**Requirements Engineering for App to Implement Computer Science Standards**

* ***Capabilities***:
* Assist teachers and staff to decide how to split up and implement different CS standards that are completely new to them without the assistance of a representative from Code VA
* ***Business requirements***
* Because of a new law, schools in Virginia are required to now implement various CS standards in their curriculum, but due to the lack of experience with Computer Science as a whole, schools are having a hard time to integrate these new standards.
* Code VA is a non-profit organization that teach young kids how to code and other related CS activities. They have partnered with different schools to help implement these standards by guiding them through the process. But with so many people to go around to the numerous number of schools, its hard to keep up.
* This is where this app comes in, by developing an easy to use and simple app that helps teachers “match” various standards of specific grade levels to subjects that they are best thought to be taught at. Now each school can knock out each implementation of the standards at their own pace without Code VA having to worry about every school individually.
* ***Functional and nonfunctional requirements***
* For the app itself to work, we will need an input of district name, school name, grade level and basic information about all participating users.
* By using Node.js, we have an app that takes in these inputs and displays all Standards for the given grade level as well as their description, and a set of basic subjects that they can drag and drop to each standard.
* If certain subjects are not present in the given basic set, they can choose to add additional subjects to match to the standards. Furthermore, they are also allowed to match multiple subjects to one standard, or even more if the situation calls for it.
* Once they have at least one subject matched to each given standard, they will continue on to a review page where they can see everything they matched and any notes they might have added when matching. If all is well, they can choose to print, download, or email the result. If email is chosen, the list of users inputted will show up and you can choose who receives the email.
* ***Technical requirements***
* The most basic technical requirements here are those pertaining to the app and the database. For the app we will use Node.js to create a webpage that will be treated as an app. The specified group of teachers will utilize a machine such as a laptop or tablet or whatever they deem appropriate and go to the web page, no authentication required.
* The database will be a MySQL database that will store all the information given to use. Things such as district name, school name, and users participating will all be stored into the database as we take in input, but things like the standards themselves and an initial set of schools and districts to work with will all be stored beforehand as well.