This midterm project is about creating a music instrument learning website. I encountered several difficulties during this process. The first problem that stuck me was that the video. At first, I downloaded a video on my laptop from the website and inserted the link to my html just like this.

**<video width="320" height="240" controls>  
  <source src="movie.mp4" type="video/mp4">  
</video>**

It seemed pretty good, though it was too large to be uploaded to GitHub, and it was not applicable to a well-run website, so I had no choice but to go another way. Therefore, I asked Sebastian for help. He recommended me using an iframe with the URL if I used the YouTube video. It was a pretty good idea, and I also learnt how to play the video automatically during this problem-solving process. This is my improved version.

**<iframe width="610" height="400"**

**src="https://www.youtube.com/embed/fdQgPu3iUYk?autoplay=1&loop=1" frameborder="0" allowfullscreen autoplay controls muted>**

**</iframe>**

What troubled me next was the bootstrap carousel for slideshow. At first, I just used one picture which seemed boring. However, there was no other space to arrange more images. So it made me think how to show a series of images for cycling so that it would be interesting and save space. After I googled this question, I found bootstrap Carousel quite helpful. So I learnt it myself, and used this component in my html to cycle three images. To control the interval, I used **data-interval="2000"**, and it really worked well. But one more thing still bothered me. I didn’t know how to change the size of these slides. I tried many ways but failed still. I am still working on this problem now.

The third problem is about how to use id attribute. On my homepage, I had a forum part. I expected that when users click the forum button, the page would jump to the forum part. Based on my knowledge, I only know how to jump to another page through a link, and I had no idea how to jump to a specific part on the same page. So I googled and I figured out that I could use the id attribute. First I gave the button forum a name"new"and href="#new", just like **this <a name="new" href="#new">Forum</a>,** and then I gave the forum table and id with the name exactly the same with the link, like this **<table id="new">.** So when I clicked the link, it would turn out to be the forum table. That’s quite interesting and useful.

In total, at first I thought this midterm project difficult and time-consuming. But during this process, through a lot of problem-solving, many knowledge I hardly understood before could naturally being figured out. It really helped me to apply the knowledge I learnt in this semester and combine programming skills with the theories well together. So I really appreciate that we were given this special project to work on.