Documentation of Dynamic Youtube video application

- ***If you want to fetch your YOUTUBE CHANNEL video in your Mobile application and make a IONIC Youtube Video app.***

Follow the following steps :-

- Install the IONIC in your windows.
  1. Create an IOINC app by using cmd
     Eg :- Open cmd prmt and **type:- ionic start**
     If will ask for project name give as you like
     → Tabs ..
     → Blank..
     → Side Menu..

     Recommended: - Tabs.

Set Path and open your project.

Select as per your Requirement.

- Install ionic Native **YOUTUBE VIDEO PLAYER** Plugin
  Copy and paste these:-

```
→       ionic cordova plugin add cordova-plugin-youtube-video-player

→       npm install --save @ionic-native/youtube-video-player
```

Now make **PROVIDER** named :-"Youtube"

Copy and Paste this line in cmd

→ ionic g provider

"Make sure for youtube video should be in your playlist"

You need your youtube **channel id** , **API key**

Now to create dynamic app you need an **API KEY.**

To create an API KEY go to **Google cloud Platform.** And create your API.

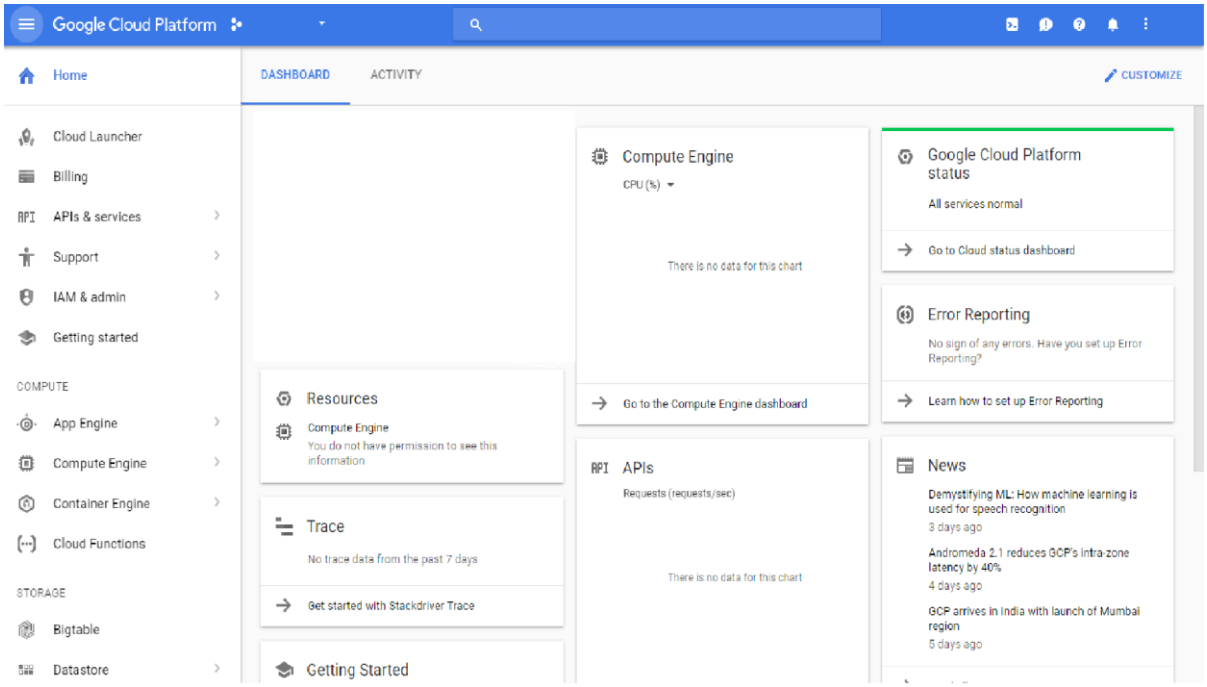
=======Steps to create your API========

- **Steps to Create API :-**
  1. Search **Google Cloud Platform** → Google Cloud platform

HERE is the link to go directly :-
https://accounts.google.com/signin/v2/identifier?service=cloudconsole&passive=1209600&osid=1&continue=https%3A%2F%2Fconsole.cloud.google.com%2F%3Fref%3Dhttps%3A%2F%2Fwww.google.co.in%2F&followup=https%3A%2F%2Fconsole.cloud.google.com%2F%3Fref%3Dhttps%3A%2F%2Fwww.google.co.in%2F&flowName=GlifWebSignIn&flowEntry=ServiceLogin

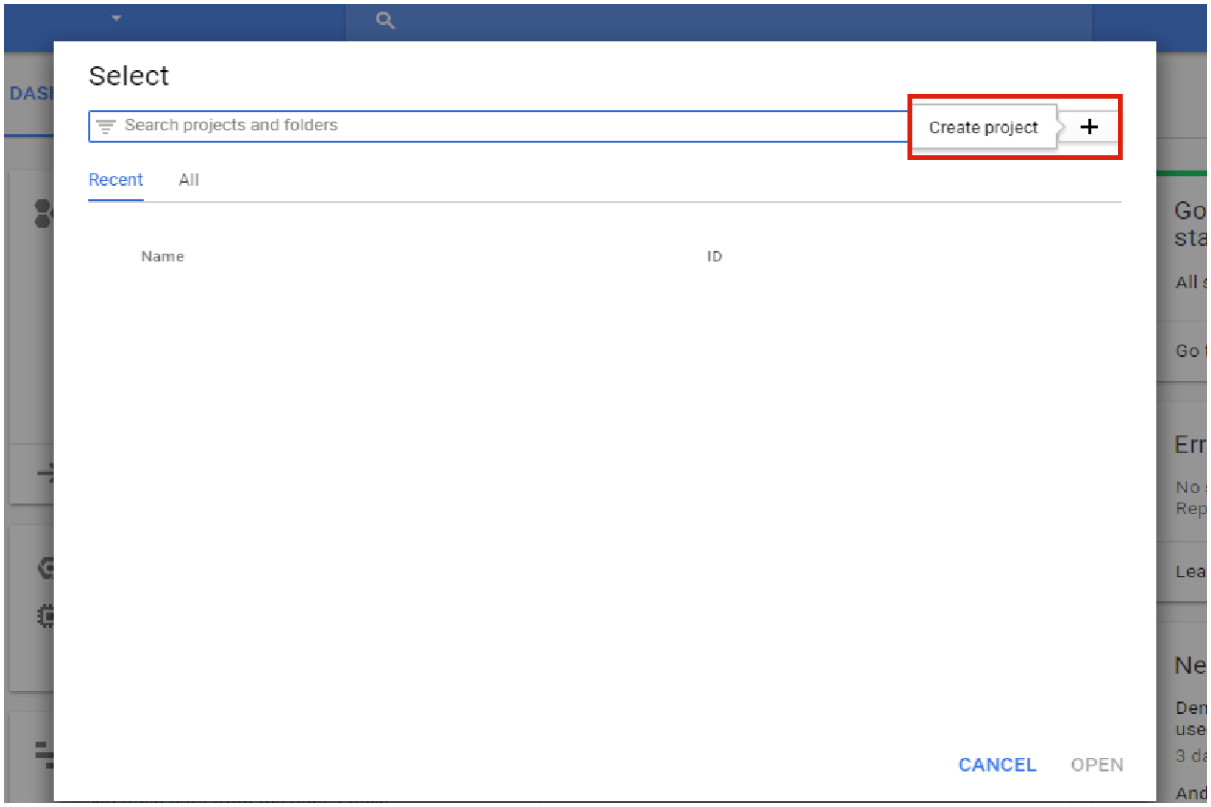
2. Sign in with google id & pass

It will appear like this:-

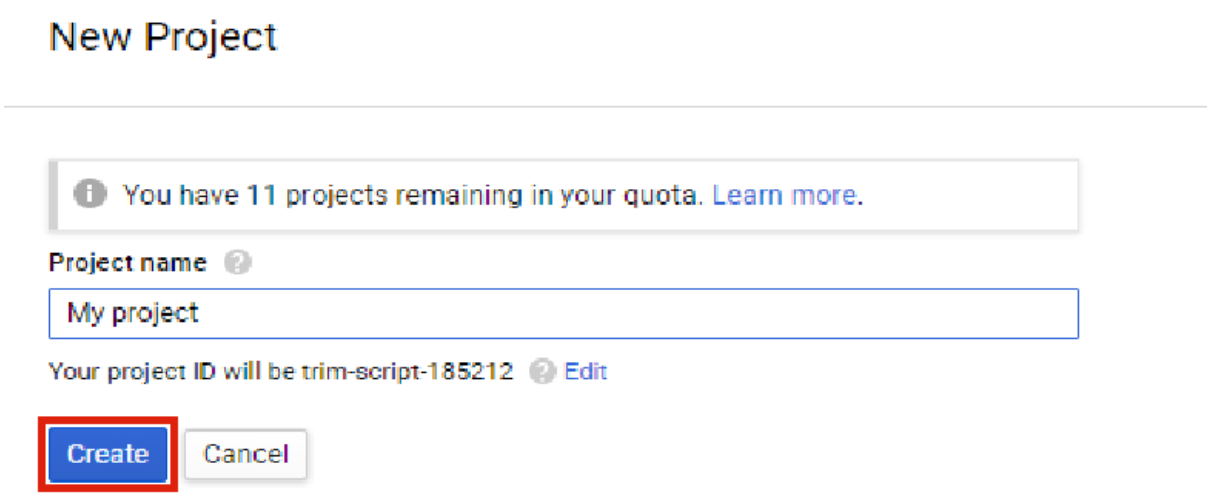


3. **Create Project**:- Click **create project** to create new project As shown below --

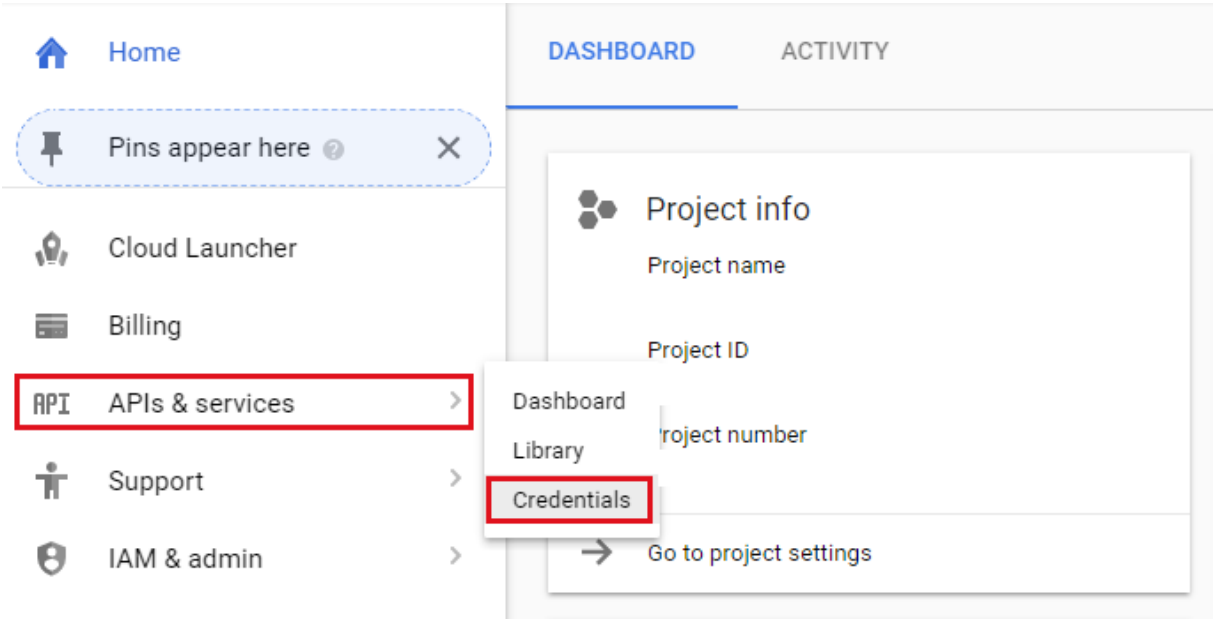
4. Next step will be like this :-



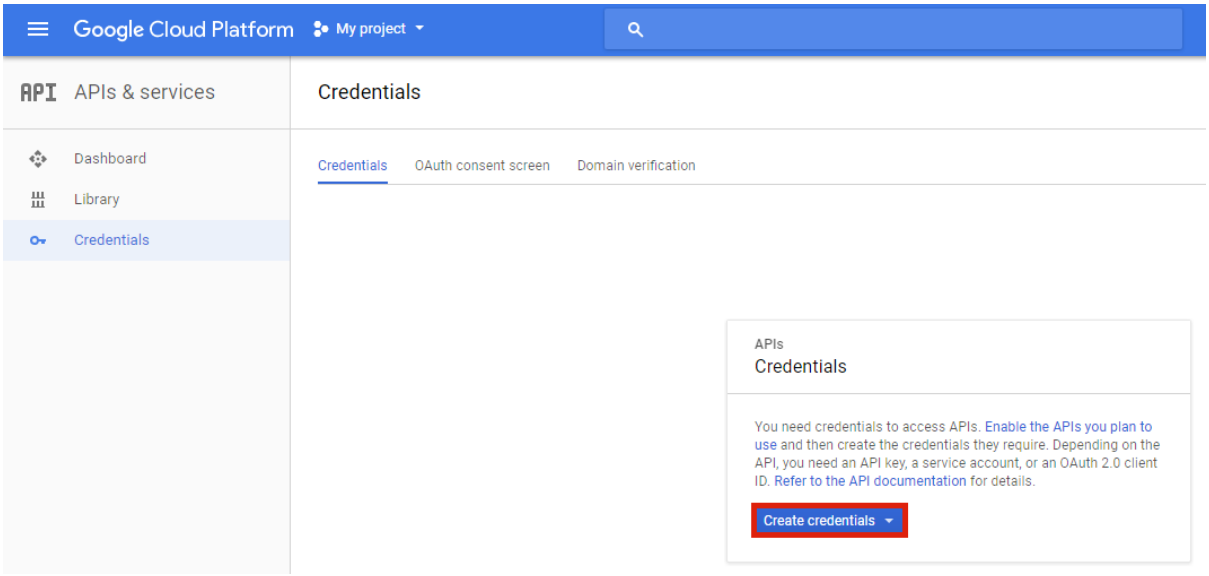
5. Lets create project by name “My project”
   “You have to create project by your APP name (Recommended)”



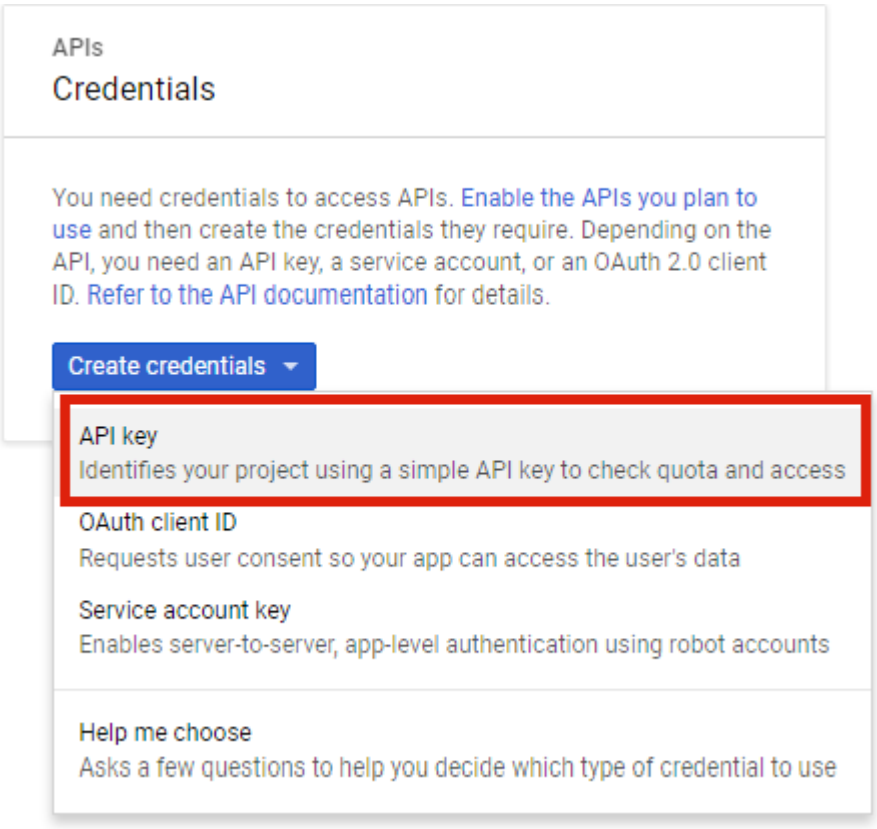
6. Our Project is created now **goto :- APIs & services → Credentials**



7. Now Create Credentials :-



8. After clicking CREATE CREDENTIALS, it will show 4 Options to choose ,Choose **API key :-**

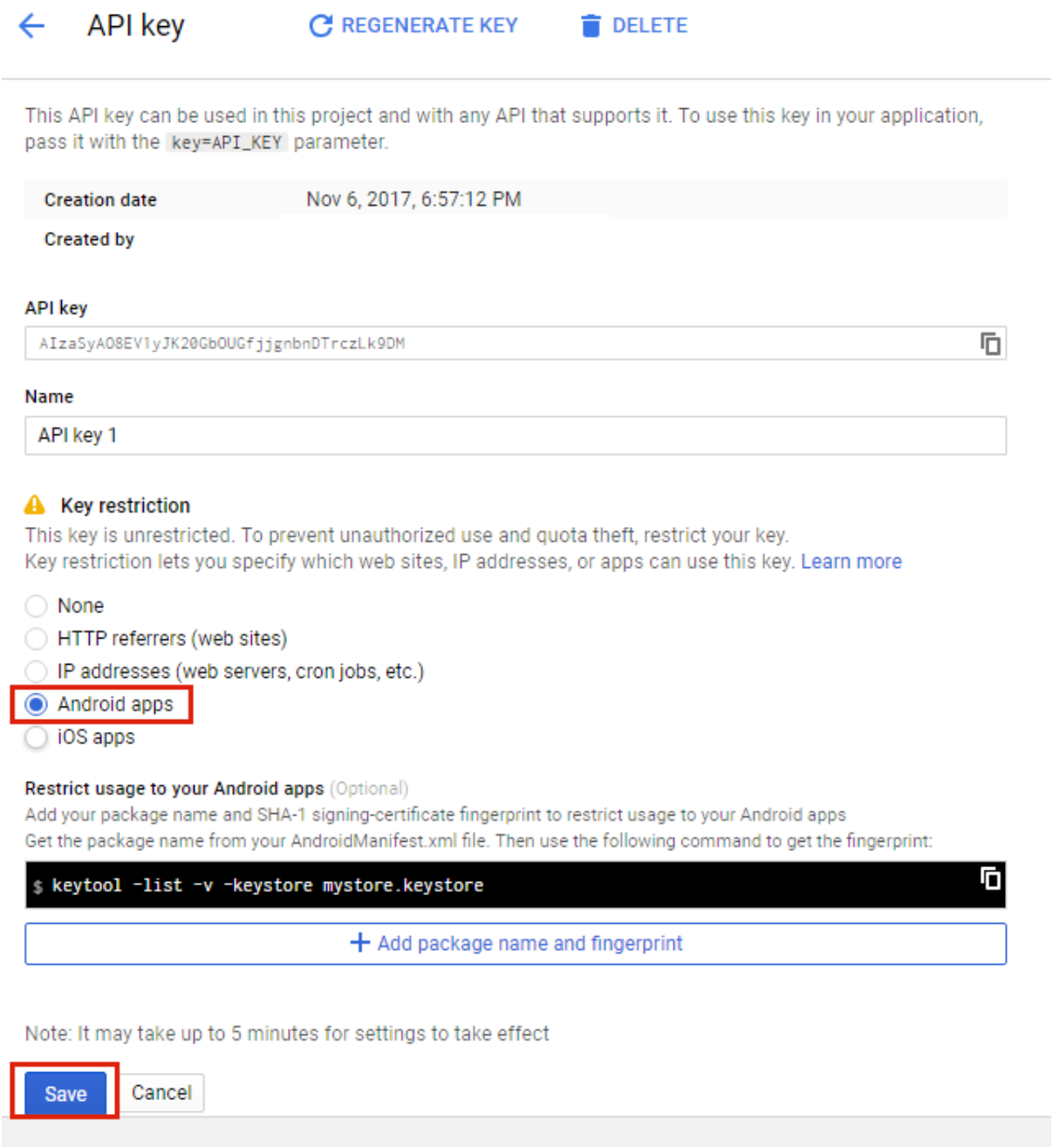


9. After clicking API key Your API key will be generated :-

"Your API will be different from me"

Now Your API is ready. But we have not yet Specified Platform that weather this API is for **Android, IOS** or of **Web Browser.**

Now go to **EDIT** option and select API for **Android apps** and Click on **Save**. As shown below:-



You can Change API's Platform according to your Requirement Platform.

- **Now open provider.ts**

Open provider.ts and code like this to get Platform. By this code it will automatically take the API for Web Browser, Android or IOs.

```
key : any = 'Your API key';

  constructor(public http: Http, public plt: Platform) {

/*=============PLATFORM CHECK============*/

   if (this.plt.is('ios')) {

         console.log('I am an iOS device!');
         this.key = "";
       }else if (this.plt.is('android')) {

         console.log('I am an android device!');
         this.key = "Your android API key";
       }else if (this.plt.is('windows')) {

         console.log('I am an windows device!');
         this.key = "";
       }else  {

         console.log('I am an browser device!');
         this.key = "Your Windows API key";
       }


         this.plt.ready().then((readySource) => {
    console.log('Platform ready from', readySource);
    // Platform now ready, execute any required native code
    console.log(plt.versions());
  });


  console.log('Hello YoutubeProvider Provider');
 }
```

→This Code is for **Youtube Channel Playlist**:-

```
/*==========PLAYLIST=======*/


 channel =  'Your channel id';

  playlist(){
          return
this.http.get("https://www.googleapis.com/youtube/v3/playlists?part=snippet&channelId="+t
his.channel+"&key="+this.key)
   // // alert(JSON.stringify(data));
   // return data;
  }

   playlist_page(pagetoken){
          return
this.http.get("https://www.googleapis.com/youtube/v3/playlists?part=snippet&channelId="+t
his.channel+"&pageToken="+pagetoken+"&key="+this.key)
  }

   playlistList(playlistid){
          return
this.http.get("https://www.googleapis.com/youtube/v3/playlistItems?part=snippet&playlistId
="+playlistid+"&key="+this.key)
  }


   playlistList_page(playlistid, pagetoken){
          return
this.http.get("https://www.googleapis.com/youtube/v3/playlistItems?part=snippet&pageToke
n="+pagetoken+"&playlistId="+playlistid+"&key="+this.key)
  }

}
```

- **Now create page name** :-“Playvideo”

Cmd:- → ionic g page “Playvideo”

Three page will be created by name:-

1. **Playvideo.html**
2. **Playvideo.scss**
3. **Playvideo.ts**

→Open playvideo.ts:- code as below –

Import the **Provider page** which you created by name **Youtube**:-

Like this (write at top of the page):-

```
import { YoutubeProvider } from '../../providers/youtube/youtube';
```

Now you can start for coding.

```
export class PlayvideoPage {
 datas:any;
 nextPageToken:any;
 constructor(
  private navCtrl: NavController,
  public params: NavParams,
  private sanitizer:  DomSanitizer,
  private yt: YoutubeProvider
 ) {

  this.fnInit();
 }

 fnInit(){
                    this.yt.playlistList(this.params.data.id).subscribe(data => {
    this.datas = data.json().items;
    // alert(JSON.stringify(this.datas));
    if(data.json().nextPageToken){
     this.nextPageToken = data.json().nextPageToken;
    }
  })
 }


 playVideo(videoId){
  return
this.sanitizer.bypassSecurityTrustResourceUrl("https://www.youtube.com/embed/"+videoId);
 }

 infiniteScrool(ev){
  if(this.nextPageToken){
   this.yt.playlistList_page(this.params.data.id, this.nextPageToken).subscribe(data=>{
    for(let i of data.json().items){
     this.datas.push(i);
    }
    if(!data.json().nextPageToken){
     this.nextPageToken = null;
    }else{
     this.nextPageToken = data.json().nextPageToken;
```

```
      }
       ev.complete();
     });
   }else{
     ev.complete();
   }
  }
}
```

- **Now open** “Playvideo .html”

And code as below:-

```
<ion-header>
  <ion-navbar>
    <ion-title>playlist</ion-title>
  </ion-navbar>
</ion-header>


<ion-content class="card-playlist">
  <ion-card *ngFor="let data of datas">
    <iframe allowfullscreen frameborder="0" height="200" width="100%"
[src]="playVideo(data.snippet.resourceId.videoId)">
    </iframe>
    <ion-card-content>
      <ion-card-title class="title">
        {{data.snippet.title}}
      </ion-card-title>
      <p class="description">
        {{data.snippet.description}}
      </p>
    </ion-card-content>
  </ion-card>

  <ion-infinite-scroll (ionInfinite)="infiniteScrool($event)">
  <ion-infinite-scroll-content></ion-infinite-scroll-content>
  </ion-infinite-scroll>
</ion-content>
```

- **Now Create Page for where you want to Display your youtube videos.**
  For eg take name **HOME:-**

- **Now create page name** :-“HOME”

Cmd:- → ionic g page “Home”

1. **Home.html**
2. **Home.scss**
3. **Home.ts**

- Now open page **Home.ts** and code like this :-

Here again import page :- **Youtube.ts** , and the page where you Code for Youtube channel Dynamic videos **“PlayvideoPage” , and Also import Dom Sanitizer as Shown Below:-**

Like this at the top of the page:-

→ import { YoutubeProvider } from '../../providers/youtube/youtube';

→ import {PlayvideoPage} from '..//playvideo/playvideo';

→ import {SafeResourceUrl, DomSanitizer} from '@angular/platform-browser';

Now start your coding:-

```
export class HomePage {


    datas:any;
    nextPageToken:any;

        constructor(public navCtrl: NavController,
                        private yt: YoutubeProvider,
                        private params: NavParams,
                    private sanitizer:  DomSanitizer,
                    ) {

                this.fnloadvideos();

                }


                    fndoRefresh(refresher) {
                      console.log('Begin async operation', refresher);

                      setTimeout(() => { this.fnloadvideos();

                       console.log('Async operation has ended');
                       refresher.complete();
```

```
                    }, 2000);
                  }


          fnloadvideos(){
                this.yt.playlist()
                      .subscribe(data => {
                            // alert(JSON.stringify(data));
                            this.datas =data.json().items;
                            if(data.json().nextPageToken){
                                  this.nextPageToken =
data.json().nextPageToken;
                            }
                });
          }


                  openPlaylist(id){
                   this.navCtrl.push(PlayvideoPage, {id:id});
                    }
                   playVideo(videoId){
                    return
this.sanitizer.bypassSecurityTrustResourceUrl("https://www.youtube.com/embed/"+videoId);
                }

                infiniteScrool(ev){
                  if(this.nextPageToken){
                    this.yt.playlistList_page(this.params.data.id,
this.nextPageToken).subscribe(data=>{
                      for(let i of data.json().items){
                        this.datas.push(i);
                      }
                      if(!data.json().nextPageToken){
                        this.nextPageToken = null;
                      }else{
                        this.nextPageToken = data.json().nextPageToken;
                      }
                      ev.complete();
                    });

                  }else{
                    ev.complete();
                  }
                }
}
```

→Now open **HOME.html** and code like this**:-**

This is the page where your Youtube Videos will be appear.

```
<ion-header>
  <ion-navbar color="As you like">
    <ion-title>
      Videos
    </ion-title>
  </ion-navbar>
</ion-header>

<ion-content >
 <div>
<ion-card *ngFor="let data of datas">
<ion-item>

   <img src="{{data.snippet.thumbnails.medium.url}}"/>
   <div class="card-title" (click)="openPlaylist(data.id)">
   <h1>{{data.snippet.title}}</h1>
   </div>
 </ion-item>

  </ion-card>

<ion-refresher (ionRefresh)="fndoRefresh($event)">
   <ion-refresher-content>Refresh</ion-refresher-content>
</ion-refresher>

  <ion-infinite-scroll (ionInfinite)="infiniteScrool($event)">
  <ion-infinite-scroll-content></ion-infinite-scroll-content>
  </ion-infinite-scroll>
</div>
</ion-content>
```

You can do yourself necessary Changes and extraordinary things as you like .

- **<u>The most important thing is to SUBSCRIBE the Youtube channel. You can also do Subscribe by your application for that you have to do code:-</u>**

If you want to do than here is the code of it:-

Here I have create a function –> “fnaddsubscription”

And call this function at another place where you have to put Subscribe button.

```
fnaddSubscription() {
  // Replace this channel ID with the channel ID you want to subscribe to
  var channelId = 'Your channel id ';

  var resource = {
    snippet: {
      resourceId: {
        kind: 'youtube#channel',
        channelId: channelId
      }
    }
  };

  try {
    var response = this.YouTube.Subscriptions.insert(resource, 'snippet');
    console.log(response);
  } catch (e) {
    if(e.message.match('subscriptionDuplicate')) {
      console.log('Cannot subscribe; already subscribed to channel: ' + channelId);
    } else {
      console.log('Error adding subscription: ' + e.message);
    }
  }
}
```

==========“Thanks for Referring my Document”==========

==========“Finally you are done with your application”==========