Software Requirements Specification

for

Encryption Tool

Version 1.0 approved

Prepared by:

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**1. Introduction**

**1.1 Purpose**

This SRS report will go for delineating the general particulars and value of our Encryption Tool. This document will give a point by point summary of the subtle elements of the encryption device and the system and layout essentials. It will lay out the diverse layers of the item and its segments. It will give unpretentious components of the encryption used as a part of the project and the learning viewpoint the gadget gives.

**1.2 Document Conventions**

This SRS record is made in the Arial content style, with headings in content measurement 11 and portrayals in content measurement 12.

**1.3 Intended Audience and Reading Suggestions**

This venture has been outlined and executed with the aid of undergraduate college students, under the department of software engineering. This venture is proposed for general populace and business affiliations and urges all who wish to use the encryption instrument or take in the stray pieces of cryptography in the advanced world.

**1.4 Product Scope**

The item is proposed for people of fluctuating establishments and with no prior learning of cryptography. This item people groups delve into the universe of cryptography and take in its working meanwhile giving them an item that puts to use the very thoughts they learn. The item uses the RSA encryption computation to give secure transmission of data over open channels. It moreover demonstrates the people about RSA and various other encryption systems. Associations can use the item to encode and send tricky information, however the general populace can use it to get some answers concerning the universe of cryptography.

**1.5 References**

**2. Overall Description**

**2.1 Product Perspective**

This SRS report contains the unpretentious components of the items perspective. It gives the ordered components of our item nearby prerequisites, restrictions, assumptions and conditions.

**2.2 Product Functions**

This product serves the accompanying capacities:

• Teaching the customer the stray pieces of cryptography and diverse encryption techniques.

• Allowing customers to take assignments and tests to assess their present capacity w.r.t. what they have learnt.

• Users can encode and decipher abstract data and reports got from any source using the tool.

**2.3 User Classes and Characteristics**

The customers will have the ability to view information in light of their individual essentials and get some answers concerning the diverse cryptographic frameworks at their looked for pace and settlement. They will in a likely manner have the ability to encode and unscramble records basically by moving the archive into the product.

The customer should be familiar with the Windows UI and vital use of a web searcher (Google, Bing, et cetera.). The customer can see any information identifying with any subject related to cryptography by means of chasing down the catchphrase in the given search bar.

**2.4 Operating Environment**

For the system to run suitably the buyer must ensure that on the machines, the Java Runtime Environment is present, in a perfect world the latest version with the objective that all upgrades are fused. Adaptation 7 Update 25 may be downloaded from this website: http://java.com/en/download/index.jsp.

The upside of using java and its runtime surroundings is that it engages the system to continue running on any stage, whether it is Windows, Mac OS, Linux or Solaris. Makes it more conservative and stage independent.

The customer should moreover have a web-program that can run the latest adaptation of HTML and JavaScript (in a perfect world Google Chrome or Firefox).

**2.5 User Documentation**

All customer documentation including customer manual will be available online on the website. Any request can be posted on the discourse available on the site and will be tended to by the producer.

**3. External Interface Requirements**

**3.1 User Interface**

The UI will be delineated using front end vernaculars which will require a web-system to decipher.

Client side advances used are:

• HTML5

• JavaScript

• JQuery

• CSS

Server-side advances include:

• Java

• PHP

• Python

**3.2 Hardware Requirements**

• Microsoft Windows XP Professional SP3/Vista SP1/Windows 7 Professional:

o Processor: 800MHz Intel Pentium III or practically identical

o Memory: 512 MB

o Disk space: 1GB of free plate space

• Ubuntu 9.10:

o Processor: 800MHz Intel Pentium III or practically identical

o Memory: 512 MB

o Disk space: 1GBof free plate space

**3.3 Software Requirements**

• Java Runtime Environment

• Web Browser supporting HTML5, CSS, JavaScript

**4. System Features**

**4.1 Learning instrument**

The item gives abstract information to train the customer the stray pieces or cryptography and diverse techniques for encryption and unscrambling. This allows the customer to tailor-make the course, to suit their learning pace and convenience.

**4.2 Testing instrument**

The item allows customers to check the volume they have learnt by taking online tests and embrace assignments to support their understanding of the subject. These assignments are absolutely purposeful and can be taken by the customer at whatever time in the midst of the course. They offer vacillated inconvenience and propose areas for improvement.

**4.3 Encryption/Decryption device**

The item allows customers to scramble records and send them to a recipient. The recipient can unscramble the record using the same programming. The item uses RSA system to encode and interpret the data securely.

**5. Other Non-Functional Requirements**

**5.1 Safety Requirements**

The mechanical assembly does not bring any damage to your system or data. Regardless of all that we endorse using an Anti-Virus programming to make your download more secure.

**5.2 Security Requirements**

The customer may permit the specialists to assemble obscure use data and distinctive subtle elements. The customer ought to moreover enroll on the webpage to download the gadget and log-into use the website and instrument.

**5.3 Software Quality Attributes**

The Admins and planners will be open to answer the request of the customer and in noticing the request the directors ensure least possible deferral.

The instrument and site will be upgraded if any mix-up is found or the customer conceives that it’s difficult to use.

The customers can report any issues on the site and all baffling usage points of interest will in like manner be used to find any covered botches.

**6. Other Requirements**

The item has the same necessities other than the ones said above.