Data Flow Diagram and Data Dictionary

1. Data Dictionary (for Process)

Process name:

Process Description:

Inward flow(s): it includes names of input data flows

Outward flow(s): it includes names of output data flows

Process specification: it includes details of code/ function written in Structured English

Example:

Customer Authentication in the online shopping environment

This procedure to authenticate customer can be written in Structured English as:

```
Enter Customer_Name
SEEK Customer_Name in Customer_Name_DB file
IF Customer_Name found THEN
   Call procedure USER_PASSWORD_AUTHENTICATE()
ELSE
   PRINT error message
   Call procedure NEW_CUSTOMER_REQUEST()
ENDIF
```

1. Data Dictionary (for Data flow)

Data flow name:

Data flow Description:

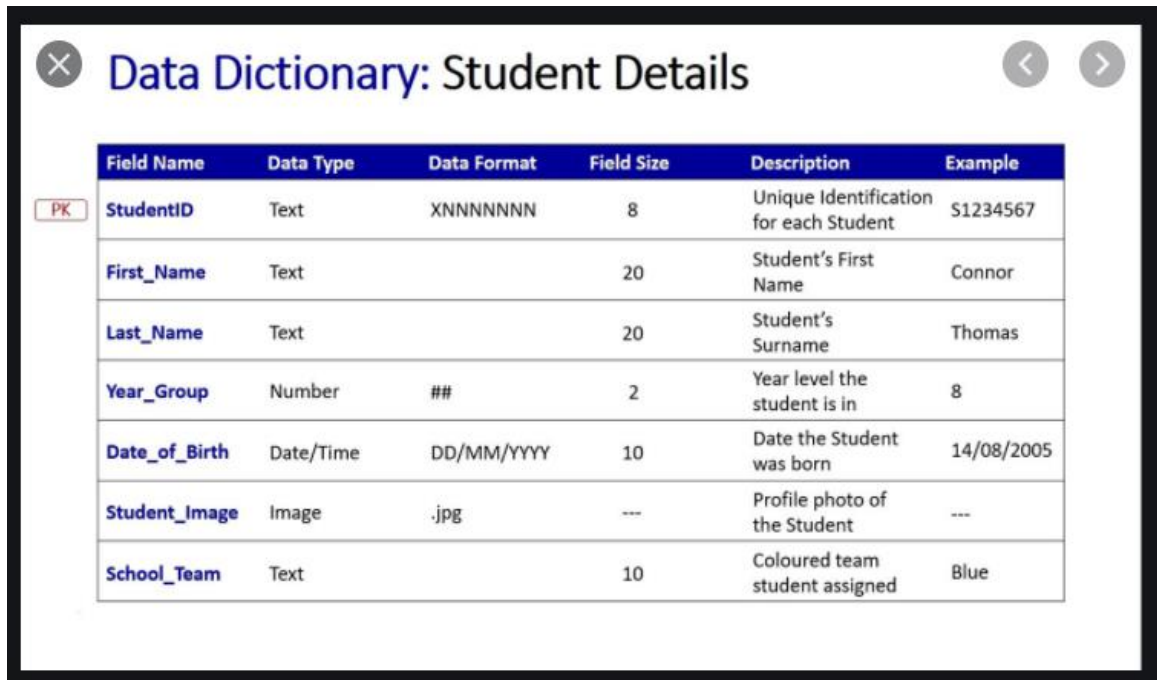**Input Source:** it includes input process/source name

Output Source: it includes output process/source name

2. **Data Dictionary (for Data Store)**

Data store name:

Data store Description: it includes field name, data type, data format

Example:

Data Dictionary: Student Details

	Field Name	Data Type	Data Format	Field Size	Description	Example
PK	StudentID	Text	XNNNNNNN	8	Unique Identification for each Student	S1234567
	First_Name	Text		20	Student's First Name	Connor
	Last_Name	Text		20	Student's Surname	Thomas
	Year_Group	Number	##	2	Year level the student is in	8
	Date_of_Birth	Date/Time	DD/MM/YYYY	10	Date the Student was born	14/08/2005
	Student_Image	Image	.jpg	---	Profile photo of the Student	---
	School_Team	Text		10	Coloured team student assigned	Blue

Input flows: it includes names of input data flows

Output flows: it includes names of output data flows