • Russian | Swedish | Pakistan related |
| • Chinese | English | |





Category Code: <app.py>

```
@app.route('/cat')
def cat():
    return render_template("cat_list.html")

@app.route('/category', methods=["POST", "GET"])
def category():
    if request.method == 'POST':
        try:
            ida=request.form['category']
            idb=request.form['language']
            # id="in"
            # print("category: "+ida+" "+ "language: "+idb)

            topheadlines=newsapi.get_top_headlines(category=ida, language=idb)

            # from_param="2022-11-08",to="2022-11-09",page=2,
            articles=topheadlines['articles']
            desc=[]
            news=[]
            img=[]
            timing=[]
            more=[]
            auth=[]
            for i in range(len(articles)):
                myarticles=articles[i]

                news.append(myarticles['title'])
                desc.append(myarticles['description'])
                img.append(myarticles['urlToImage'])
```

```

        x=myarticles['publishedAt']
        timing.append(x[0:10]+" @ "+x[11:16])
        more.append(myarticles['url'])
        au=myarticles['author']
        if au==None or au[0:3]=="htt":
            au="Media News"
        auth.append(au)
    myList=zip(desc,news,img,timing,more,auth)

    topsources=newsapi.get_sources(category=ida.lower(),language=idb)

    articles=topsources['sources']
    desc=[]#category
    name=[]
    url=[]
    chan=[]
    # timing=[]
    coun=[]
    for i in range(len(articles)):
        myarticles=articles[i]
        chan.append(myarticles['id'])
        name.append(myarticles['name'])
        desc.append(myarticles['category'].capitalize())
        url.append(myarticles['url'])
        coun.append(myarticles['country'].upper())

    mySources=zip(name,desc,url,coun,chan)

    return
render_template('dash_category.html',context=myList,channels=mySources,ida=ida.upper(),idb=idb.upper())
except Exception as e:
    print("Exception : "+str(e))

```

Code for category list : [HTML file]:

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

<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Category Wise</title>
  <link rel="stylesheet" href="{
url_for('static',filename='styles/dashstyle.css') }}">
  <link rel="stylesheet" href="{
url_for('static',filename='styles/cardstyle.css') }}">
  <link rel="stylesheet" href="/static/styles/dashstyle.css">
  <link rel="stylesheet" href="/static/styles/cardstyle.css">
</head>

<body>
  <div class="nav">
    <input type="checkbox" id="nav-check">
    <div class="nav-header">
      <div class="nav-title">
        NEWS TRACKER
      </div>
    </div>
    <div class="nav-btn">
      <label for="nav-check">
        <span></span>
        <span></span>
        <span></span>
      </label>
    </div>

    <div class="nav-links">
      <form action="/search" method="post">
        <input name="search" id="search" type="text"
placeholder="Search text-here">
        <input type="image" name="submit" style="position:
absolute;margin-left: 3px;" width="30px" height="30px"
src="data:image/png;base64,iVBORw0KGgoAAAANSUheUgAAA1EAAAJJCAYAAACK
/AR0IQZF74B+AAAAAE1FTkSuQmCC" ></button>
      </form>
    </div>
    <div class="links-holder">
      <a href="/dash" target="_blank">Home</a>
      <a href="/cat" target="_blank" style=" background-color:
rgba(23, 168, 212, 0.467);
```

```

        border-radius: 10px;
        padding: 5px;
        padding-left: 10px;
        padding-right: 10px;
        color: white;">Category</a>
        <a href="/dat" target="_blank">Date</a>
        <a href="/coun" target="_blank">Country</a>
        <a href="/" target="_blank">Logout</a>

    </div>
</div>
<div style="text-align: center; background-color: #95b9dc5e ;
width: 50%;height: 450px; margin:3% 25%;border-radius: 120px 10px;" >
    <form action="/category" method="post">
        <p style="font-size: 15px;padding-top: 30px;">Choose your
preferred category : </p>
        <select id="category" name="category" size="5"
style="width:250px ; border: none; border-radius: 10px;padding:
8px;background-color: beige;" required>
            <option disabled>select category</option>
            <option value="business">Business</option>
            <option value="entertainment">Entertainment</option>
            <option value="general">General</option>
            <option value="health">Health</option>
            <option value="science">Science</option>
            <option value="sports">Sports</option>
            <option value="technology">Technology</option>
        </select><br><br><br><br>

        <p style="font-size: 15px;padding-top: 0;">Choose your preferred
language : </p>
        <select id="language" name="language" size="5"
style="width:250px ; border: none; border-radius: 10px;padding: 8px;"
required>
            <option disabled>select language</option>
            <option value="ar">Arabic</option>
            <option value="de">German</option>
            <option value="en">English</option>
            <option value="es">Spanish</option>
            <option value="fr">French</option>
            <option value="he">Hebrew</option>
            <option value="it">Italian</option>
            <option value="nl">Dutch</option>
            <option value="no">Norwegian</option>
            <option value="pt">Portuguese</option>
            <option value="ru">Russian</option>
            <option value="sv">Swedish</option>
            <option value="ud">Pakistan related</option>

```

```
        <option value="zh">Chinese</option>
    </select><br><br><br>
    <input type="submit" style="background-color: #5A7D9F ; border-
radius: 10px 4px; border: 2px solid #5A7D9F; color: white; padding:
8px;">
    </form>
</div>
```

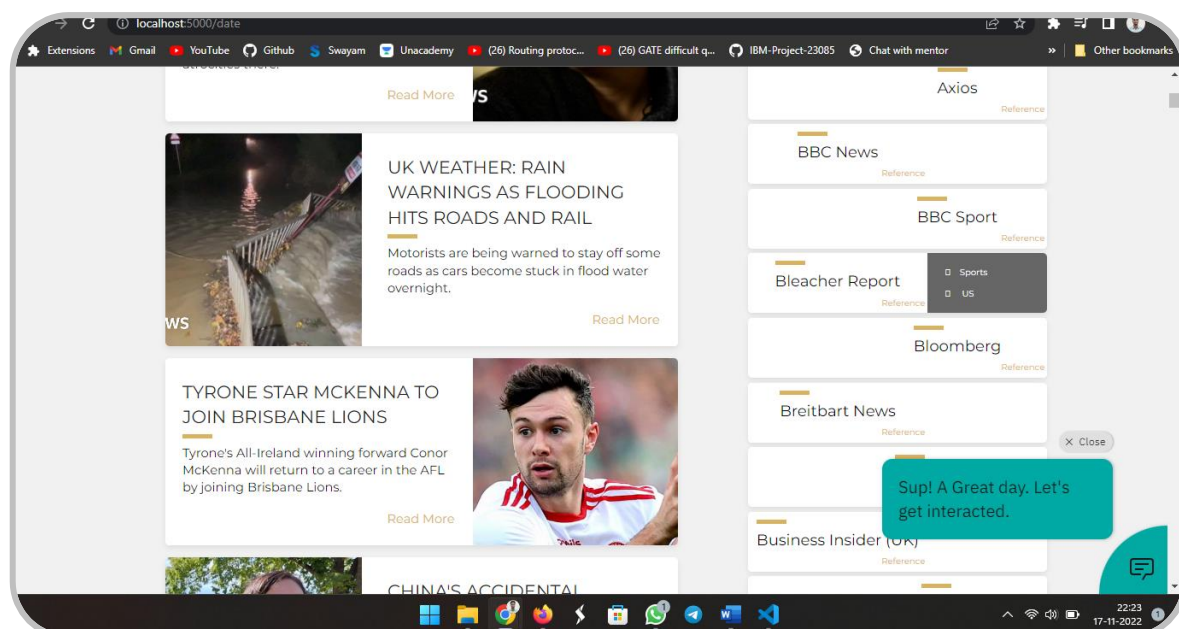
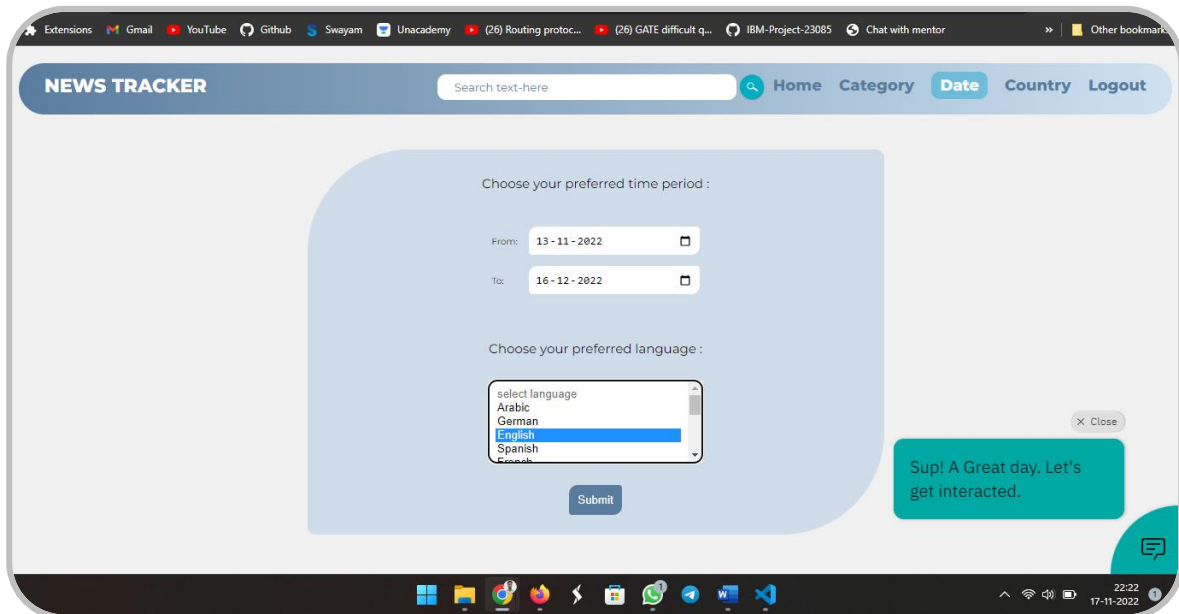
```
</body>
```

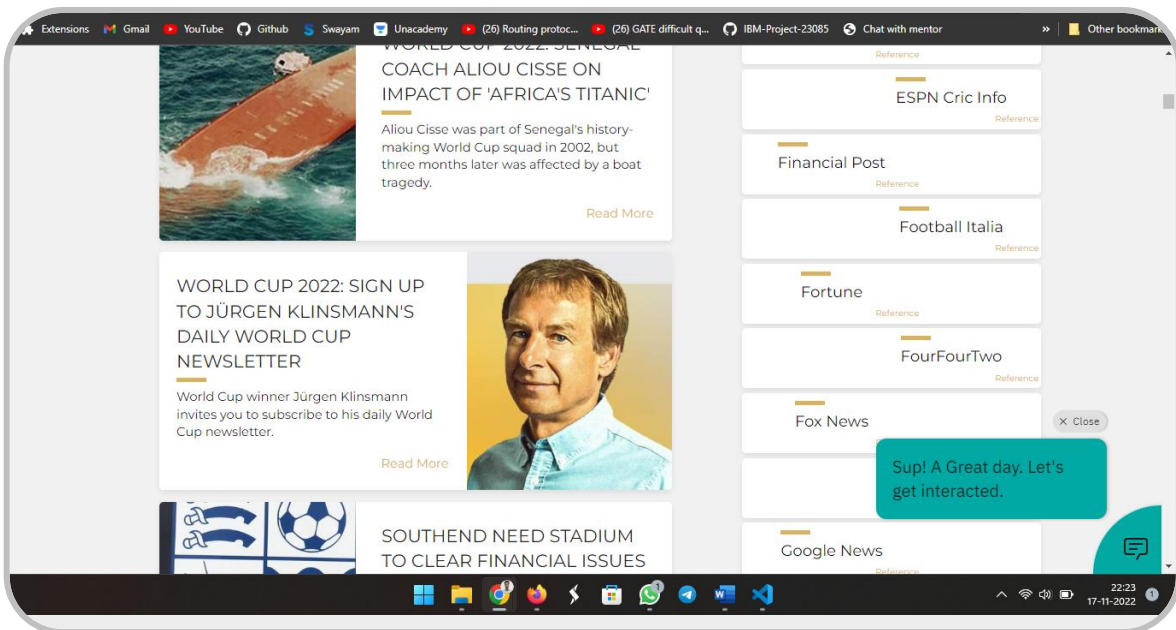
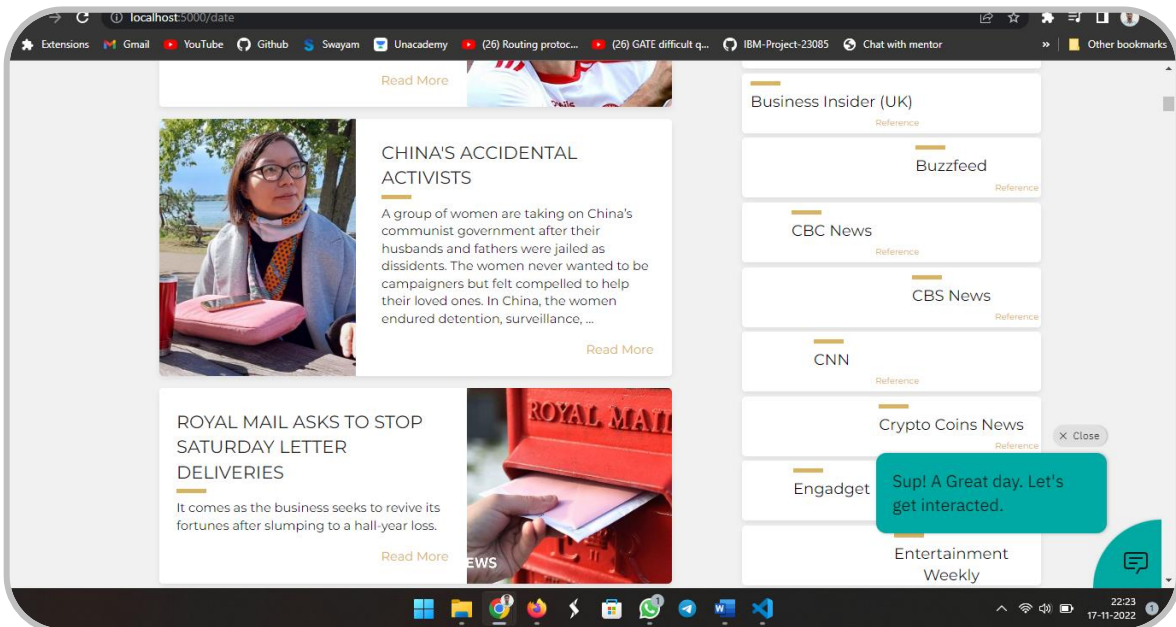
```
<script>
```

```
    window.watsonAssistantChatOptions = {
        integrationID: "ec46d036-ef12-443f-b77e-a6c9f7d2cbbe",
        region: "jp-tok", // The region of integration is hosted in.
        serviceInstanceID: "0c9afe01-34c8-460a-a9cf-d56f7700b390", //
The ID of service instance.
        onLoad: function(instance) { instance.render(); }
    };
    setTimeout(function(){
        const t=document.createElement('script');
        t.src="https://web-
chat.global.assistant.watson.appdomain.cloud/versions/" +
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
"/WatsonAssistantChatEntry.js";
        document.head.appendChild(t);
    });
</script>
</html>
```

Period of time

There is always a need to check for yesterdays or a particular day's news for some peculiar reason. For this purpose, this application is loaded with date wise news filter for a better news feed and fluency.





Code for time period based news: <app.py>

```
@app.route('/dat')
def dat():
    return render_template("date_list.html")

@app.route('/date', methods=["POST", "GET"])
def date():
    if request.method == 'POST':
        try:
            from_dat = request.form['from']
            to = request.form['to']
            lan = request.form['language']

            # id="in"
            # print("Date: "+from_dat+" : "+to)
```



```

        topheadlines=newsapi.get_everything(from_param=from_dat,to=to
,page=2,language=lan,sources='bbc-news,the-verge',)
        # from_param="2022-11-08",to="2022-11-09",page=2,
        articles=topheadlines['articles']
        desc=[]
        news=[]
        img=[]
        timing=[]
        more=[]
        auth=[]
        for i in range(len(articles)):
            myarticles=articles[i]

            news.append(myarticles['title'])
            desc.append(myarticles['description'])
            img.append(myarticles['urlToImage'])
            x=myarticles['publishedAt']
            timing.append(x[0:10]+" @ "+x[11:16])
            more.append(myarticles['url'])
            au=myarticles['author']
            if au==None or au[0:3]=="htt":
                au="Media News"
            auth.append(au)
        myList=zip(desc,news,img,timing,more,auth)
        # print("Above source")

        topsources=newsapi.get_sources(language=lan)
        articles=topsources['sources']
        desc=[]#category
        name=[]
        url=[]
        chan=[]
        # timing=[]
        coun=[]
        for i in range(len(articles)):
            myarticles=articles[i]
            chan.append(myarticles['id'])
            name.append(myarticles['name'])
            desc.append(myarticles['category'].capitalize())
            url.append(myarticles['url'])
            coun.append(myarticles['country'].upper())

        mySources=zip(name,desc,url,coun,chan)

        return
    render_template('dash_date.html',context=myList,channels=mySources,ida=fr
om_dat,idb=to,lan=lan.upper())
    except Exception as e:

```

```
print("Exception : "+str(e))
```

HTML file for time period input:

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

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-
scale=1.0">
    <title>Date Wise</title>
    <link rel="stylesheet" href="{{
url_for('static',filename='styles/dashstyle.css') }}">
    <link rel="stylesheet" href="{{
url_for('static',filename='styles/cardstyle.css') }}">
    <link rel="stylesheet" href="/static/styles/dashstyle.css">
    <link rel="stylesheet" href="/static/styles/cardstyle.css">
</head>

<body>
    <div class="nav">
        <input type="checkbox" id="nav-check">
        <div class="nav-header">
            <div class="nav-title">
                NEWS TRACKER
            </div>
        </div>
        <div class="nav-btn">
            <label for="nav-check">
                <span></span>
                <span></span>
                <span></span>
            </label>
        </div>

        <div class="nav-links">
            <form action="/search" method="post">
                <input name="search" id="search" type="text"
placeholder="Search text-here">
                <input type="image" name="submit" style="position:
absolute;margin-left: 3px;" width="30px" height="30px"
src="data:image/png;base64,iVBORw0KGgoAAAANSUHEUgAAAlEAAAJJCAYAAACK
/AR0IQZFn74B+AAAAAE1FTkSuQmCC" "></button>
            </form>
        </div>
        <div class="links-holder">
```

```

        <a href="/dash" target="_blank">Home</a>
        <a href="/cat" target="_blank">Category</a>
        <a href="/dat" target="_blank" style=" background-color:
rgba(23, 168, 212, 0.467);
border-radius: 10px;
padding: 5px;
padding-left: 10px;
padding-right: 10px;
color: white;">Date</a>
        <a href="/coun" target="_blank">Country</a>
        <a href="/" target="_blank">Logout</a>

    </div>
</div>
<div style="text-align: center; background-color: #95b9dc5e ; width:
50%;height: 450px; margin:3% 25%;border-radius: 120px 10px;" >
    <form action="/date" method="post">
        <p style="font-size: 15px;padding-top: 30px;">Choose your preferred
time period : </p><br><br>
        From: &nbsp;<input type="date" name="from" value="2018-12-17"
style="width:200px ; border: none; border-radius: 10px 4px;padding: 8px;"
required><br><br>
        To: &nbsp;&nbsp;&nbsp;&nbsp;<input name="to" type="date"
value="2018-12-18" style="width:200px ; border: none; border-radius: 10px
4px;padding: 8px;" required><br><br><br><br>
        <p style="font-size: 15px;padding-top: 0;">Choose your preferred
language : </p><br>
        <select id="language" name="language" size="5" style="width:250px ;
border: none; border-radius: 10px;padding: 8px;" required>
            <option disabled>select language</option>
            <option value="ar">Arabic</option>
            <option value="de">German</option>
            <option value="en">English</option>
            <option value="es">Spanish</option>
            <option value="fr">French</option>
            <option value="he">Hebrew</option>
            <option value="it">Italian</option>
            <option value="nl">Dutch</option>
            <option value="no">Norwegian</option>
            <option value="pt">Portuguese</option>
            <option value="ru">Russian</option>
            <option value="sv">Swedish</option>
            <option value="ud">Pakistan related</option>
            <option value="zh">Chinese</option>
        </select><br><br><br>
        <input type="submit" style="background-color: #5A7D9F ; border-
radius: 10px 4px; border: 2px solid #5A7D9F; color: white; padding:
8px;">

```

```
</form>
</div>
```

```
</body>
```

```
<script>
```

```
    window.watsonAssistantChatOptions = {
```

```
        integrationID: "ec46d036-ef12-443f-b77e-a6c9f7d2cbbe",
```

```
        region: "jp-tok", // The region of integration is hosted in.
```

```
        serviceInstanceID: "0c9afe01-34c8-460a-a9cf-d56f7700b390", // The
ID of service instance.
```

```
        onLoad: function(instance) { instance.render(); }
```

```
    };
```

```
    setTimeout(function(){
```

```
        const t=document.createElement('script');
```

```
        t.src="https://web-
```

```
chat.global.assistant.watson.appdomain.cloud/versions/" +
```

```
(window.watsonAssistantChatOptions.clientVersion || 'latest') +
```

```
"/WatsonAssistantChatEntry.js";
```

```
        document.head.appendChild(t);
```

```
    });
```

```
</script>
```

```
</html>
```