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Comp 195

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Encryption Application: System Design

System Design Document: Contents and Format

**Cover page**

* Name: SAFSS ( Software Applications for Security Study)
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* 2/13/2022

**System Architecture**

Microservice model

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**Hardware, Software, and System Requirements**

Hardware requirements: the list below are minimum and recommended hardware requirements for WAFSS application.

|  |  |  |
| --- | --- | --- |
| **Component** | **Minimum** | **Recommended** |
| Processor | 1.9 gigahertz (GHz) x86- or x64-bit dual-core processor with SSE2 instruction set | 3.3 gigahertz (GHz) or faster 64-bit dual-core processor with SSE2 instruction set |
| Memory | 2-GB RAM | 4-GB RAM or more |
| Display | VGA with 800x600 resolution or higher | VGA with 1024 x 768 resolution or higher |

Browser/ Operating system: Below is a list of browser and operating system support and run the WAFSS application.

|  |  |
| --- | --- |
| Operation System | Browser |
| Window 10 and Window 11 | Chrome: Current Version  Microsoft Edge: Current Version  Firefox: Current Version  Internet Explorer: Explorer 11  Safari: Version 15.2 |
| MacOs 10.15 to 12 |
| Chrome OS: Current Version |

**Software Design**

Diagram

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**User Interface Design** Graphical user interface, application

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Graphical user interface, application

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Graphical user interface, application, email

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**Glossary of Terms**

|  |  |
| --- | --- |
| Terms | Definition |
| Caesar Cipher | one of the simplest and most widely known encryption techniques. |
| Key | a letter which represents the number of place for the shift |
| Microservice model | Architectural and organizational approach to software development |
| Operating System (OS) | Software that controls the operation of a computer and directs the processing of programs |
| Processor (CPU) | Logic circuitry that responds to and processes the basic instructions that drive a computer |
| Random access memory (RAM) | Computer's short-term memory, which it uses to handle all active tasks and apps |
| Video Graphics Array (VGA) | Computer chipset standard for displaying color graphics |
| WAFSS | Web Applications for Security Study |

References:

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Google. (n.d.). System requirements. Google Web Designer Help. Retrieved February 22, 2022, from https://support.google.com/webdesigner/answer/3232604?hl=en