

# Data Dictionary

## Process Description

PROCESS NAME	1.0) Purchasing Process		
DESCRIPTION	Customer account is created/authenticated and order is received for		
	further processing.		
INBOUND DATA FLOWS	Register/Login	Payment	Receipt
	Customer Personal Profile	Order	Book Supply
OUTBOUND DATA FLOWS	Book Supply	Bill Receipt	Reports
	Customer Personal Profile	Payment	Available Book Request
	Unavailable Book Request	Statements	

PROCESS NAME	2.0) Enquiry		
DESCRIPTION	To get detail enquiry about a product.		
INBOUND DATA FLOWS	Availability Enquiry	Book details	
OUTBOUND DATA FLOWS	Availability Information	Book Details	

PROCESS NAME	3.0) Unavailable Book Order/Acquisition		
DESCRIPTION	Requests for unavailable books from seller.		
INBOUND DATA FLOWS	Request for Unavailable Book	Receipt	
OUTBOUND DATA FLOWS	Request/Order of books	Request/Order of books	

<b>PROCESS NAME</b>	4.0) Availability Check
<b>DESCRIPTION</b>	Checks Database for availability of required books and product(s).
<b>INBOUND DATA FLOWS</b>	Availability Details      Availability Information
<b>OUTBOUND DATA FLOWS</b>	Availability Check request

<b>PROCESS NAME</b>	5.0) All Books Acquisition
<b>DESCRIPTION</b>	Acquiring and checking the products before updating databases for
	further processing.
<b>INBOUND DATA FLOWS</b>	Book Supply
<b>OUTBOUND DATA FLOWS</b>	Products

## Data Flow Entries

<b>DATA FLOW NAME</b>	Order
<b>DESCRIPTION</b>	Order details received from customer.
<b>FROM PROCESSES</b>	
<b>TO PROCESSES</b>	1.0) Purchasing Process
<b>DATA STRUCTURES</b>	Order_

<b>DATA FLOW NAME</b>	Register/Login
<b>DESCRIPTION</b>	Creating customer account or logging in an existing account.
<b>FROM PROCESSES</b>	
<b>TO PROCESSES</b>	1.0)Purchasing Process
<b>DATA STRUCTURES</b>	User Account opening

<b>DATA FLOW NAME</b>	Payment
<b>DESCRIPTION</b>	Funds received from customer in order to complete transaction.
<b>FROM PROCESSES</b>	
<b>TO PROCESSES</b>	1.0) Purchasing Process
<b>DATA STRUCTURES</b>	Payment

<b>DATA FLOW NAME</b>	Order Supply
<b>DESCRIPTION</b>	Access given to the customer of the purchased item(s).
<b>FROM PROCESSES</b>	1.0) Purchasing Process
<b>TO PROCESSES</b>	
<b>DATA STRUCTURES</b>	Order_

<b>DATA FLOW NAME</b>	Bill Receipt
<b>DESCRIPTION</b>	Details of the filled order with the date, time and total amount paid.
<b>FROM PROCESSES</b>	1.0) Purchasing Process
<b>TO PROCESSES</b>	
<b>DATA STRUCTURES</b>	Payment Invoice

<b>DATA FLOW NAME</b>	Availability Enquiry
<b>DESCRIPTION</b>	Customer checks the availability of a desired product.
<b>FROM PROCESSES</b>	
<b>TO PROCESSES</b>	2.0) Enquiry
<b>DATA STRUCTURES</b>	Book Search

<b>DATA FLOW NAME</b>	Availability Information
<b>DESCRIPTION</b>	Details of the product enquired about are given to the customer.
<b>FROM PROCESSES</b>	2.0) Enquiry
<b>TO PROCESSES</b>	
<b>DATA STRUCTURES</b>	Book Search

<b>DATA FLOW NAME</b>	Customer Personal Profile
<b>DESCRIPTION</b>	Customer's personalised profile with all the purchased history and
	available interests marked by customer.
<b>FROM PROCESSES</b>	1.0)Purchasing Process
<b>TO PROCESSES</b>	
<b>DATA STRUCTURES</b>	Customer

<b>DATA FLOW NAME</b>	Payments
<b>DESCRIPTION</b>	Details of transaction made during purchasing process.
<b>FROM PROCESSES</b>	1.0)Purchasing Process
<b>TO PROCESSES</b>	
<b>DATA STRUCTURES</b>	Payment Invoice

<b>DATA FLOW NAME</b>	Receipt
<b>DESCRIPTION</b>	Copy of detailed report of transaction specifically with time stamp
	and total amount paid.
<b>FROM PROCESSES</b>	
<b>TO PROCESSES</b>	1.0) Purchasing Process
<b>DATA STRUCTURES</b>	Payment Invoice

<b>DATA FLOW NAME</b>	Available book Request/Acquisitions
<b>DESCRIPTION</b>	An internal order to request access to the products database.
<b>FROM PROCESSES</b>	1.0)Purchasing Process
<b>TO PROCESSES</b>	
<b>DATA STRUCTURES</b>	Book Search

<b>DATA FLOW NAME</b>	Book Supply
<b>DESCRIPTION</b>	An internal supply of hyperlink concerned with completion of transaction.
<b>FROM PROCESSES</b>	
<b>TO PROCESSES</b>	1.0) Purchasing Process
<b>DATA STRUCTURES</b>	

<b>DATA FLOW NAME</b>	Request for Unavailable Book
<b>DESCRIPTION</b>	Request for books that are currently not available in databases.
<b>FROM PROCESSES</b>	1.0) Purchasing Process
<b>TO PROCESSES</b>	3.0) Unavailable Book Order/Acquisition
<b>DATA STRUCTURES</b>	Book Request

<b>DATA FLOW NAME</b>	Receipt
<b>DESCRIPTION</b>	Acknowledgment of the payment and goods received by admins from the buyer.
<b>FROM PROCESSES</b>	
<b>TO PROCESSES</b>	3.0) Unavailable Book Order / Acquisitions
<b>DATA STRUCTURES</b>	Payment invoice

<b>DATA FLOW NAME</b>	Payment
<b>DESCRIPTION</b>	Transaction made in order to balance accounts with the seller.
<b>FROM PROCESSES</b>	3.0) Unavailable Book Order/ Acquisitions
<b>TO PROCESSES</b>	
<b>DATA STRUCTURES</b>	Payment Invoice

<b>DATA FLOW NAME</b>	Request/Order for the Book
<b>DESCRIPTION</b>	Request for product(s) for the database from the supplier.
<b>FROM PROCESSES</b>	
<b>TO PROCESSES</b>	3.0) Unavailable Book Order/ Acquisitions
<b>DATA STRUCTURES</b>	Book Request

<b>DATA FLOW NAME</b>	Supply
<b>DESCRIPTION</b>	Acquiring the books from the seller.
<b>FROM PROCESSES</b>	
<b>TO PROCESSES</b>	5.0) All Books Acquisition
<b>DATA STRUCTURES</b>	Book Store update
	New Book Upload

<b>DATA FLOW NAME</b>	Availability Check Request
<b>DESCRIPTION</b>	Request for checking the product(s) in the database.
<b>FROM PROCESSES</b>	4.0) Availability Check
<b>TO PROCESSES</b>	
<b>DATA STRUCTURES</b>	Book Search

<b>DATA FLOW NAME</b>	Availability Information
<b>DESCRIPTION</b>	Information and details about availability of product(s).
<b>FROM PROCESSES</b>	
<b>TO PROCESSES</b>	4.0) Availability Check
<b>DATA STRUCTURES</b>	Book Search



<b>DATA FLOW NAME</b>	Availability details
<b>DESCRIPTION</b>	Requesting and Providing Information about the current inventory.
<b>FROM PROCESSES</b>	
<b>TO PROCESSES</b>	4.0) Availability Check
<b>DATA STRUCTURES</b>	Book Search

## Data Store & Elements:

### **Table:** Admin\_Info

**Description:** This table stores information about Admin.

Field Name	Data Type	Description	Data Format	Constraints
admin_id	Integer (6)	Unique Admin Id	NNNNNN	Primary Key
first_name	Varchar (20)	First Name	-----	Not Null
last_name	Varchar (20)	Last Name	-----	Not Null
pass	Varchar (50)	Password	-----	Not Null
email_id	Varchar (50)	Email ID	-----	Not Null

### **Table:** User\_Info

**Description:** This table stores information regarding the user and user login information.

Field Name	Data Type	Description	Data Format	Constraints
user_id	Integer (6)	Unique User Id	NNNNNN	Primary Key
first_name	Varchar (20)	First Name	-----	Not Null
last_name	Varchar (20)	Last Name	-----	Not Null
pass	Varchar (50)	Password	-----	Not Null
cnct_no	Integer (10)	Contact Number	NNNNNNNN	Not Null
email_id	Varchar (50)	Email ID	-----	Not Null
dob	Date/Time	Date of Birth	DD/MM/YYYY	Not Null
con_pass	Varchar (50)	Confirm Password	-----	Not Null

**Table: Author\_info**

**Description:** This table stores information regarding the products(books) and their author.

Field Name	Data Type	Description	Data Format	Constraints
author_id	Integer (4)	Author Id	NNNN	Primary Key
book_id	Integer (5)	Book Id	NNNNN	Foreign Key
author_nm	Varchar (30)	Author Name	NNNNN	Not Null

**Table: Product\_Info**

**Description:** This table stores information regarding the products(books) and their details.

Field Name	Data Type	Description	Data Format	Constraints
book_id	Integer (5)	Book ID	NNNNN	Primary Key
book_name	Varchar (50)	Book Name	-----	Not Null
desc	Text	Description	-----	Not Null
price	Integer (6)	Price	NNNNN	Not Null
image	Image	Product Image	-----	Not null
Quantity	Integer (3)	Quantity of Item	NNN	Not Null
available_check	Boolean	Checks Availability	0/1	Not Null
free_samp	Hyperlink	Free Sample	-----	Not Null
book_drive	Hyperlink	E-Book Link	-----	Not Null

**Table: Genre**

**Description:** This table stores information regarding the products(books) and their genre.

Field Name	Data Type	Description	Data Format	Constraints
genre_id	Integer (2)	Genre Id	NN	Primary Key
book_id	Integer (5)	Book Id	NNNNN	Foreign Key
genre_nm	Varchar (30)	Genre	-----	Not Null

**Table:** wish\_list\_table**Description:** This table stores information about wishlist of each user.

Field Name	Data Type	Description	Data Format	Constraints
user_id	Integer (6)	Unique User Id	NNNNNN	Primary Key
book_id	Integer (5)	Book Id	NNNNN	Foreign Key

**Table:** Shopping\_Cart**Description:** This table stores information about cart.

Field Name	Data Type	Description	Data Format	Constraints
cart_id	Integer (9)	Cart Id	NNNNNNNNNN	Not null
user_id	Integer (6)	Unique User Id	NNNNNN	Foreign Key
book_id	Integer (5)	Book Id	NNNNN	Foreign Key
quant	Integer (3)	Quantity	NNN	Not Null
total_price	Varchar (25)	Total Amount	-----	Not Null

**Table:** Order\_Detail**Description:** This table stores information about Order of each User.

Field Name	Data Type	Description	Data Format	Constraints
order_id	Integer (10)	Order Id	NNNNNNNNNNNN	Primary Key
cart_id	Integer (9)	Cart Id	NNNNNNNNNN	Foreign Key
date_purchase	Date/Time	Date of purchase	DD/MM/YYYY	Not Null
time_purchase	Time	Time of Purchase	-----	Not Null
amount_paid	Integer	Amount paid	NNNNNN	Not Null

**Table:** Feedback\_table**Description:** This table stores information about feedback of each order of user.

Field Name	Data Type	Description	Data Format	Constraints
order_id	Integer (10)	Order Id	NNNNNNNNNNNN	Primary Key
feedback_txt	Text (50)	Feedback	-----	Not Null
rate_purchase	Float Integer (3)	Ratings given by User	(N) NN	Not Null

**Table:** accounts\_table**Description:** This table stores information about wishlist of each user.

Field Name	Data Type	Description	Data Format	Constraints
transaction_id	Var Char	Transaction Id	-----	Primary Key
order_id	Integer (10)	Order Id	NNNNNNNNNN	Foreign Key
acknowledgement	Boolean	Successful/Unsuccessful Transaction	0/1	Not Null

**Table:** request\_list\_table**Description:** This table stores information about requests made by users for unavailable products.

Field Name	Data Type	Description	Data Format	Constraints
book_id	Integer (5)	Book Id	NNNNN	Foreign Key

## Data Structures:

<b>DATA STRUCTURE NAME</b>	User Account Opening
<b>DESCRIPTION</b>	Detail submission to internal system for opening and registering an user.
<b>CONTENTS</b>	First Name
	Last Name
	Contact number
	Email Address
	Date of birth
	Password
	(Confirm Password)

<b>DATA STRUCTURE NAME</b>	Login
<b>DESCRIPTION</b>	Login into Pre-existing Account.
<b>CONTENTS</b>	{Email ID}
	Password
	(Date of birth)

<b>DATA STRUCTURE NAME</b>	Book Request
<b>DESCRIPTION</b>	Request for a product currently not available in the inventory.
<b>CONTENTS</b>	{Book ID}
	User Name
	User ID
	Quantity

<b>DATA STRUCTURE NAME</b>	Book Search
<b>DESCRIPTION</b>	Search for a book.
<b>CONTENTS</b>	Book Name
	(Author Name)
	(Genre)

<b>DATA STRUCTURE NAME</b>	New Book Upload
<b>DESCRIPTION</b>	Uploading a new book or increasing the quantity of pre-existing
	book.
<b>CONTENTS</b>	{Book ID}
	Author Name
	Book Name
	Quantity
	Description
	Price
	Sample Picture
	Genre
	Hyperlink

<b>DATA STRUCTURE NAME</b>	Book Store update
<b>DESCRIPTION</b>	Updating already existing books in database but addition of new
	Books (i.e. pre-existing books can only be updated) not allowed.
<b>CONTENTS</b>	{Book ID}
	Update Number

<b>DATA STRUCTURE NAME</b>	Product Details
<b>DESCRIPTION</b>	Details of a product.
<b>CONTENTS</b>	Book ID
	Author Name
	Book Name
	Description
	Price
	Sample Picture
	Genre

<b>DATA STRUCTURE NAME</b>	Order
<b>DESCRIPTION</b>	Order details for final transaction for customers.
<b>CONTENTS</b>	Order ID
	Order Date
	Customer Detail
	Product Details

<b>DATA STRUCTURE NAME</b>	Payment Invoice
<b>DESCRIPTION</b>	Invoice(details) regarding the transaction between the buyer and seller.
<b>CONTENTS</b>	{Transaction ID}
	Date & Time Stamp
	{Order ID}
	User Name First Name Last Name
	Email ID
	Amount
	Products Book Name Quantity