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| **Use Case Description** | |
| **System:** Educational encryption system |  |
| **Use Case name:** Encrypt Message. |  |
| **Primary actor:** User | **Other actors:** |
| **Stakeholders:** |  |
| **Description: This use case describes the scenario where the user encrypt the message.** | |
| **Relationships**  **▪Includes:**  **▪Extends:** | |
| **Input:** Message | |
| **Pre-conditions:** | |
| **Steps:** | . |
| **Actor** | **System** |
| 1. User enters the message. 2. User chooses the type of encryption. | 1. System displays types of encryption. 2. System displays the encrypted message. |
| **Alternative and exceptional flows:** | |
| **Post-conditions:** | |

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| **Use Case Description** | |
| **System:** Educational encryption system |  |
| **Use Case name:** Encrypt by using Mono Substitution. |  |
| **Primary actor:** User | **Other actors:** |
| **Stakeholders:** |  |
| **Description: This use case describes the scenario where the system encrypt message by using Mono Substitution algorithm.** | |
| **Relationships**  **▪Includes:**  **▪Extends:** | |
| **Input:** Message | |
| **Pre-conditions:** | |
| **Steps:** | . |
| **Actor** | **System** |
|  | 1. System encrypts the message by using Mono Substitution algorithm. |
| **Alternative and exceptional flows:** | |
| **Post-conditions:** | |

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| **Use Case Description** | |
| **System:** Educational encryption system |  |
| **Use Case name:** Encrypt by using Playfair. |  |
| **Primary actor:** User | **Other actors:** |
| **Stakeholders:** |  |
| **Description: This use case describes the scenario where the system encrypt message by using Playfair algorithm.** | |
| **Relationships**  **▪Includes:**  **▪Extends:** | |
| **Input:** Message | |
| **Pre-conditions:** | |
| **Steps:** | . |
| **Actor** | **System** |
|  | 1. System encrypts the message by using Playfair algorithm. |
| **Alternative and exceptional flows:** | |
| **Post-conditions:** | |

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| **Use Case Description** | |
| **System:** Educational encryption system |  |
| **Use Case name:** Encrypt by using Vigenere. |  |
| **Primary actor:** User | **Other actors:** |
| **Stakeholders:** |  |
| **Description: This use case describes the scenario where the system encrypt message by using Vigenere algorithm.** | |
| **Relationships**  **▪Includes:**  **▪Extends:** | |
| **Input:** Message | |
| **Pre-conditions:** | |
| **Steps:** | . |
| **Actor** | **System** |
|  | 1. System encrypts the message by using Vigenere algorithm. |
| **Alternative and exceptional flows:** | |
| **Post-conditions:** | |

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| **Use Case Description** | |
| **System:** Educational encryption system |  |
| **Use Case name:** Encrypt by using Keyed Transposition. |  |
| **Primary actor:** User | **Other actors:** |
| **Stakeholders:** |  |
| **Description: This use case describes the scenario where the system encrypt message by using Keyed Transposition algorithm.** | |
| **Relationships**  **▪Includes:**  **▪Extends:** | |
| **Input:** Message | |
| **Pre-conditions:** | |
| **Steps:** | . |
| **Actor** | **System** |
|  | 1. System encrypts the message by using Keyed Transposition algorithm. |
| **Alternative and exceptional flows:** | |
| **Post-conditions:** | |

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| **Use Case Description** | |
| **System:** Educational encryption system |  |
| **Use Case name:** Encrypt by using DES. |  |
| **Primary actor:** User | **Other actors:** |
| **Stakeholders:** |  |
| **Description: This use case describes the scenario where the system encrypt message by using DES algorithm.** | |
| **Relationships**  **▪Includes:**  **▪Extends:** | |
| **Input:** Message | |
| **Pre-conditions:** | |
| **Steps:** | . |
| **Actor** | **System** |
|  | 1. System encrypts the message by using DES algorithm. |
| **Alternative and exceptional flows:** | |
| **Post-conditions:** | |

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| **Use Case Description** | |
| **System:** Educational encryption system |  |
| **Use Case name:** Decrypt Message. |  |
| **Primary actor:** User | **Other actors:** |
| **Stakeholders:** |  |
| **Description: This use case describes the scenario where the user decrypt the message.** | |
| **Relationships**  **▪Includes:**  **▪Extends:** | |
| **Input:** Message | |
| **Pre-conditions:** | |
| **Steps:** | . |
| **Actor** | **System** |
| 1. User enters the message. 2. User chooses the type of decryption. | 1. System displays types of decryption. 2. System displays the decrypted message. |
| **Alternative and exceptional flows:** | |
| **Post-conditions:** | |

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| **Use Case Description** | |
| **System:** Educational encryption system |  |
| **Use Case name:** Decrypt by using Mono Substitution. |  |
| **Primary actor:** User | **Other actors:** |
| **Stakeholders:** |  |
| **Description: This use case describes the scenario where the system decrypt message by using Mono Substitution algorithm.** | |
| **Relationships**  **▪Includes:**  **▪Extends:** | |
| **Input:** Message | |
| **Pre-conditions:** | |
| **Steps:** | . |
| **Actor** | **System** |
|  | 1. System decrypts the message by using Mono Substitution algorithm. |
| **Alternative and exceptional flows:** | |
| **Post-conditions:** | |

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| **Use Case Description** | |
| **System:** Educational encryption system |  |
| **Use Case name:** Decrypt by using Playfair. |  |
| **Primary actor:** User | **Other actors:** |
| **Stakeholders:** |  |
| **Description: This use case describes the scenario where the system decrypt message by using Playfair algorithm.** | |
| **Relationships**  **▪Includes:**  **▪Extends:** | |
| **Input:** Message | |
| **Pre-conditions:** | |
| **Steps:** | . |
| **Actor** | **System** |
|  | 1. System decrypts the message by using Playfair algorithm. |
| **Alternative and exceptional flows:** | |
| **Post-conditions:** | |

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| **Use Case Description** | |
| **System:** Educational encryption system |  |
| **Use Case name:** Decrypt by using vigenere |  |
| **Primary actor:** User | **Other actors:** |
| **Stakeholders:** |  |
| **Description: This use case describes the scenario where the system decrypt message by using Vigenere algorithm.** | |
| **Relationships**  **▪Includes:**  **▪Extends:** | |
| **Input:** Message | |
| **Pre-conditions:** | |
| **Steps:** | . |
| **Actor** | **System** |
|  | 1. System decrypts the message by using Vigenere algorithm. |
| **Alternative and exceptional flows:** | |
| **Post-conditions:** | |

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| **Use Case Description** | |
| **System:** Educational encryption system |  |
| **Use Case name:** Decrypt by using Frequency Analysis. |  |
| **Primary actor:** User | **Other actors:** |
| **Stakeholders:** |  |
| **Description: This use case describes the scenario where the system decrypt message by using Frequency Analysis algorithm.** | |
| **Relationships**  **▪Includes:**  **▪Extends:** | |
| **Input:** Message | |
| **Pre-conditions:** | |
| **Steps:** | . |
| **Actor** | **System** |
|  | 1. System decrypts the message by using Frequency Analysis algorithm. |
| **Alternative and exceptional flows:** | |
| **Post-conditions:** | |