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|  | **Expt. Title :** | Card Details Encryption using RSA |  |
|  | **Description** | RSA (Rivest–Shamir–Adleman) is a public-key cryptosystem that is widely  used for secure data transmission. It is also one of the oldest.   * Due to increasing e-commerce activity nowadays, there is a need for   some encryption technique to ensure security and a way to ensure that  the user’s data are securely stored in the database.   * Thus the system introduces RSA for this purpose. The RSA algorithm is a kind of asymmetric encryption algorithm which appeared in 1978. The algorithm is public key encryption algorithm which is a widely accepted and implemented by public. * The use of RSA in this the system makes the process more secure. Now the bank transactions can be done securely without worrying about attacker getting access to the database as the data will be in encrypted form. | |
|  | **Approach/**  **Algorithms:** | * **RSA.py :-** This file contains implementation of RSA algorithm. | |
|  | **Test Procedures:** | * **Prime.py:-** This file obtain values of p and q.      * **Interface.py:-** This file contains code for Gui     **Payment:-**  In order to perform any transaction here the user needs to provide his  bank information like his Account no, Card no, CVV no and PIN no to make  the payment.    **Encryption:-** The PIN, Account No, CVV no are encrypted using RSA.    **Decryption:-** For getting plain text user have to enter key . If key is correct  then details will be displayed.    If key is wrong | |
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