CLAIMS

1. A portable electronic device that executes a command from a host device, comprising:

a sensor configured to acquire biometric information, wherein the biometric information is a fingerprint image; and

a processor configured to:

cause the sensor to acquire first biometric information for generating a template used for authentication;

cause the sensor to acquire second biometric information for generating the template after acquiring the first biometric information; and

not use the second biometric information for template generation where the similarity exceeds the first threshold value and where the similarity is lower than a second threshold value that is lower than the first threshold value;

output a signal indicating that the second biometric information is inappropriate for use as biometric information for generating the template, where a similarity between the first biometric information and the second biometric information exceeds a first threshold value.

2. The portable electronic device according to claim 1, wherein the processor is configured to generate the template, based on the first biometric information and the

second biometric information, where the similarity is equal to or less than the first threshold value.

3. The portable electronic device according to either one of claims 1 and 2, further comprising:

a display unit,

wherein the processor is configured to cause the display unit to display an error, where the similarity exceeds the first threshold value.

4. The portable electronic device according to any one of claims 1 through 3, further comprising:

a communication unit that is configured to transmit/receive data to/from the host device,

wherein the processor is configured to cause the communication unit to transmit a response indicating that acquisition of biometric information has failed to the host device, where the similarity exceeds the first threshold value.

5. The portable electronic device according to any one of claims 1 through 4, wherein the sensor and the processor are included in a module; and

the portable electronic device further comprises a casing incorporating the module.

6. The portable electronic device according to any one

of claims 1 through 5, wherein the portable electronic device is an IC card.

7. A program executed by a processor and causing the processor to realize:

a function in which a biometric acquiring sensor acquires first biometric information for generating a template used for authentication, wherein the first biometric information is a first fingerprint image; and

a function in which the sensor acquires second biometric information for generating the template, after acquiring the first biometric information, wherein the second biometric information is a second fingerprint image; and

a function in which a signal indicating that the second biometric information is inappropriate for use as biometric information for generating the template is output, where the similarity is lower than a second threshold value that is lower than the first threshold value;

a function in which a signal indicating that the second biometric information is inappropriate for use as biometric information for generating the template is output, where a similarity between the first biometric information and the second biometric information exceeds a first threshold value.