CLAIMS

1. An electronic approval system comprising a plurality of electronic approval devices and an electronic approval server,

each of the electronic approval device including:

a first communication unit which communicates with the electronic approval server via an information processing device;

a biometric authentication unit which performs biometric authentication; and

a security chip which generates reliability confirmation information using a private key stored in advance if a result of the biometric authentication is normal, and which transmits the reliability confirmation information to the electronic approval server via the information processing device, and

the electronic approval server including:

a second communication unit which communicates with the electronic approval device via the information processing device; and

a processor which stores electronic approval records if it is determined that approval has been successfully performed in all of the electronic approval devices associated with the electric approval records based on a public key corresponding to the private key and the reliability confirmation information transmitted from each of the electronic approval devices, and stores an

electronic imprint image in association with document data as each of the electronic approval records.

2. The electronic approval system of claim 1, wherein:

the processor stores the electronic approval record by inserting the electronic imprint image into document data.

3. The electronic approval system of claim 1 or 2, wherein the processor:

transmits to an external server the reliability confirmation information received from the electronic approval device and electronic approval record identification information for identifying the electronic approval record; and

receives from the external server information indicating whether approval in the electronic approval device has been successfully performed.

4. The electronic approval system of claim 1, wherein:

the processor stores the electronic approval record by inserting the electronic signature image into document data.

5. The electronic approval system of one of claims 1 to 4, wherein:

the reliability confirmation information is a random number and encrypted data in which the random number is encrypted by a private key; and

the processor stores the electronic approval record if the encrypted data decrypted by the public key matches the random number.

6. An electronic approval server comprising:

a communication unit that communicates via an information processing device and an electronic approval device including a biometric authentication unit which performs biometric authentication and a security chip which generates reliability confirmation information using a private key stored in advance when a result of the biometric authentication is normal; and

a processor which stores electronic approval records if it is determined that approval has been successfully executed in all the electronic approval devices associated with the electric approval records based on a public key corresponding to the private key and the reliability confirmation information transmitted from each of the electronic approval devices, and stores an electronic imprint image in association with document data as each of the electronic approval records.

7. An electronic approval program causing an electronic approval server, which communicates with, via an information processing device, a plurality of electronic approval devices which performs biometric authentication and generates reliability confirmation information using a private key stored in advance if a result of the biometric authentication is normal, to execute:

receiving the reliability confirmation information from each of the electronic approval devices via the information processing device,

determining whether approval has been successfully performed in all of the electronic approval devices associated with electric approval records based on a public key corresponding to the private key and the reliability confirmation information; and

storing the electronic approval records corresponding to the electronic approval devices if it is determined that approval has been successfully executed in all of the electronic approval devices associated with the electric approval records, and storing an electronic imprint image in association with document data as each of the electronic approval records.

8. A computer-readable storage medium storing an electronic approval program causing an electronic approval server, which communicates with, via an information processing device, a plurality of electronic approval devices which performs biometric authentication and generates reliability confirmation information using a private key stored in advance if a result of the biometric authentication is normal, to execute:

receiving the reliability confirmation information from each of the electronic approval devices via the information processing device,

determining whether approval has been successfully performed in all of the electronic approval devices associated with electric approval records based on a public key corresponding to the private key and the reliability

confirmation information; and

storing the electronic approval records corresponding to the electronic approval devices if it is determined that approval has been successfully executed in all of the electronic approval devices associated with the electric approval records, and storing an electronic imprint image in association with document data as each of the electronic approval records.