

CSE 134B Homework 4 Write Up

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Development Challenges

There were development challenges in the authentication prototyping phase of the assignment. In the development environment, authentication didn't work in the Microsoft Edge browser because the browser didn't allow for the execution of scripts like ActiveX scripts, and it was noted as an error in the dev console. Only by allowing the ActiveX for the Dex site in Internet Explorer 11 did authentication features work. In switching to another browser, FireFox, email and Gmail authentication features work as intended.

For optimization, it was difficult to improve the organization, and thus the speed and byte count of the web application without breaking the working implementation of the existing features. We tried to implement optimizations in repeated code but since they broke the existing implementation of authentication for example, and we couldn't find a workable solution in time, we abandoned our progress on some optimizations to replace our current implementation when they are solved at a later time.

Another development hurdle was adapting the knowledge base of implementations on the internet to the design of our TopicDex. Other applications organized their structure in a specific way to the design of their topic and used the FireBase Realtime Database in the way their design call for it.`