

LittleSecurity.NET

A baby-tech review website.

Creator:

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Technical Field

My project encompasses the technical fields of my degree, Network Security, and some light web development.

Background Information

I was inspired to pursue this project while installing a baby camera in my newborn's room. While I lined the cables against the wall and covered them with cable covers to keep her safe, I was curious about what I could do to secure many IoT devices. This thought grew into an idea that could answer these questions and help other parents with similar questions and concerns.

Prior Art (legal term)

My sources of inspiration are baby IoT devices, not anyone IoT device in particular. There are no patents that I need to be concerned with currently. Because I am creating my website and essentially reviewing the technical safety of baby IoT devices and giving advice on how to make someone's network safer potentially, I have not encountered any legal issues. However, I need to review how writing about devices may cause problems with manufacturers.

Project Description

My project will help parents secure their baby's IoT devices and keep their network as safe as possible.

Innovation Claim

My project, LittleSecurity.NET, provides a "one-stop" information hub for parents looking for technical safety advice for their baby's IoT devices as well as ways to secure their network while these devices are on them.

Usage Scenario

LittleSecurity.NET will be created to educate parents on IoT devices and how to make their network safer when using them. However, the website could also be used to inform others on IoT devices in general and other ways to keep their network secure. Hopefully, this would open the doors for individuals to take security more seriously, protect themselves, and maybe have a positive impact on future devices by the manufacturing companies taking an initiative to secure their devices.

Evaluation Criteria

Is the website up and running?

Are you able to navigate the website?

Is the website easy to read?

Is the website easy to use?

Are there at least three devices tested?

Are there at least three articles about those devices on the website?

Are there at least two articles about securing your network?

Objectives and Tasks Associated with the Project

***Green is completed, Black is not**

- 1) Legal
 - a. Manufactures and Reviews – Is there anything I need to look out for? Is there a process I must follow?
 - b. Disclaimer for advice/devices tested
 - c. Possibly make website private
- 2) Obtain a Website
 - a. Decide on Website Type – Am I going to build a website, use a prebuilt, or use a combination of the two? (I already chose to use a combination of the two.)
 - b. Decide and Obtain Domain Name – LittleSecurity.NET (Already decided and obtained)
 - c. Build-out website
 - d. Color Scheme
 - e. Logo
- 3) Reports
 - a. Write-Ups – Am I writing this in blog form only or will I create reports for the IoT devices that I test?
 - b. Almost Completed: Create a reporting standard
 - c. Almost Completed: Create a testing standard
- 4) Education
 - a. IoT course on standards
 - b. CVSS course
 - c. Write 2 articles: How to secure each device/network
 - d. Set-up tools
 - e. Practice on tools

Description of Design Prototype

My project will be a simple-blog-styled website. It will have a logo centered at the top and a centered navigation section below that. The navigation section will have: “Home, About Me, Reviews, and Contact” sections. Below will be reviews on baby IoT devices and ways to help make them secure on your network. Below this, there will be a footer. Color schemes have not been determined yet.

Evaluation Plan

I am the only member of my project, LittleSecurity.NET. I plan to create at least three articles reviewing three different baby IoT devices. I will discuss their safety, what I have found in my research, and how (if possible) a parent could make these devices safer. I also plan to write two articles on how a parent could make their network safer. These articles will include pictures and diagrams when/if necessary.

The website will look similar to what I have described in the “Description of Design Prototype” section of this document. I will have my centered logo, navigation, articles, footer, and colors picked out. I am also hoping to have a responsive website.

If I can do the above, I will have successfully answered and completed my project.

Project Completion Assessment

Note: This section must completed prior to SIP403/409.

Pre-Assessment:

What went right? So far, the idea has gone very smoothly. I am happy with what I am learning, but the project is yet to be complete.

What went wrong? I feel that the legality part might be what goes wrong. If I cannot receive a clear answer or one, I am comfortable with, that the website may have to be published privately until I find the information I am looking for.

What was learned throughout the process? So far, I have learned about IoT devices and I am continuing to learn about that. I am also learning about reporting, standards, security, and how to check for vulnerabilities. The whole project is something that I do not have any prior knowledge about.

What would be done differently if you had to do it again? I would have more time to work on the assignment. The more I researched the more questions I had and research to do.

Appendices

Note: While students are encouraged to start citing their sources as soon as SIP311, this section must completed prior to SIP403/409. For SIP402 (or SIP408), use this as a way to share your progress TOWARDS completion with your SME

Include as appendices any supporting material for this project, including charts, graphs, and other data; images associated with the project; or other documentation (e.g., a game design document or read-me file). Include any prior art that was used such as U.S. Patent Documents, Foreign

Patent Documents, or other sources. Remember that this section should only be a list of additional files, not the actual data of the files!

Use the following format:

Appendix letter: description of item – file name

Example...

Appendix A: Game design document – myGameDoc.docx

Appendix B: 3D render of primary character – mainCharacter.jpg

Appendix C: References

Author. (date). etc, following APA style.

Appendix A: Rendering – SIP_Prototype.jpg