



# Fact Finding Techniques...

## Interviews...

How to conduct an *Interview*?

### Select Interviewees



- @ Interview the end users of the information system you are studying.
- @ A formal organizational chart will help you identify these individuals and their responsibilities.
- @ Always make an appointment with the interviewee.
- @ Higher the management level of the interviewees, less time should be spent.

# Fact Finding Techniques...



## Interviews...

How to conduct an *Interview*?

Prepare for the Interview

**Prepare an *interview guide*** - checklist of specific questions interviewer will ask the interviewee

Avoid the type of questions such as:

- Ⓢ *Loaded* questions e.g. Do you need to include both of these columns for this report?
- Ⓢ *Leading* questions e.g. You are not going to use this operator code, are you?
- Ⓢ *Biased* questions e.g. How many codes do we need for food classification in the inventory file? I think 20 should cover it ?

# Fact Finding Techniques...

## Interviews...

How to conduct an *Interview*?

Prepare for the Interview

**Interview question guidelines :**

- ④ Use clear and concise language
- ④ Don't include your opinion as part of a question
- ④ Avoid long or complex questions
- ④ Avoid threatening questions
- ④ verify before you leave



The purpose of the interview is to investigate, not to evaluate or criticize

# Fact Finding Techniques...

## Interviews...

How to conduct an *Interview*?

Conduct the Interview

The actual interview consist of three phases:

***Interview Opening*** : Intended to influence or motivate the interviewee to participate

***Interview body*** : Obtain interviewee's response to your list of questions

***Interview conclusion*** : Express your appreciation. Important for maintaining good relationship and trust.

# Fact Finding Techniques...



## Prototyping

- Building a small working model of the users' requirements or a proposed design for an information system
- Usually a design technique
- Can also be used to perform fact-finding requirement analysis (discovery prototyping)
- Allows analyst to quickly create mock forms and tables to simulate the implemented system.

# Fact Finding Techniques...

## Prototyping...

**Analyst will develop a model following an initial analysis**

**A repeat visit may then validate the model with the user**

**Agreement is reached on the model**

**Further detailed data may be gathered to elaborate the model**

# Fact Finding Techniques...

## Prototyping...

This iterative approach serves a number of purposes:

- there is always a record of information gathered to date
- ensures correctness of the information as you continually verify the results with the user
- Analyst does not get too far ahead using wrong assumptions

# Fact Finding Techniques...

## Prototyping...

### Advantages

- ✦ Allow users and developers to experiment with the software and develop with an understanding
- ✦ Helps to determine feasibility and usefulness of the system
- ✦ Minimize the time spent for fact-finding and help define more stable requirements.

# Fact Finding Techniques...

## Prototyping...

### Disadvantages

- ✦ Developer may need to be trained in the prototyping approach
- ✦ Prototype can only simulate system functionality and are incomplete in nature.
- ✦ May extend the development schedule
- ✦ Increase the development costs

# Fact Finding Techniques...

## Joint Requirement Planning (JRP)



- ❑ Highly structured group meetings are conducted to analyze problems and define requirements.
- ❑ JRP is a subset of a more comprehensive joint application development or JAD technique

# Fact Finding Techniques...

## Joint Requirement Planning (JRP)



### JRP Participants

#### Sponsor

Serve as JRP champion. Single person in top management who makes the final decision

#### Facilitator

Single individual who plays the role of the leader or facilitator. Someone who has excellent communication skills

# Fact Finding Techniques...

## Joint Requirement Planning (JRP)...

### JRP Participants...

#### Users and Managers

Number of participants from the user and management.  
Both users and managers are relied on to ensure that their critical success factors are being addressed

#### Scribes

Those who are keeping responsible for keeping records pertaining to everything discussed in the meeting.  
System analysts frequently play this role

# Fact Finding Techniques...

## Joint Requirement Planning (JRP)...

JRP Participants...

### **IT Staff**

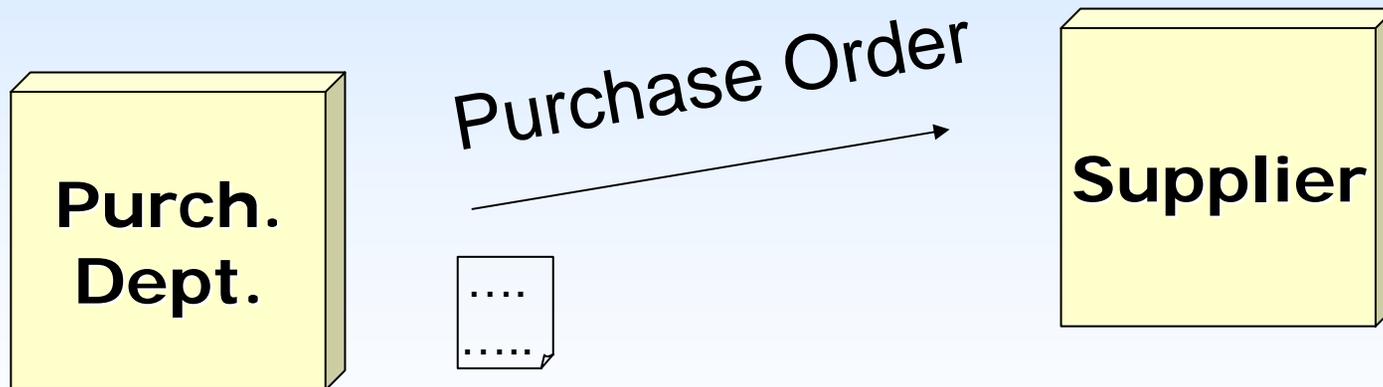
**IT personnel who primarily listen and take notes regarding issues and requirements. Usually consists of members of the project team.**

Refer page 229-234 Ref1

# Fact Finding Techniques...

## Document Flow Diagrams

- Used to identify physical movement of documents.



# Fact Finding Techniques...

## Document Flow Diagrams...

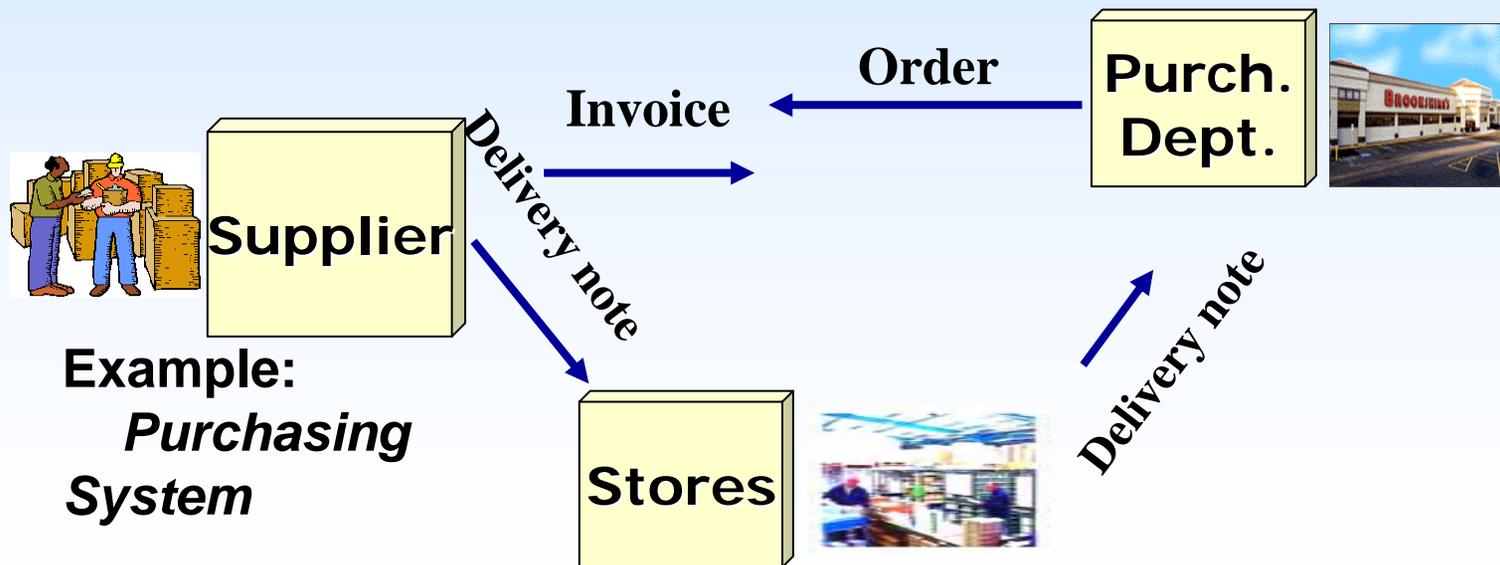
- shows
  - where the document comes from,
  - where it goes to , and
  - what it is called.



# Fact Finding Techniques...

## Document Flow Diagrams...

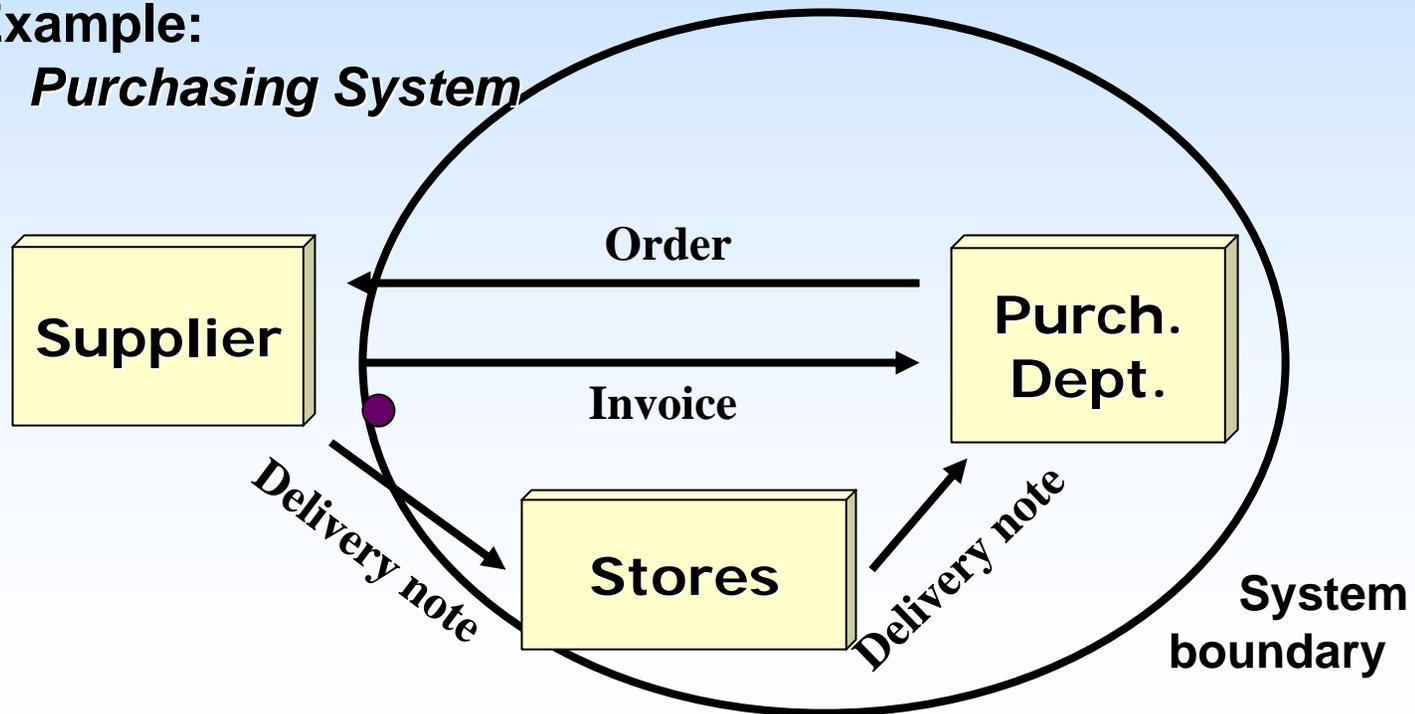
Used to examine the flow of documents within the existing system.



# Fact Finding Techniques...

## Document Flow Diagrams...

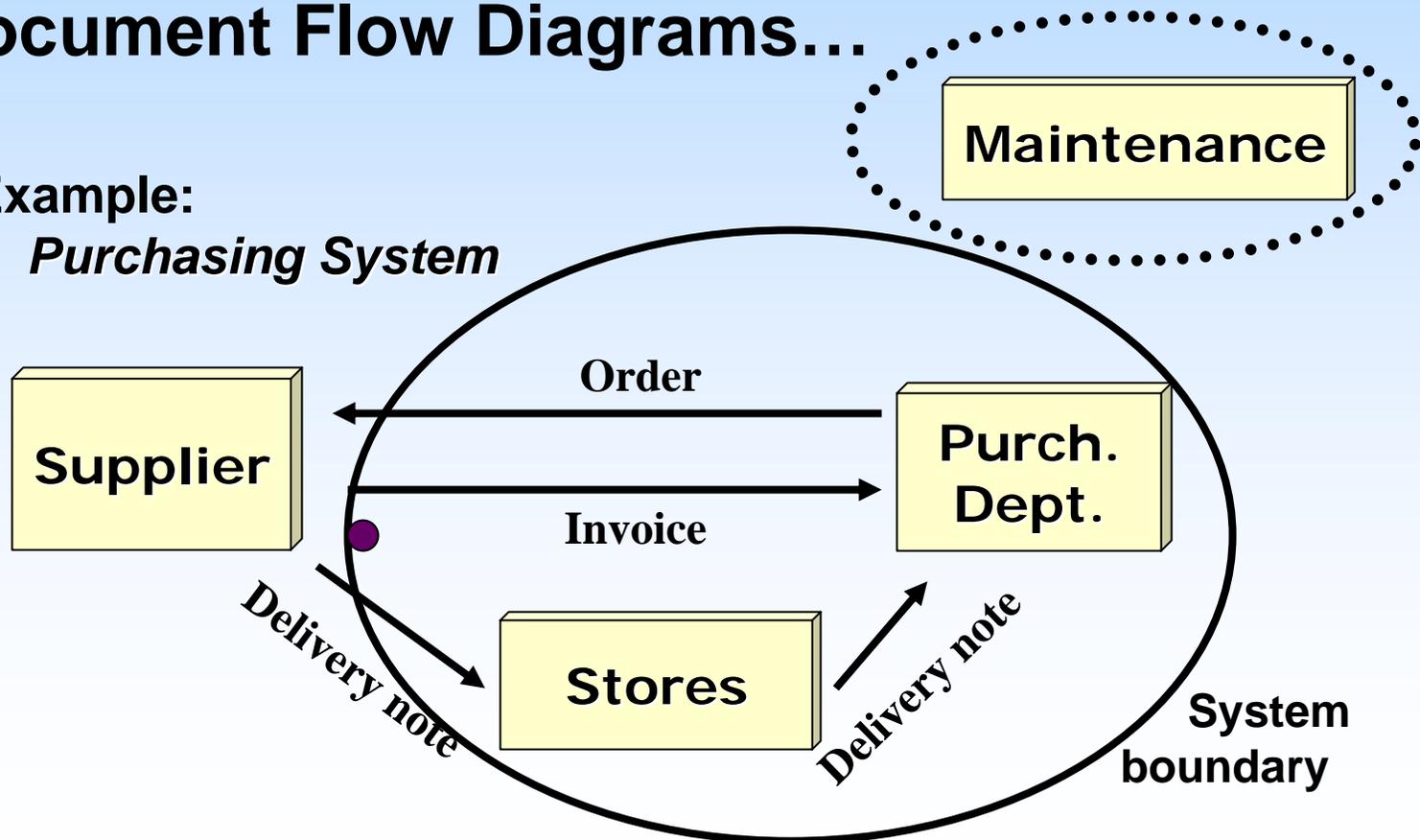
Example:  
*Purchasing System*



# Fact Finding Techniques...

## Document Flow Diagrams...

Example:  
*Purchasing System*

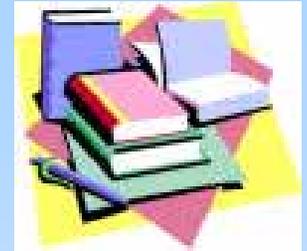


# Fact Finding Techniques...

## Document Flow Diagrams...

### Advantages / Usefulness

- ❑ **Used to identify the documents in the system**
- ❑ **Identify the flow of documents**
- ❑ **To understand the workflow of the existing system**
- ❑ **Used to define the system boundary**
- ❑ **Used to draw Data Flow Diagrams after further analyzing**



# Documentation

**Documentation is both a communication tool and a management tool.**

## **It is a communication tool :**

- because it contains a repository of all work done to date and makes it available to all persons working on related parts of a large project.
- Such a repository can prevent unnecessary repetitions when someone leaves the project team.
- Proper documentation ensures that all the information developed about the system is always available to new people joining the project.



# Documentation...



Documentation is also a management tool:

It supports management in two ways:

- **gives access to the latest work to all project personnel and thus reduces the chance of work having to be repeated.**
- **is the only project deliverable, specially in the early project phases, and thus serves to determine project status and progress. Is also a part of the phase output.**

# Documentation...

- Requirement Definition Document
  - A formal document that communicates the requirements of a proposed system to key stakeholders
  - Serves as a contract for the systems project
  - Final deliverable of the requirements analysis phase
  - Also known as requirements statement, requirements specification, and functional specification.

# Documentation...

- Requirement Definition Document
  - Consists of
    - Functions and services the system should provide
    - Nonfunctional requirements (system's features, characteristics, and attributes)
    - Constraints
    - Information about other systems with which the system must interface
  - No standard format for the document

**Refer page 214 Ref1 Figure 6-2 (Sample Requirements Definition Outline)**

# Documentation...

- Requirement Definition Document
  - Readers of the document
    - **System Owners and Users (to specify their requirements and any changes that may arise)**
    - **Managers (to prepare project plans and estimates)**
    - **Developers (to understand what is required and to develop tests to validate the system)**