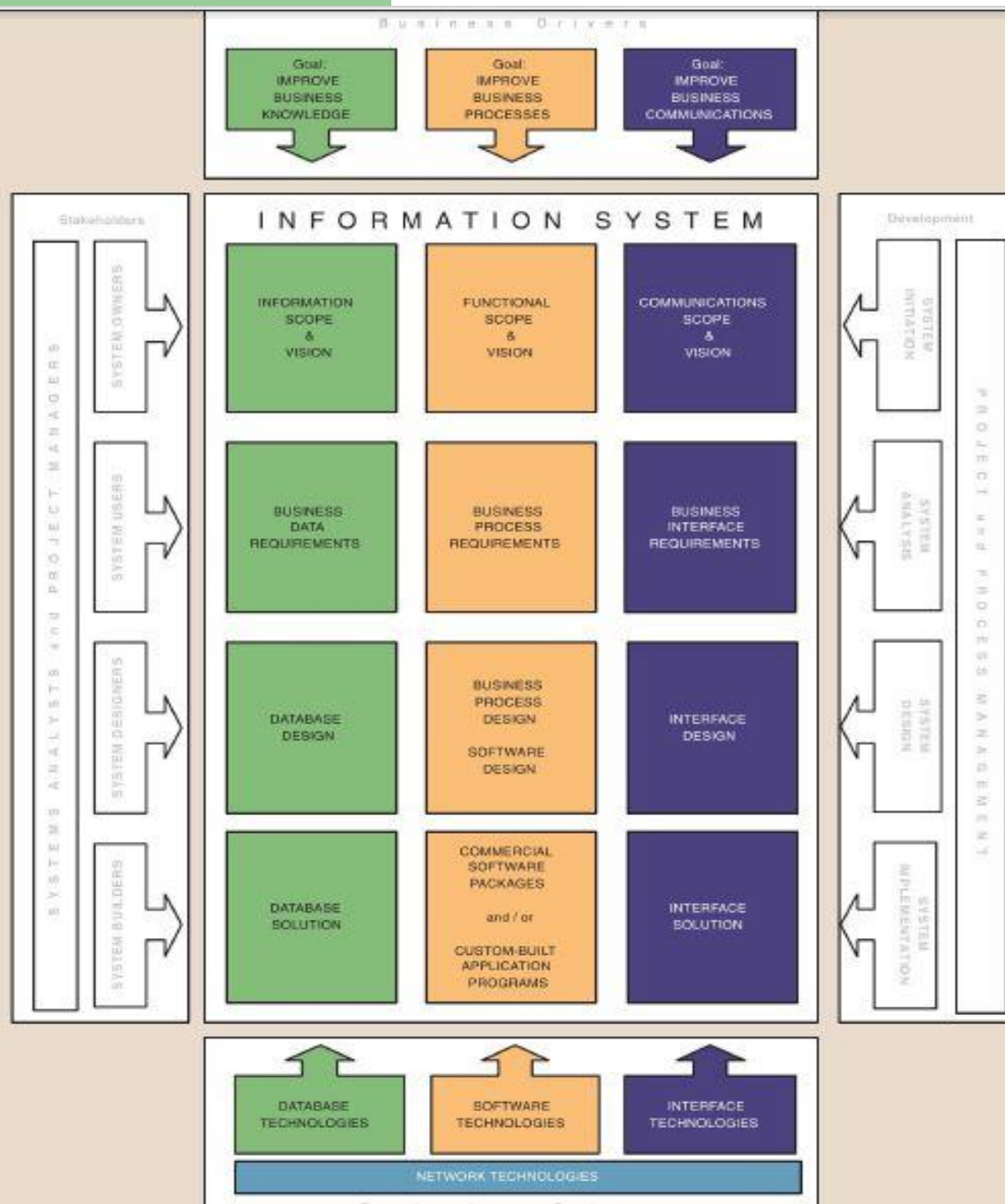


# **Unit 2:Information System Building Block:**



# Topics to be Covered

- Information System
- Framework of the Information System
- Knowledge Building Block
- Process Building Block
- Communication Building Block
- View of stakeholders in Different Building Block



# The Product- Information System

- **Front office Information system** : It is an information system that supports business function that extends out to the organization's customer.
- **Back office Information system**: It is an information system that supports internal business operation of an organization.

# Information System Architecture

- It is a unifying framework into which various stakeholders with different perspective can organize and view the fundamental building blocks of information system.
- It provides a foundation for organizing the various component of any information system you care to develop.

# Knowledge Building Block

- Improving Business knowledge is the goal of an information system.
- It is derived from data and information.
- Knowledge is what enables a company to achieve its mission and vision.

# System owners view of Knowledge

- System owner interested in information that adds new business knowledge.
- It helps managers to make intelligent decision.
- They are concerned with the big picture.
- They are not interested in entity and the field of information system.
- They define the scope and vision of the project.
- They relate business entities with problems and opportunities.

# System users view of Knowledge

- They capture, store, process, edit and use the data everyday.
- The data can be obtained by using various fact finding technique.
- They are responsible for data requirements.
- Data requirements is a representation of user's data in terms of entity, attributes and rules.



# System Designer view of Knowledge

- They translate the data requirements into database design.
- They make data structure, database schema, fields and indexes.
- The system designers' view of data is constrained by the limitations of whatever database management system (DBMS) is chosen.

# System Builder view of Knowledge

- They are closet to the actual database management system.
- They represent the data in very precise and unforgiving language.
- The most commonly used database language is SQL( Structure Query Language).

# Process Building Block

- It deals with software technology that will be used to automate selected process.
- Processes are used to solve business function.
- Business function is a group of related processes that support the business. Functions can be decomposed into other subfunctions.

# System owners view of Process

- They do not focus on work flow and procedures.
- They focus on services that is provided to customers suppliers and other persons.
- They see the IS as a big picture.

# System users view of Process

- They are responsible for user's expectations and the processing requirements for a business process and its information system.
- The process requirement is collected in the form of activities, data flow and workflow.
- Processes are defined in terms of policies and procedures

# System Designer view of Processes

- Software specification is developed by the designers.
- It is the technical design of business processes to be automated or supported by computer programs to be written by system builders.
- To fulfill the business process requirements of system users.
- To provide sufficient detail and consistency for communicating the software design.

# System Builder view of Process

- They build the system by using precise programming language.
- Different types of technique can be used for programming like: prototyping.
- Some of the programming languages are C++, Visual Basics and C#.

# Communication Building Block

- The main target of communication building block is to improve communication and collaboration between employee and constituents.
- It deals with the interface that is given by development team to the information system.



# System owners view of Communication

- Owner deals with
  - Employees and customers to whom the system is going to interact.
  - Different location of the departments

# System users view of Communication

- System users are responsible for input and output design of any system.
- They define the forms according to fields.
- They try to make the system same as a software like word and excel.

## System Designer view of Communication

- They are responsible for interface specification.
- It is a technical design that document how system users are interact with a system and how a system interact with other system.
- They find or built interfaces between technology of new system and system users.

# System Builder view of Communication

- They use ADE to make the interface between software and database.
- They make the Middle for communication
- MIDDLEWARE is a utility software that allows application software and system software that utilize differing technologies.

# Questions and Discussion

