

## **Lab 5**

### **2. Example Case Study – Correspondence courses**

A college offers correspondence courses to students. Each course lasts 20 weeks and is based on a weekly study module and progress test. At the end of the course students sit an invigilated examination.

The college Registrar deals with enquiries and applications, and students applying who have sufficient qualifications are asked to register by completing and submitting an application form.

After approval by the Academic Director, the application form is returned to the Registrar who creates a student file. The Accounts department receive the application form and using information from the student file creates an invoice that is sent to the student. Payments made are registered on the invoice file. The first batch of student material and tests is issued from the library only to students who have paid fees (this information is taken from the invoice file).

Progress tests are marked by academic staff and the results, together with comments, are sent out with next week's study block. The library will only issue study material/progress tests when a student has returned test answers from the previous week.

### **Solution:**

#### **Step 1: Identify the processes**

- Application

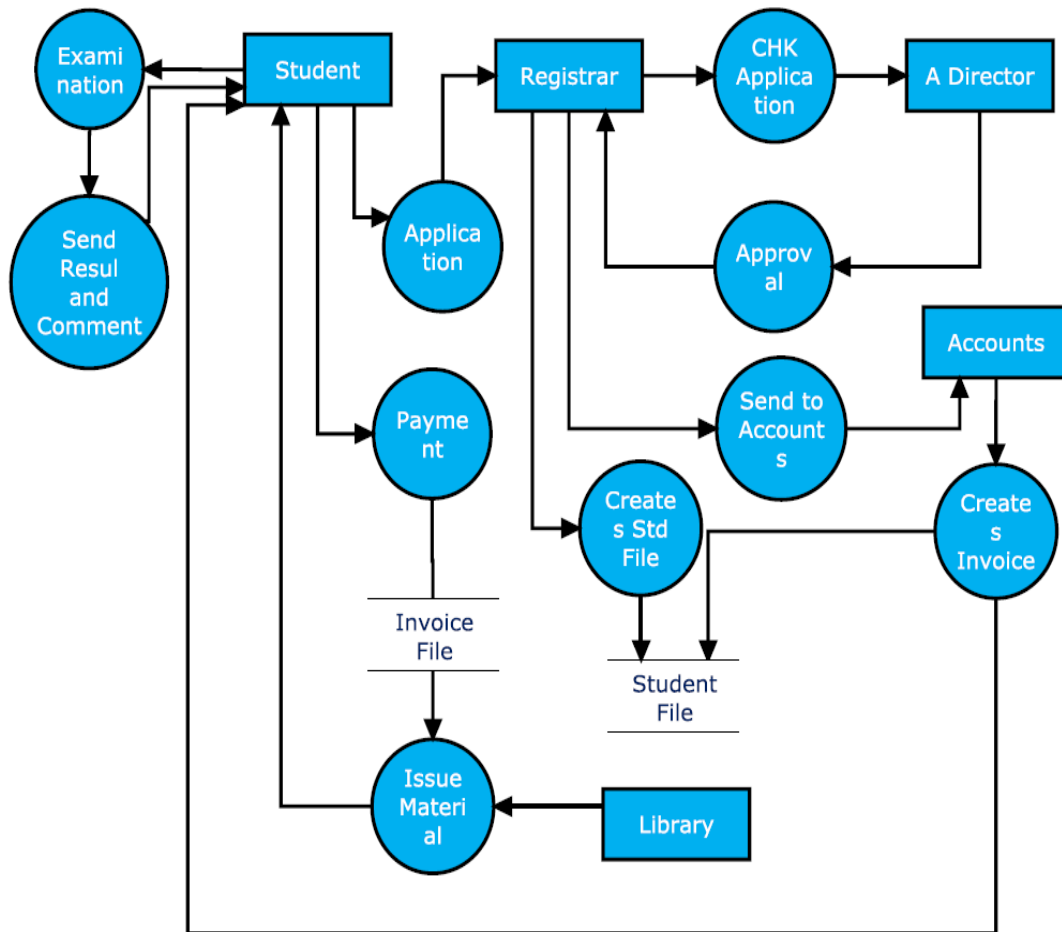
- CHK Application
- Approval
- Create Student File
- Send to Accounts
- Create Invoice
- Payment
- Issue student Material
- Send Result and Comments

### **Step 2: Identify the Entities**

- Student
- Registrar
- Academic Director
- Accounts
- Library
- Academic Staff

### **Step 3: Identify the Data Stores**

- Student File
- Invoice file



#### 4. Example Case Study – Online Book Store

In an online book store the customer can Search for a book. If the book is available the customer shall give purchase order. The order will be processed by a process. The order will be processed by taking book information from the book info file and the customer information from the customer info file.

The processed order is assembled by a process “assemble order” and sent to warehouse and at the same time the invoice is created. This invoice is verified by sending a copy to the customer.

If the invoice is ok from the customer side, it is added to the account receivable file.

When the customer makes the payment, the account receivable file is updated with the payment and information and a copy of invoice is sent to the warehouse. On receiving the payment information and invoice the warehouse creates the shipment. The shipment is verified and sent to the customer. After sending the shipment the warehouse sends request to update the book info file.

### **Solution:**

#### **Step 1: Identify the processes**

- Search Book
- Purchase Order
- Process order
- Assemble order
- Create invoice
- Update Account Receivable
- Payment
- Send invoice to warehouse
- Create Shipment
- Update book info

#### **Step 2: Identify the Entities**

- Customer
- Ware House

### Step 3: Identify the Data Stores

- Customer info
- Book info
- Accounts Receivable

