**Security of Computer Systems**

**Project Report**

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Version: 1.0

**Versions**

|  |  |  |
| --- | --- | --- |
| Version | Date | Description of changes |
| 1.0 | 08.04.2025 | Creation of the document |

1. **Project – control term**
   1. ***Description***

The main aim of this project is to create an app which will allow user to sign and verify the PDF document signage. Also, app has to allow user to generate a pair of RSA keys to make all operations possible.

* 1. ***Results***

App was created in Python with usage of PyQT5 UI library.

Obraz zawierający tekst, zrzut ekranu, oprogramowanie, wyświetlacz

Zawartość wygenerowana przez sztuczną inteligencję może być niepoprawna.

*Obraz zawierający tekst, zrzut ekranu, oprogramowanie, wyświetlacz

Zawartość wygenerowana przez sztuczną inteligencję może być niepoprawna.*

Key Management section allow to select keys storage directories and create a new key pair.

Sign Document section allow to select document to sign. After successful signing, a message box will appear.

Then, signature can be verified in Verify Signature Section

* 1. ***Summary***

Application works in expected way. All critical methods are implemented using *try… except* mechanism to handle errors during its execution.

1. **Project – Final term**
   1. ***Description***

Content

* 1. ***Code Description***

Content

|  |
| --- |
| /\*!  \* A list of events:  \* <ul>  \* <li> mouse events  \* <ol>  \* <li>mouse move event  \* <li>mouse click event<br>  \* More info about the click event.  \* <li>mouse double click event  \* </ol>  \* <li> keyboard events  \* <ol>  \* <li>key down event  \* <li>key up event  \* </ol>  \* </ul>  \* More text here.  \*/ |

*List. 1 – Code listing [2].*

Final Content.

* 1. ***Description***

Content

* 1. ***Results***

Content

* 1. ***Summary***

Content

1. **Literature**

[1] <https://en.wikipedia.org/wiki/PAdES> [accessed on 08.04.2025]

[2] Project instruction.