***Digital Signature Application – User Guide***

***1. Introduction***

*Welcome to the* ***Digital Signature Application****! This guide will help you use the application to sign messages and PDF files securely, verify signatures, and manage encryption keys.*

***2. Features***

* ***Sign Messages and PDFs*** *– Generate secure digital signatures for text or documents.*
* ***Verify Signatures*** *– Ensure that a signature is authentic.*
* ***Manage Keys*** *– Save, load, and reuse encryption keys.*
* ***Customize Appearance*** *– Adjust the theme, font, and colors to your preference.*

***3. Installation & Setup***

***Requirements***

* *Ensure you have* ***Python*** *installed (if required).*
* *Install necessary dependencies (PySide6, PyPDF2, cryptography).*

***Steps***

1. ***Download and Install*** *the application.*
2. ***Run the Application*** *by double-clicking its icon or launching it from your applications list.*

***4. Application Interface***

*When you open the application, you will see three main sections:*

1. ***Digital Signature*** *– Create and verify digital signatures.*
2. ***Settings*** *– Customize the interface (themes, fonts, colors).*
3. ***About*** *– View application details.*

***5. How to Use the Application***

***5.1 Signing a Message***

1. *Navigate to the* ***"Digital Signature"*** *tab.*
2. ***Select an Algorithm*** *(RSA or DSA).*
3. ***Enter Your Message*** *in the text field.*
4. *Click* ***"Sign Message"****.*
5. *The* ***Digital Signature*** *will appear; copy it for later use.*

***5.2 Signing a PDF File***

1. *Click* ***"Sign PDF File"****.*
2. *Select the* ***PDF file*** *to sign.*
3. *A new signed PDF with "\_signed" added to the filename will be created.*

***5.3 Verifying a Signature***

1. *Go to the* ***"Verify Signature"*** *tab.*
2. *Select the* ***same algorithm*** *used for signing.*
3. ***Enter the Original Message****.*
4. ***Paste the Signature****.*
5. *Click* ***"Verify Signature"****.*
6. *The application will confirm whether the signature is valid or not.*

***6. Key Management***

***6.1 Exporting (Saving) Keys***

* *Click* ***"Export Keys"*** *to save the private and public keys.*
* ***Important:*** *Keep the private key safe and do not share it.*

***6.2 Loading (Importing) Keys***

* *Click* ***"Load Private Key"*** *and* ***"Load Public Key"*** *to reuse previously saved keys.*

***7. Customizing the Application (Settings)***

1. *Navigate to the* ***"Settings"*** *tab.*
2. ***Choose a Theme*** *– Dark Mode or Light Mode.*
3. ***Select Font Style & Size****.*
4. ***Pick an Accent Color****.*
5. *Click* ***"Apply Settings"*** *to update the interface.*

***8. Troubleshooting & Support***

* *If you see an* ***error message****, follow the instructions displayed.*
* *For additional support, check the application’s* ***Help menu*** *or contact customer support.*

***9. Summary***

*The* ***Digital Signature Application*** *is designed for secure and easy digital signing and verification. You can manage encryption keys, customize the interface, and ensure data integrity with minimal effort.*