

Kelvin Ferdinan_2311104009

https://github.com/mispipin/KPL_Kelvin-Ferdinan_2311104009_s1se0701

```
06_DBC > JM > Mainjs > ...
1  import SayaTubeVideo from './SayaTubeVideo.js';
2  import SayaTubeUser from './SayaTubeUser.js';
3
4  function generateRandomTitle() {
5      const words1 = ["Petualangan", "Kisah", "Legenda", "Rahasia", "Misteri", "Perjalanan", "Kehidupan"];
6      const words2 = ["Sang", "Si", "Anak", "Pahlawan", "Monster", "Dukun", "Malaikat"];
7      const words3 = ["Terakhir", "Ajaib", "Terlarang", "Tersembunyi", "Terbang", "Berbahaya", "Menakutkan"];
8
9      const randomWord1 = words1[Math.floor(Math.random() * words1.length)];
10     const randomWord2 = words2[Math.floor(Math.random() * words2.length)];
11     const randomWord3 = words3[Math.floor(Math.random() * words3.length)];
12
13     return `${randomWord1} ${randomWord2} ${randomWord3}`;
14 }
15
16 try {
17     const user = new SayaTubeUser("Kelvin Ferdinan");
18
19     for (let i = 0; i < 10; i++) {
20         let video = new SayaTubeVideo(`Review Film ${generateRandomTitle()} oleh Kelvin Ferdinan`);
21
22         for (let j = 0; j < 10; j++) {
23             try {
24                 video.IncreasePlayCount(25000000);
25             } catch (error) {
26                 console.error(`Error saat menambah play count pada video ${i + 1}: ${error.message}`);
27                 break;
28             }
29         }
30
31         user.AddVideo(video);
32     }
33
34     user.PrintAllVideoPlaycount();
35     console.log(`Total Play Count: ${user.GetTotalVideoPlayCount()}`);
36 } catch (error) {
37     console.error("Error:", error.message);
38 }
```

```
06_DBC > JM > SayaTubeUserjs > SayaTubeUser
1  import SayaTubeVideo from './SayaTubeVideo.js';
2
3  export default class SayaTubeUser {
4      constructor(username) {
5          if (typeof username !== 'string' || username.length === 0 || username.length > 100) {
6              throw new Error("Username must be a non-empty string with a maximum length of 100 characters.");
7          }
8          this.username = username;
9          this.uploadedVideos = [];
10     }
11
12     AddVideo(video) {
13         if (!(video instanceof SayaTubeVideo)) {
14             throw new Error("Invalid video object.");
15         }
16         if (video.playCount > Number.MAX_SAFE_INTEGER) {
17             throw new Error("Play count exceeds maximum integer value.");
18         }
19         this.uploadedVideos.push(video);
20     }
21
22     GetTotalVideoPlayCount() {
23         return this.uploadedVideos.reduce((total, video) => total + video.playCount, 0);
24     }
25
26     PrintAllVideoPlaycount() {
27         console.log(`User: ${this.username}`);
28         const maxVideosToPrint = Math.min(8, this.uploadedVideos.length);
29         for (let i = 0; i < maxVideosToPrint; i++) {
30             console.log(`Video ${i + 1} judul: ${this.uploadedVideos[i].title}`);
31         }
32     }
33 }
```

```

06_DBC > JM > SayaTubeVideo.js > SayaTubeVideo
1  export default class SayaTubeVideo {
2      constructor(title) {
3          if (typeof title !== 'string' || title.length === 0 || title.length > 200) {
4              throw new Error("Title must be a non-empty string with a maximum length of 200 characters.");
5          }
6          this.id = Math.floor(10000 + Math.random() * 90000);
7          this.title = title;
8          this.playCount = 0;
9      }
10
11     IncreasePlayCount(count) {
12         if (typeof count !== 'number' || count <= 0 || count > 25000000) {
13             throw new Error("Play count increment must be between 1 and 25,000,000.");
14         }
15         try {
16             let newPlayCount = this.playCount + count;
17             if (newPlayCount > Number.MAX_SAFE_INTEGER) {
18                 throw new Error("Play count overflow detected.");
19             }
20             this.playCount = newPlayCount;
21         } catch (error) {
22             console.error("Error:", error.message);
23         }
24     }
25
26     PrintVideoDetails() {
27         console.log(`Video ID: ${this.id}`);
28         console.log(`Title: ${this.title}`);
29         console.log(`Play Count: ${this.playCount}`);
30     }
31 }

```

Output:

```

[Running] node "c:\Users\LEGION\OneDrive - Telkom University\sem4\kpl\KPL_Kelvin Ferdinan_231110400
User: Kelvin Ferdinan
Video 1 judul: Review Film Kisah Malaikat Ajaib oleh Kelvin Ferdinan
Video 2 judul: Review Film Misteri Anak Tersembunyi oleh Kelvin Ferdinan
Video 3 judul: Review Film Legenda Sang Tersembunyi oleh Kelvin Ferdinan
Video 4 judul: Review Film Perjalanan Monster Tersembunyi oleh Kelvin Ferdinan
Video 5 judul: Review Film Rahasia Dukun Berbahaya oleh Kelvin Ferdinan
Video 6 judul: Review Film Kisah Sang Berbahaya oleh Kelvin Ferdinan
Video 7 judul: Review Film Rahasia Pahlawan Berbahaya oleh Kelvin Ferdinan
Video 8 judul: Review Film Kehidupan Pahlawan Berbahaya oleh Kelvin Ferdinan
Total Play Count: 250000000

```