MINISTRY FOR EDUCATION AND SCIENCE OF RUSSIA

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SAINT PETERSBURG ELECTROTECHNICAL UNIVERSITY

«LETI»

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**APPROVED**

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Date, signature

\_\_\_\_\_\_\_\_\_\_\_\_Personal Information Encryption\_\_\_\_\_\_\_\_\_\_\_\_

Project title

STATEMENT OF WORK

SOW\_ PIE\_00.30

        Electronic & Paper

         6 pages

St. Petersburg / Санкт-Петербург

2019

**HISTORY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Version #/ Версия №** | **Author / Кто разработал** | **Data / Дата** | **Short description** |
| 00.10 | *Salwan* | *18.03.19* | *The first version* |
| 00.20 | *Salwan* | *25.03.19* | *Detail requirements, gant diagram* |
| 00.30 | *Salwan* | *01.04.19* | *Architecture, prepared for review* |

**Project team**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
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**СОДЕРЖАНИЕ**

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1. **BASIS FOR DEVELOPMENT**

Development is carried out for this project is by using VB language, it will be divided into four main steps including the interface, coding the ciphering method, design the database and final running, designing and reading the card.

Personal Information Encryption

Project nickname: PIE

1. **DEVELOPMENT GOALS**

The software project is intend to create an easier way, more secured and more convenient way of finding the saving personal information, such as files, names, ages, location. etc. of one or multiple people by giving each person a specific code that could be easily find just by scanning the code of that person, each person has his own unique code that him and only him has it

1. **HIGH LEVEL REQUIREMENTS**

1- Graphic user interface

2- Designing a database

3- Transferring users information (names, ages, heights, phones numbers. etc)\*

\*For now, it only includes text information

4- Giving random numbers to each user after transferring the information to the database so that when the code is scanned and deciphered it would be easier for the program to find the meant user

5- Designing a specific pattern for each user (code pattern)

7- Scanner platform for reading the codes

1. **KEY MILESTONES**

1- Develop the interface

2- Develop the database

3- Develop the coding

4-Devople the way of enciphering

5- Designing the pattern

6- Transferring patterns to numbers

7- Reading numbers and matching them to the database

8- Recall the information saved into the database to the interface

|  |  |  |  |
| --- | --- | --- | --- |
| **## / №** | **Start date** | **End date** | **Description** |
| 1 | 18.03.19 | 25.03.19 | SOW developed, reviewed and signed / |
| 2 | 25.03.19 | 01.04.19 | Designing the code |
| 3 | 01.04.19 | 08.04.19 | Designing the database and connect it to the program |
| 4 | 08.04.19 | 15.04.19 | Testing the coding of the enciphering method and its connection to the database |
| 5 | 15.04.19 | 22.04.19 | Designing the interface of the whole program |
| 6 | 22.04.19 | 29.04.19 | Attaching the code to the interface and testng the program |
| 7 | 29.04.19 | 06.05.19 | Coding the scanning way of reading the code |
| 8 | 06.05.19 | 13.05.19 | Course project completed, presentation and final report prepared for defense |

1. **CHOSEN TECHNOLOGY AND DEVELOPMENT FRAMEWORK**

The technologies and development framework was made by VB language coding using Windows WPF, the UI was created by using XMAL (Extensible Application Markup Language) and the program used to connect all these together Visual Studio.

1. **DEVELOPMENT MODEL**

Implementing the project, we will use the Microsoft Visual Basic for development, implementing and running it.

First of all, creating the graphical interface which will be running as an .EXE program, inside here we'll find all the needed information for designing our card.

Inside the program there are many options, but the main ones are read a card, scan a card and insert information.

Inside each part we'll be finding an interface with detailed notes on how it works, for example we'll be taking the inserting information option since it's the easiest one. Inside here we are going to find fields each one of them contains one option, name of the user, age, height, phone number, birthday, address, etc, after putting all the options correctly the program starts its job by transferring this data into a code that only the program can read. After that putting them into a line inside the database.

The enciphering part is the hardest one since it has a unique way of encryption that no other program can decipher it.