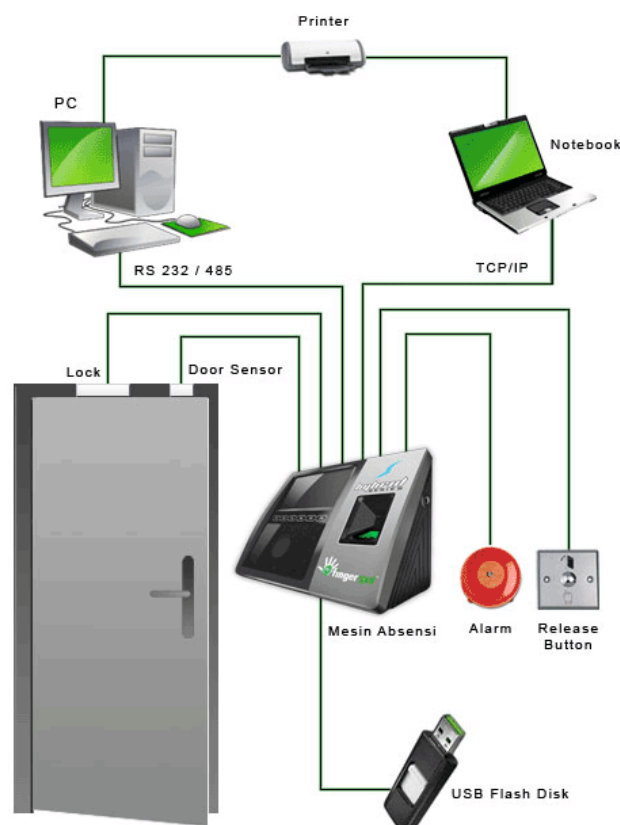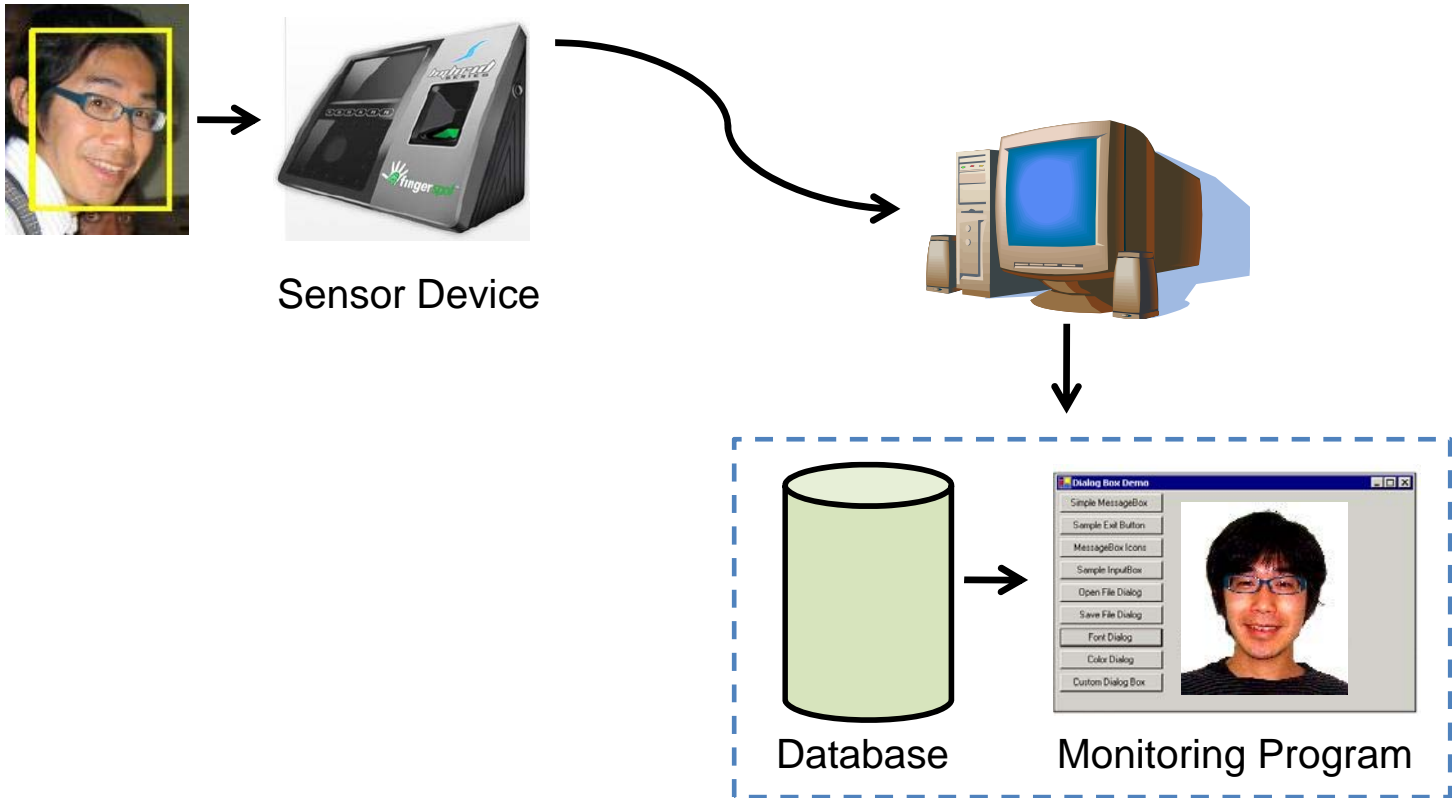# Lecture on Face Recognition Implementation

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Hardware Interconnection

Monitoring System Design

Sensor Device

Database   Monitoring Program

Building Database Program

- o Building a database program is a lot like building any complex application.

- o It start with a set of requirements, analyze the requirements, build something, and then test and revise until it satisfies the requirements.

- o Building a database program is also similar to building any application, but building something that works well can be difficult.

- o The following practices explain this process using a simple order example for illustration.

Database with SQL

- Design tools for building database: MS Access, SQL Server, Oracle, and other database tools.

- One problem with these design tools is that they are all different.

- Fortunately, all databases tool support SQL (Structured Query Language) for building and manipulating relational databases and their content.

- SQL includes statements for adding, selecting, ordering, and deleting records. It also contains statements for defining the database structure.

- SQL script can creates the database's tables and defines the relations between them.

Datasets

- The DataSet object sits at the heart of a large family of objects that correspond closely to objects in a database.

- The DataSet contains DataTable objects corresponding to database tables. A DataTable contains DataRow, DataColumn, and constraint objects that correspond to rows, columns, and constraints on the data.

- The following practices will explain and shows how to use Datasets, and provides some simple examples.

Visual Basic Practice & Exercise

- Create Windows Application
- Add Windows Form
- Select Startup Windows Form
- Add New Datasource
- Attach a Database Tables
- Display Data in Windows Form
- Create Detail Windows Form
- Customizing Windows Form

Training Tools

1. Microsoft Visual Basic 6.0
2. Attendance Management (Fingerspot CD)
3. Fingerspot Device Sensor
4. HUB,Switch,Cable,etc.

References

1. Vidya Vrat Agarwal and James Huddleston, *Beginning VB 2008 Databases From Novice to Professional,* Apress & Springer-Verlag, 2008.

2. Jerry Lee Ford, Jr., *Microsoft Visual Basic 2008 Express Programming for the Absolute Beginner*, Course Technology PTR, 2009.

3. Bill Evjenm, Billy Hollis, Bill Sheldon, and Kent Sharkey, *Professional Visual Basic 2008*, Wiley Publishing, Inc., 2008.

Murakoze