

**Custom Encryption and Decryption Software**

**Low-Level Design Version**

**Document Control:**

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| **Project Revision History** | | | | | | |
|  |  |  | |  |  |  |
| **Date** | **Version** | **Author** | **Brief Description of Changes** | | | |
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**I) Low-Level Design**

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| **Low-Level Design** |

**1.INTRODUCTION**

The aim of this document is to gather, analyze and give an in-depth insight into the complete simulation of different dead lock scenarios and avoiding the dead locks by defining the problem statement in detail. The intended audience includes all stakeholders, Users, and developers. The detailed low-level design of the simulation of different dead lock scenarios and avoiding the dead locks is provided in this document.

### 1.1 Purpose

The purpose of this document is to describe the low-level design flow of the encryption and decryption software.

### 1.2 Document Conventions

TBD (To be continued).

### 1.3 Intended Audience and Reading Suggestions

The document is primarily intended for team members, which consists of trainees under the **Capgemini** Training Program

**1.4 REFRENCES**

The references are:

1. System Requirements Specification Document

[2] System Specification Requirement

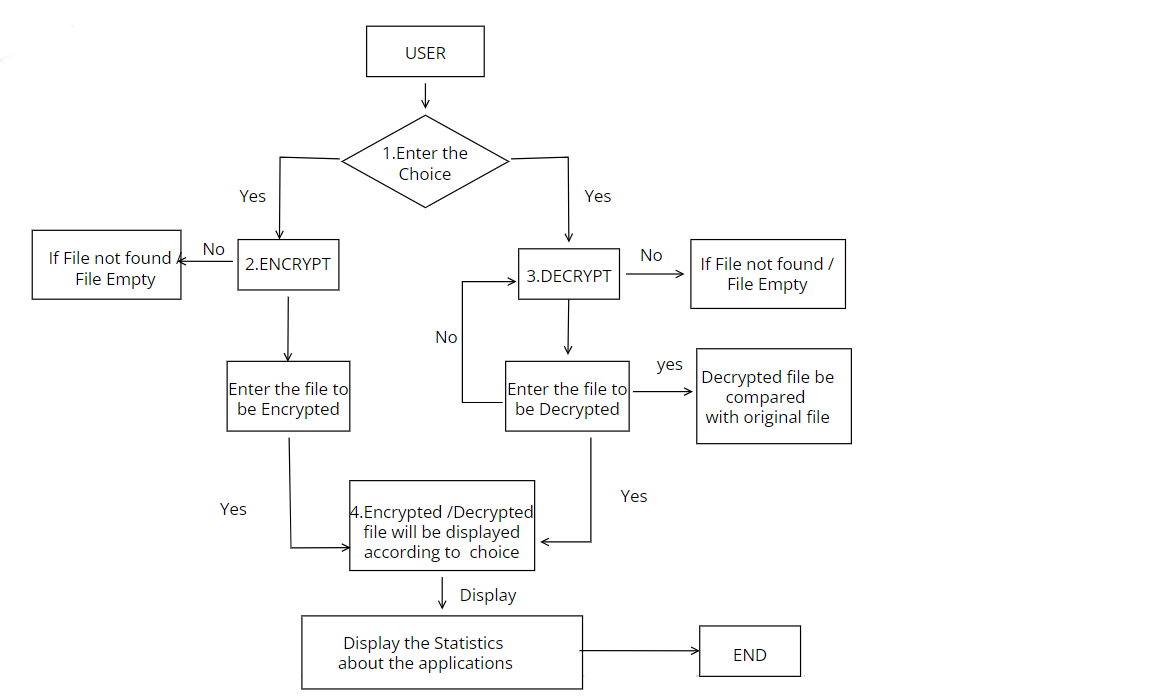
## 2. Detailed System Design

**2.1 Design Description**:

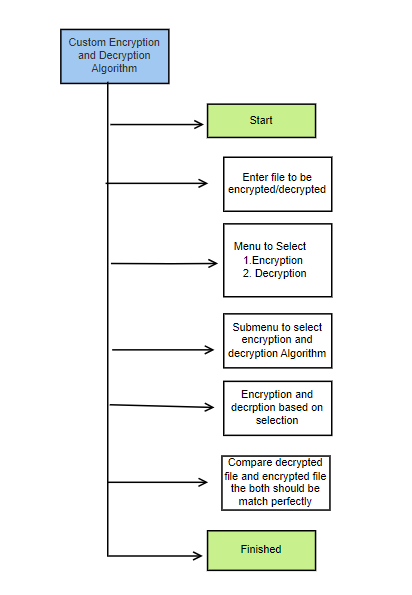
The Design description of our project is to save the data files in secured format.

The process of Encryption or Decryption takes place then the Data will be saved in the file and in Decryption process the file will be compared, if the original file matches with the decrypted file, then it will be considered as Decrypted

**2.2 Flowchart**



**2.3 Story Board**



**2.4 Modules:**

### 

**2.4.1 client .c**

**main ()**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | Main () | | | |
| **Input** | Parameter Name | NA | Initial value: | NA |
| **Output** | Return value type | int | -  Text Box | - |
| **Description** | The main function will display the user options to the clients. | | | |
| **Pseudo**  **Code** | 1. Display the main menu  2. Wait for user options  3. Based on user input it will perform further functions | | | |

**2.4.2 main menu ()**

| **Name** | main menu () | | | |
| --- | --- | --- | --- | --- |
| **Input** | Parameter Name | int | Initial value:NA | - |
| **Output** | Return value type | int |  | - |
| **Description** | This will display the list options in screen | | | |
| **Pseudo**  **Code** | 1. Display the main menu  2. Wait for user options | | | |

**2.4.3 Encryption ():**

| **Name** | Encryption () | | | |
| --- | --- | --- | --- | --- |
| **Input** | Parameter Name | char | Initial value:NA | - |
| **Output** | Return value type | int |  | - |
| **Description** | The selected Encryption algorithm should be applied to the given file and the Encryption process takes place and the file gets encrypted. | | | |
| **Pseudo**  **Code** | Enter the file name  1.if the file is not found it shows the message that file is unable to open.  2. if the file is present, it will start Encrypting it.  3.after encryption it displays the message encryption is successful. | | | |

**2.4.4 Decryption ()**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | Decryption () | | | |
| **Input** | Parameter Name | char | Initial value:NA | - |
| **Output** | Return value  type | int | Text Box | - |
| **Description** | The selected Decryption Algorithm should be applied to given file and Decryption process takes place and the file gets Decrypted | | | |
| **Pseudo**  **Code** | Enter the file name  1.if the file is not found it shows the message that file is unable to open.  2. if the file is present, it will start Encrypting it.  3.after encryption it displays the message encryption is successful. | | | |

**2.4.5 Server.c**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | Server () | | | |
| **Input** | Parameter Name | int | Initial value:NA | - |
| **Output** | Return value  type | int | Text Box | - |
| **Description** | All the operations regarding client will be performed at server will pass messages from client regarding the client operations. | | | |
| **Pseudo**  **Code** | 1. Messages will be passed from the server depending upon the messages received from the client.  2.Establishment between client and server will be performed | | | |