**Assignment 10 course reflection**

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Part I: what I learned from the course

**Basic coding**: using html, CSS, JavaScript to build a basic web and apply Bootstrap to make the web responsive to different devices. I suppose I only master the “understanding” level. I can know the coding is corresponding for which part, and I can copy it from other’s websites. However, it’s too difficult for me to code from zero.

**Working with Data**: Through practice, I understand the theory of where the data comes from: API, Open Data, web scraping, and internal database. We also know the whole procedure to acquire, filter, clean, transform, and visualize data in the context of web application development.

And several useful tools are introduced to us, from web scraping to data cleaning, and from data storing to data application. Such as ParseHub, OpenRefine. By the way, Airtable is a very good and efficient instrument to deal with all different forms of data.

We learned how to integrate front-end web development with back-end database using CSV and JSON as the data transfer format. I know it’s the most common and best way to embed data, however, I still bend to the convenience of Echart and Highchart…

**Design thinking:** it’s hard to summarize what I have learned in this part. I think prof. Bernard is trying to teach us how to think like a product manager. Actually, that’s more important than technical things. After learning design thinking, I start to think logical and critical in my daily life. When I see some new product, online or offline, I often keep asking myself: who’s their target audience? What problem do they try to solve? Together with other questions on the business model canvas.

**Marketing management**: I mean the powerful Google Analytics family. Through the traffic tracking of my final project and A/B test, I think we can operate this powerful tool primarily. But I really think the GA family is not user-friendly.

Part II: some puzzle and what I plan to learn after class

**1、 what can I do with these skills?**

Well, our final project nearly applied all things we learned in the class. However, I don’t think people will use a website to solve problems nowadays, with the preference of mobile devices. Besides, I can’t write the data from zero, and in many times, I can’t correct the errors by myself. It’s just a feeling that I have graduated from the primary school, and it still has a long journey but I don’t know where is the destination.

**2、how to keep learning?**

Prof. Bernard told us that what we learned in this course are all the latest technology, which are used by the industry. But technology changes quickly, we need to keep learning after finishing this course. I know we can find many useful videos on YouTube and Github, but I think I still need some guidance to collect these unsorted information.

**3、later study plan**

First, I plan to find some online coding web to learn more about CSS and JavaScript. I hope I can realize some simple function without copying other’s codes.

Second, Airtable is a powerful tool, and I plan to build my own database.