
Suggested Solution:

Data Flow Diagrams - Elements

External Entities:

Customer

Data Stores:

D1 Equipment File

D2 Customer File

D3 Jobs-Waiting File

D4 Schedule File

D5 Invoice File

Processes:

P1 Process Equipment

P1.1 Add Equipment

P1.2 Amend Equipment

P1.3 Print Equipment List

P2 Process Jobs

P2.1 Log Job

P2.2 Schedule Job

P2.3 Check Availability

P2.4 Complete Job

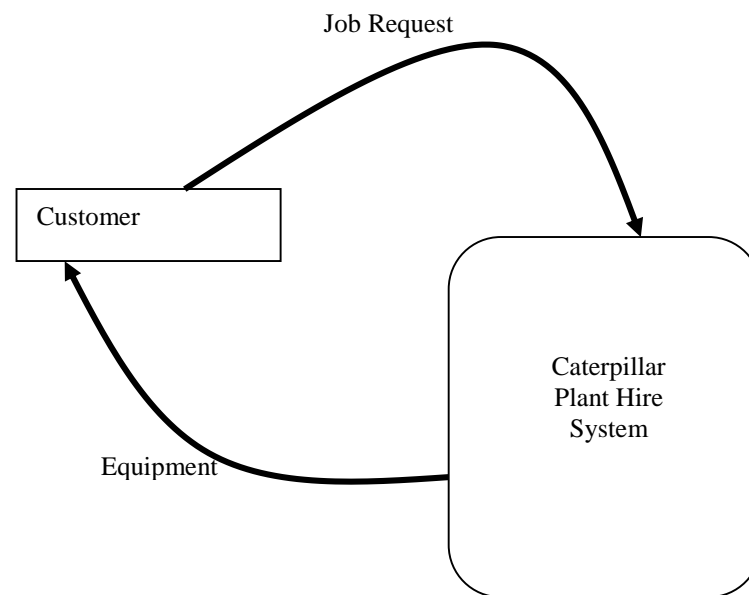
P3 Process Payments

P3.1 Issue Invoice

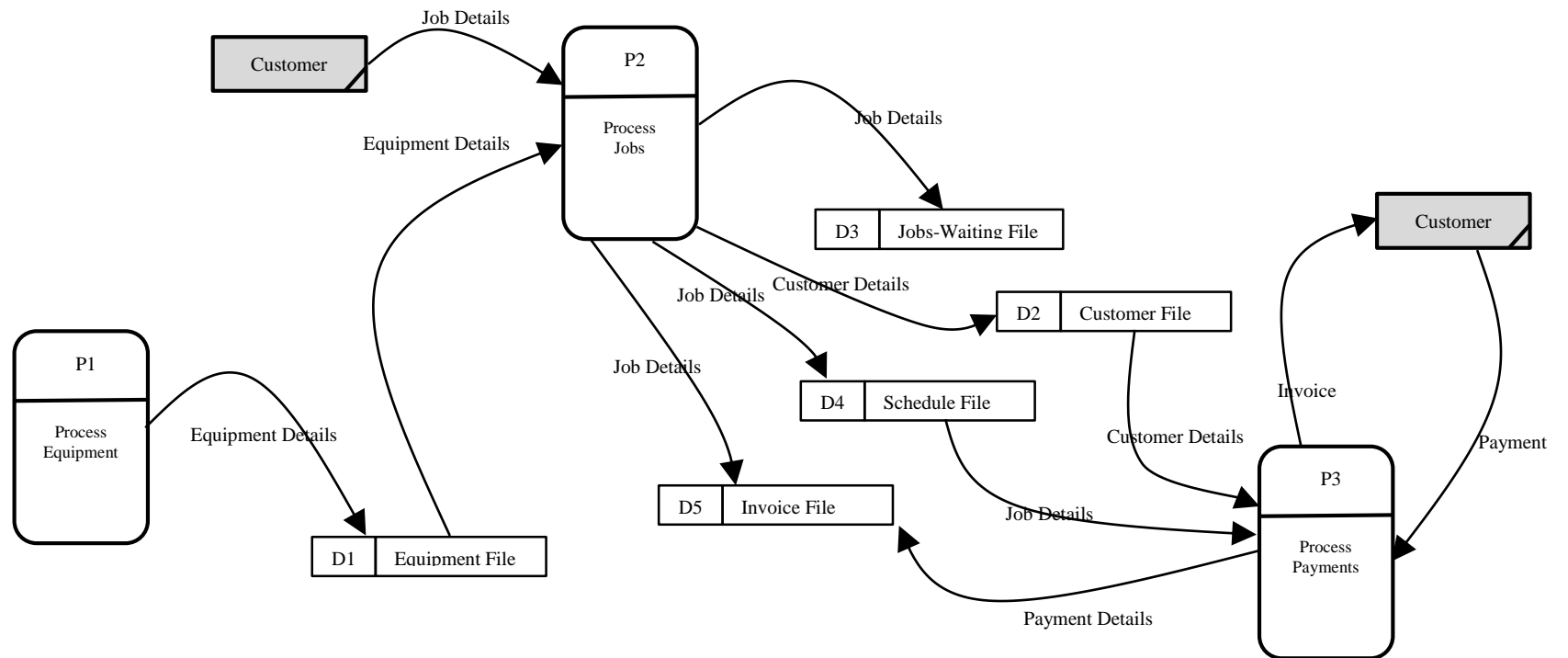
P3.2 Record Payment

P3.3 Summarise Revenues

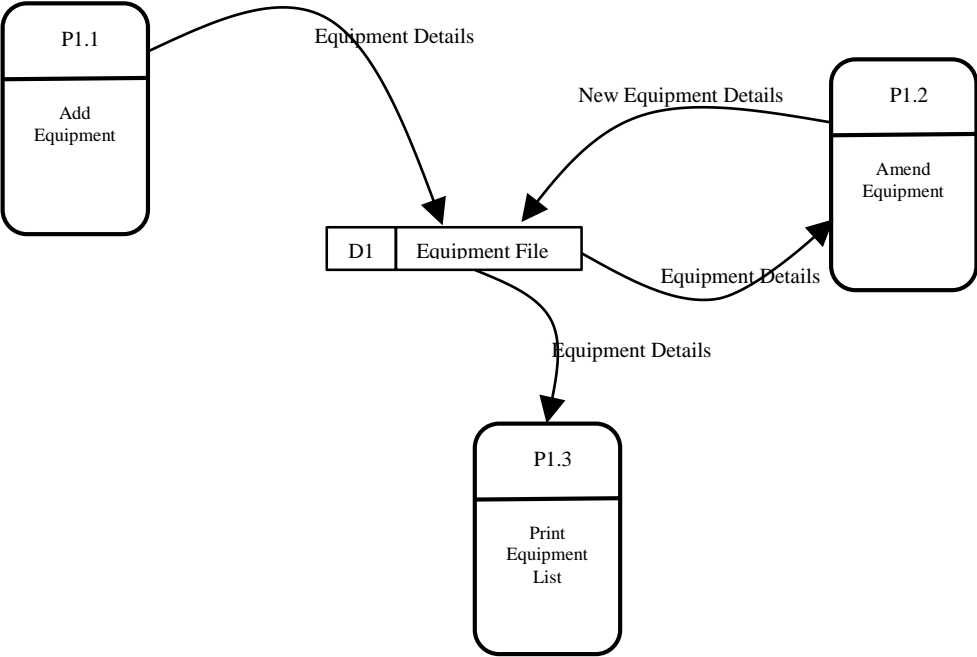
Level-0 DFD



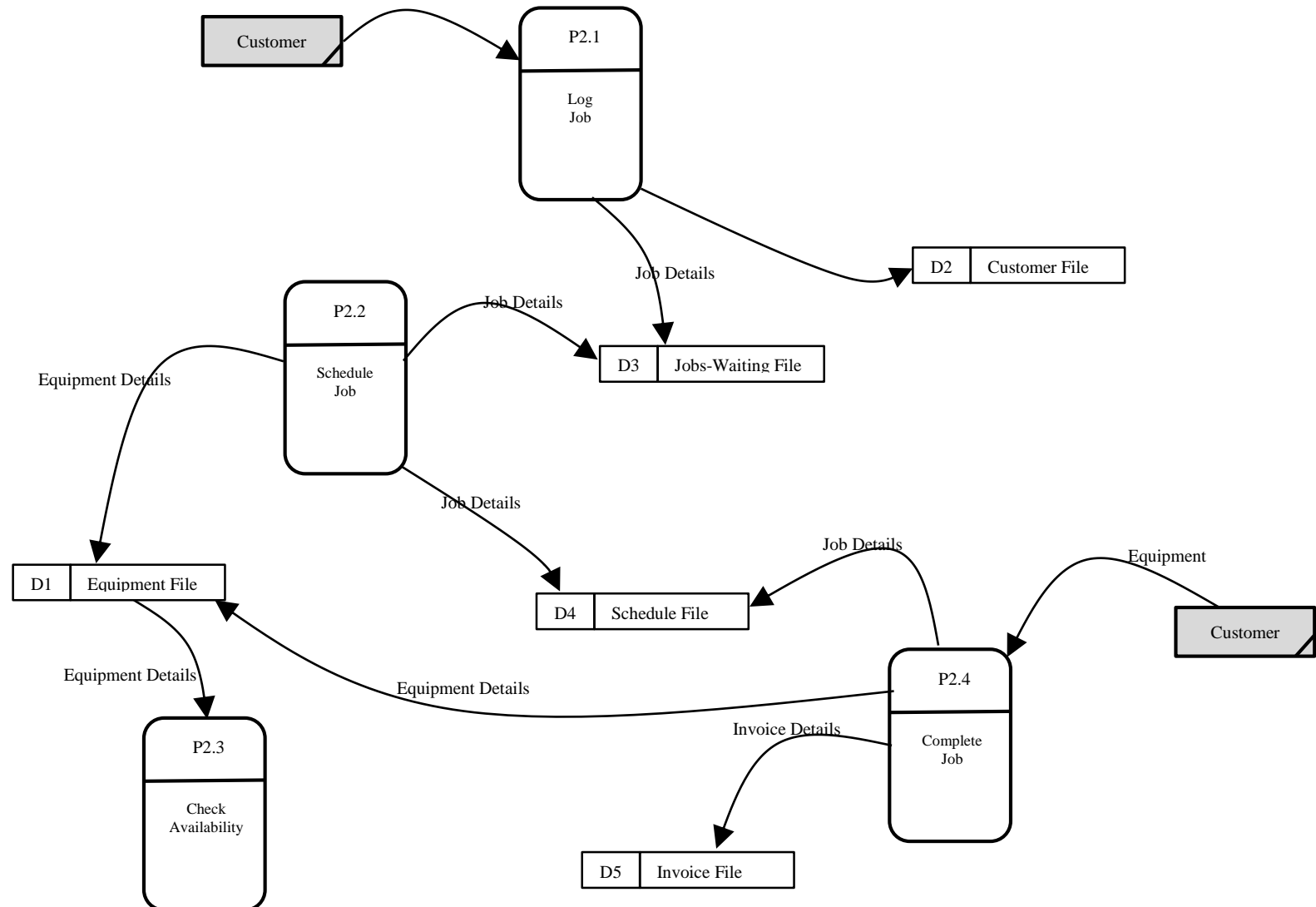
Level-1 DFD



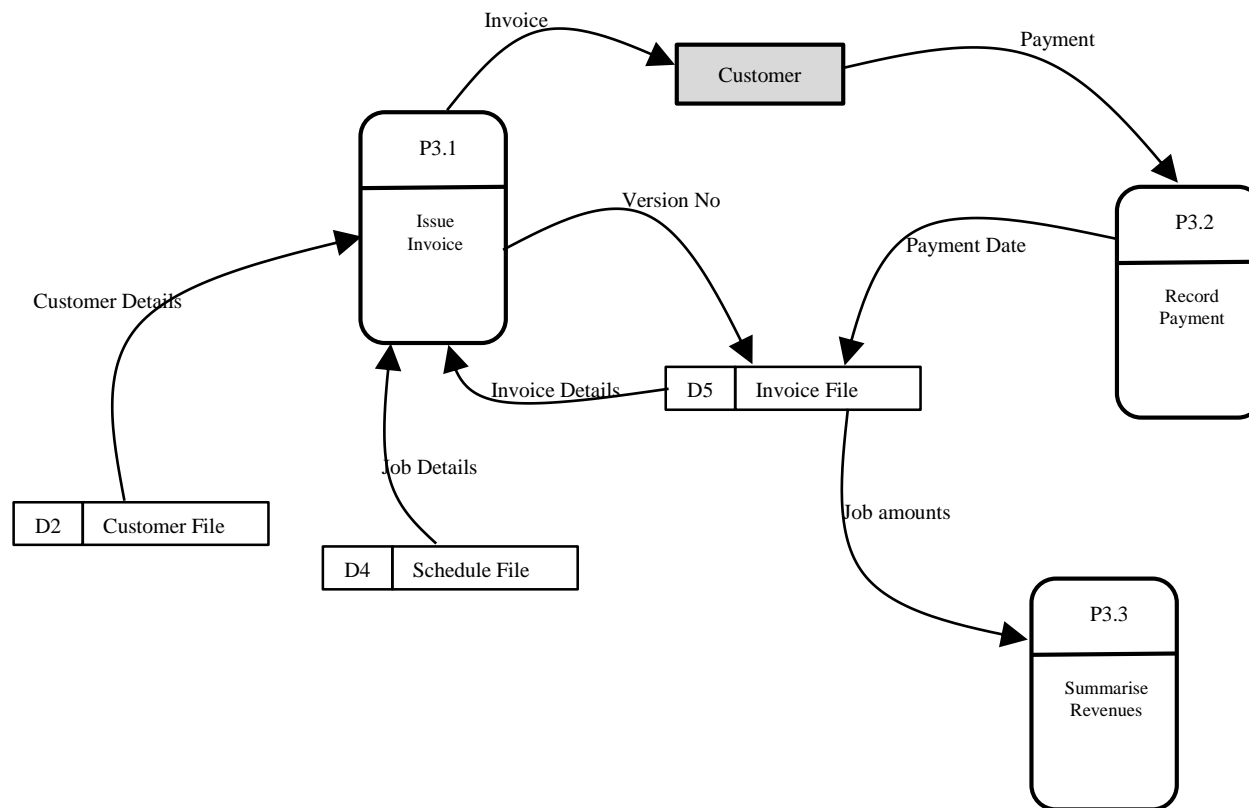
Level-2 DFD Process P1



Level-2 DFD Process P2



Level-2 DFD Process P3



File Structures

Schedule File

Job_Ref Numeric(5)
Start_Date Date
Days numeric(2)
Customer_ID Numeric(3)
Job_Cost Decimal (6,2)

Invoice File

Job_Ref Numeric(5)
Invoice_Date Date
Amount Decimal(6,2)
Date_Paid Date