**Requirements Document**

Requirements? Functionality? **Requirements should be in list forma**t

**Capabilities :**

Kiersten (Website)

* To promote computer science education in middle schools by providing necessary resources  
    
    
  **Business Requirements :** (what is needed, define the problem)

Brianna and Mason(Research)

* Reduce the time that teachers have to spend putting together computer science activities that follow SOL principles
* Create activities that are engaging/ fun but also follow Virginia SOL’s
* Expose students to basic computer science concepts
* Reduce time it takes to consolidate numerous activities on various different website to one place that holds many different engaging activities
  + Page on a website that has
    - Answer Key
    - Worksheet
    - Lesson plans that encompass SOL’s
    - Step by step instructions guide

**Functional/Non-Functional Requirements:** (how to fulfill the need - the solution)

Brianna (Research)

Functional:

* Provide a working link to finished activity
* Provide step by step instructions of the exercise for a nontechnical person
* Provide lesson plan
* Provide worksheet copy for students
* Provide teacher copy for worksheet
* System should hold everything needed for teacher to teach the lesson

Non Functional

* Ability to access a computer
* Ensure that grade level teaching has technology skills to complete the lesson
* Wifi inconsistency could lead to Scratch exercises being completed

**Technical Requirements :** (how to implement the solution with details, technologies, implementation specifics)

Jared (website)

(**other technical requirements**)

* Use google documents to store the lesson plans until pushed onto website
* Use google excel to track progress on lesson plans and point that they are in their development cycle
* Use Scratch.edu to create code to find interactive and engaging ways to complete the worksheet that follow SOL

**(website requirements)**

* A link on home webpage that will host each activity
* Have the activities categorized by sections (e.g scratch exercises, gaming exercises,Binary num exercises,algorithm exercises)
* Have the pdf for exercises & lessons embedded in the page and ready to be downloaded
* Have an option to view pdfs without downloading
* Have bootstrap to make all the html pages styling correlate with each other
* Have a home button to go back to homepage
* Have a responsive website
* Have headers and navbar for each html page
* Have an easy to navigate website
* User friendly styling
* Represents VCU

**Parameters:**

Mason (research)

* Cannot violate copyright laws
* Must ensure simplicity of all lesson plans so it can be implemented even by those with no tech background