

# **Data Flow Diagram and Data Dictionary**

**for**

## **Students' Auditorium Management Software**



**Prepared by**

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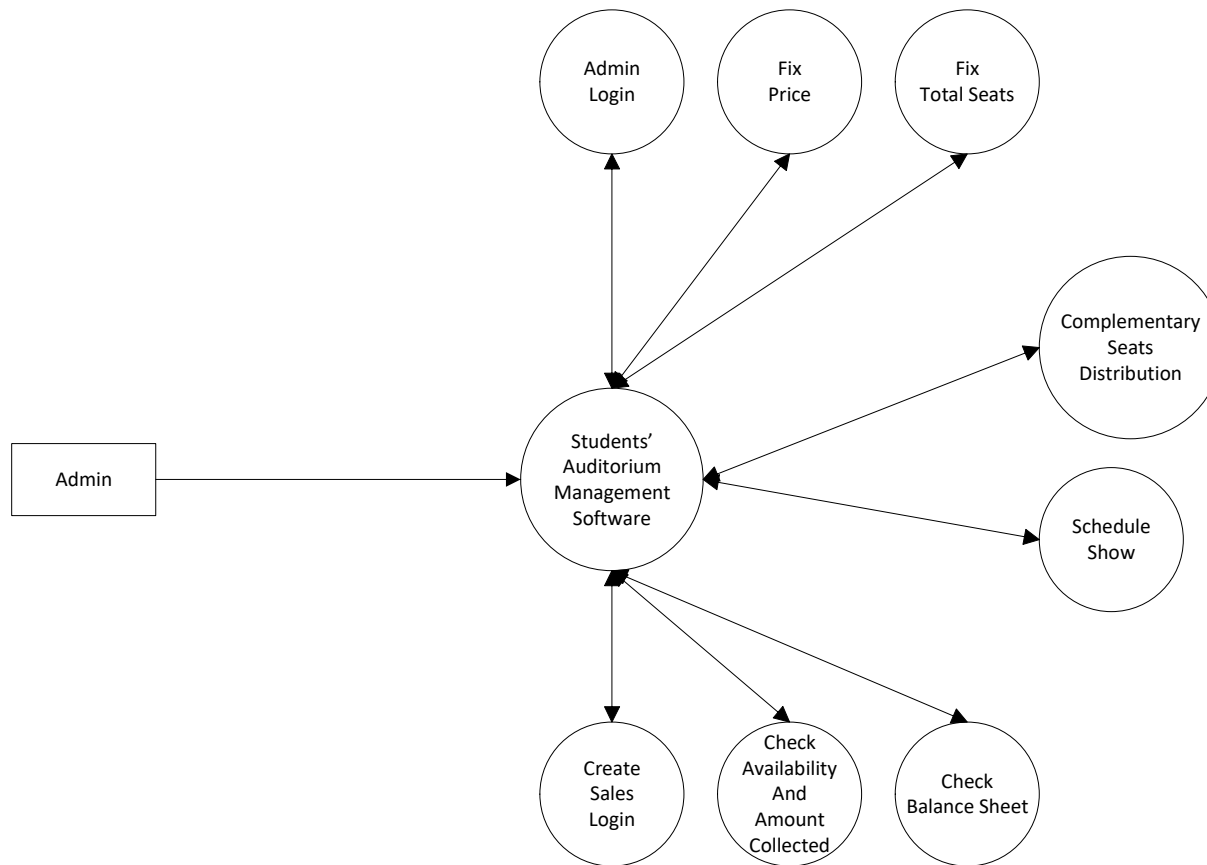
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National Institute of Technology, Rourkela

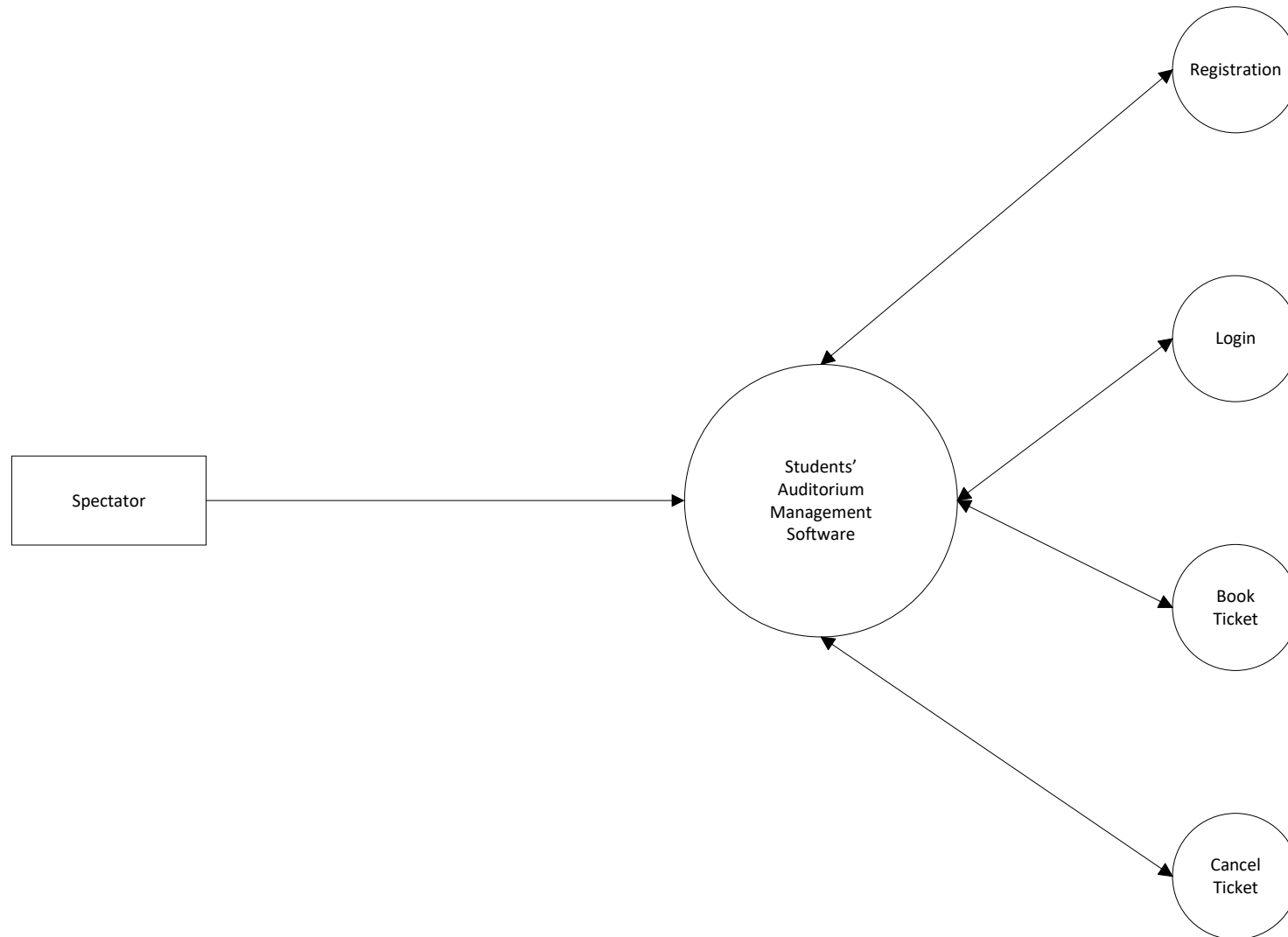
# Data Flow Diagram (Level 0)

## Students' Auditorium Management Software

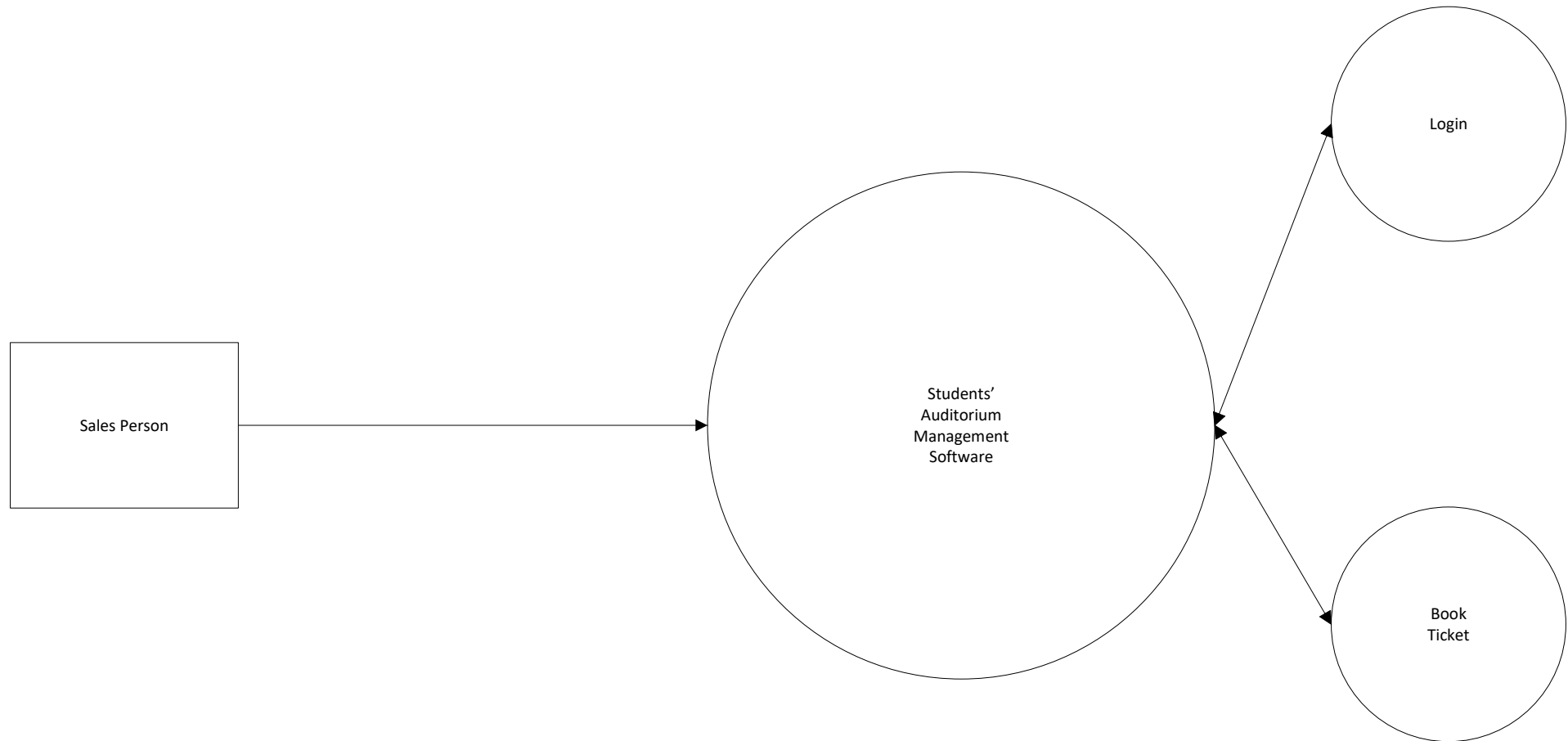
### 1) Admin Module



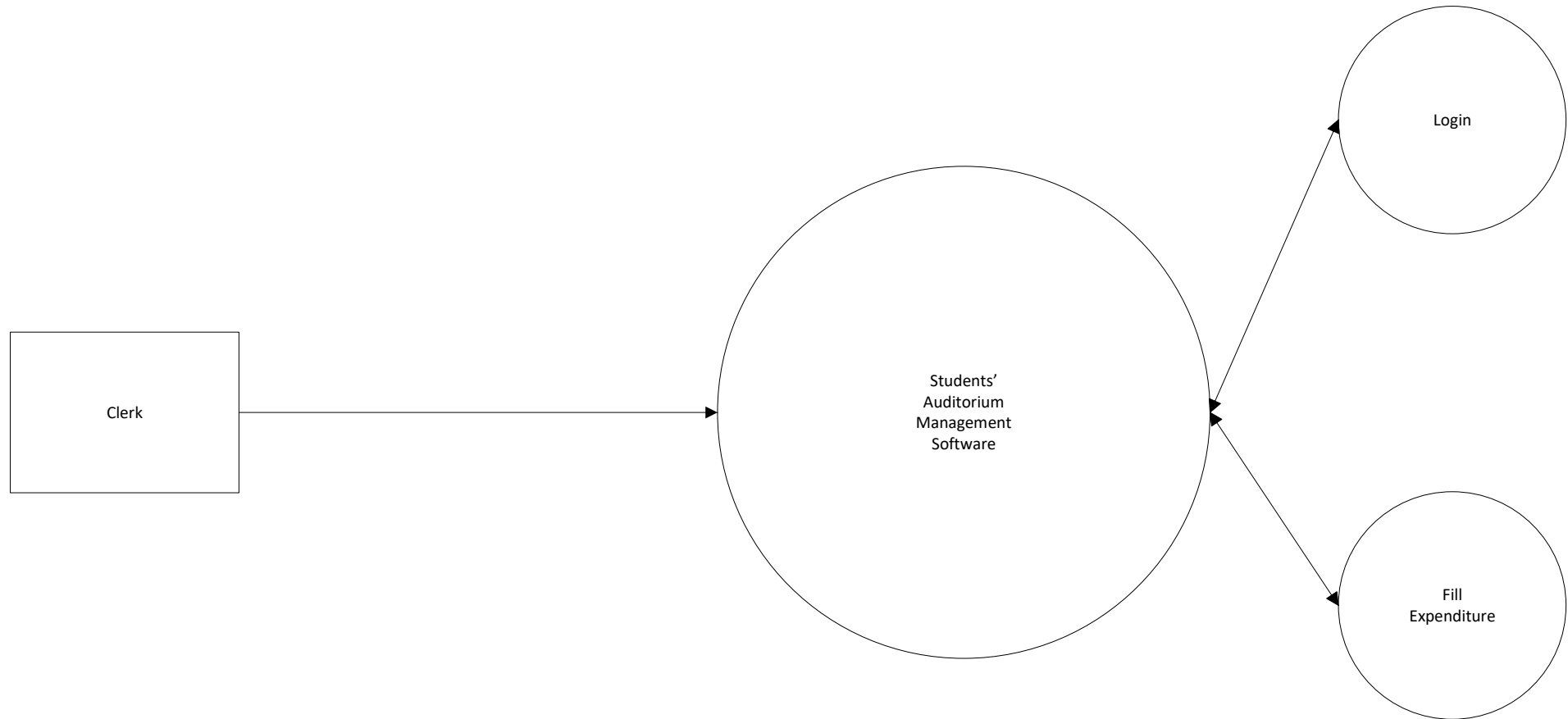
## 2) Spectator Module



### 3) Sales Person Module



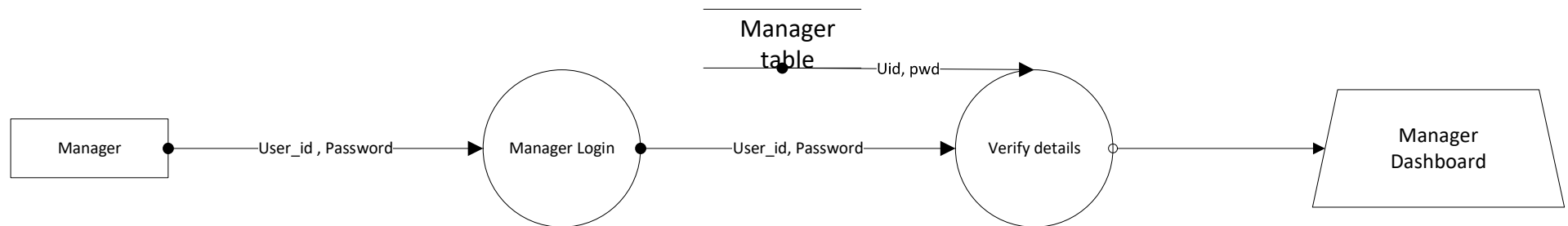
#### 4) Clerk Module



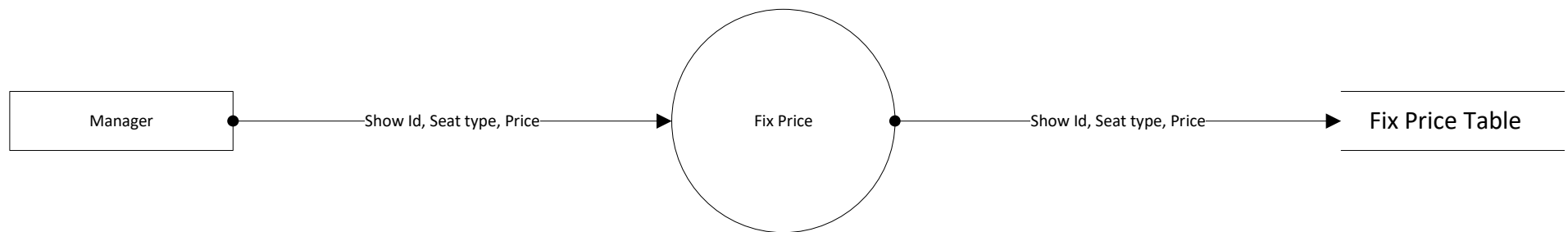
# Data Flow Diagram (Level 1)

## Students' Auditorium Management Software

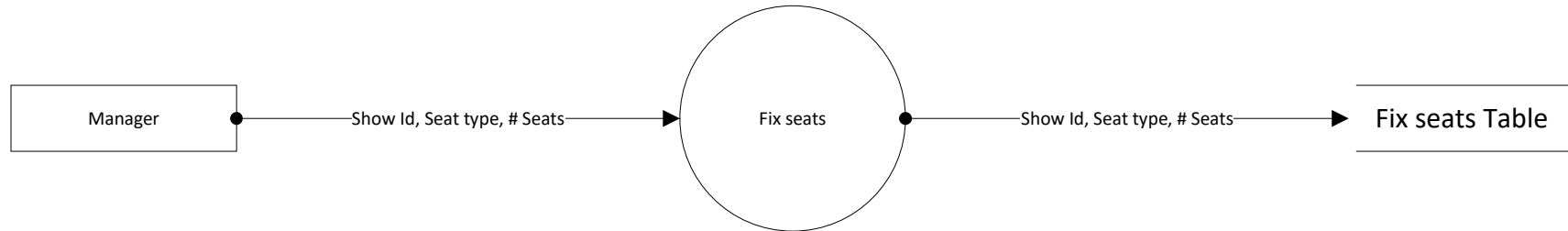
### 1) Manager Login



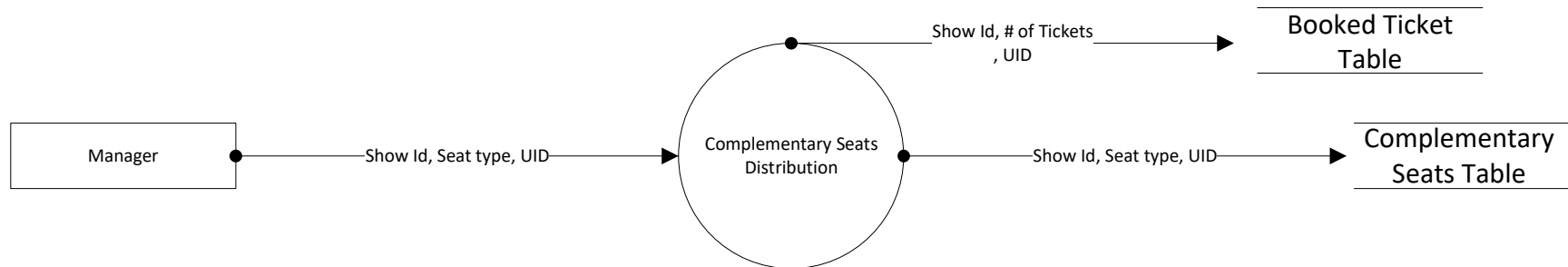
### 2) Fix Price



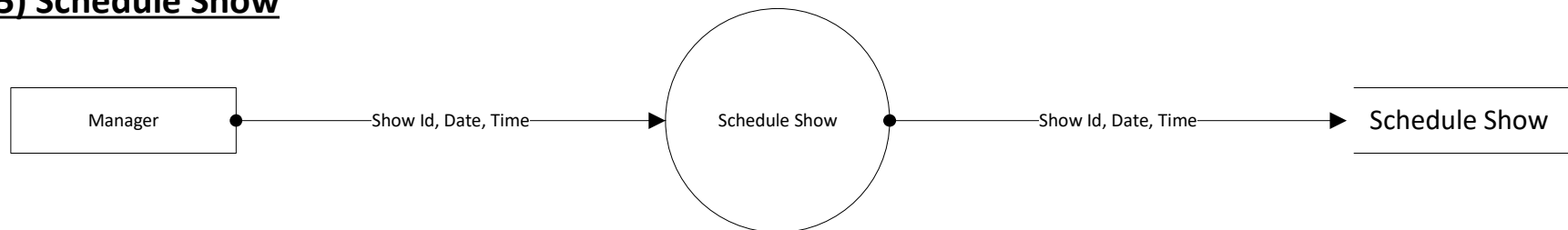
### 3) Fix Total Seats



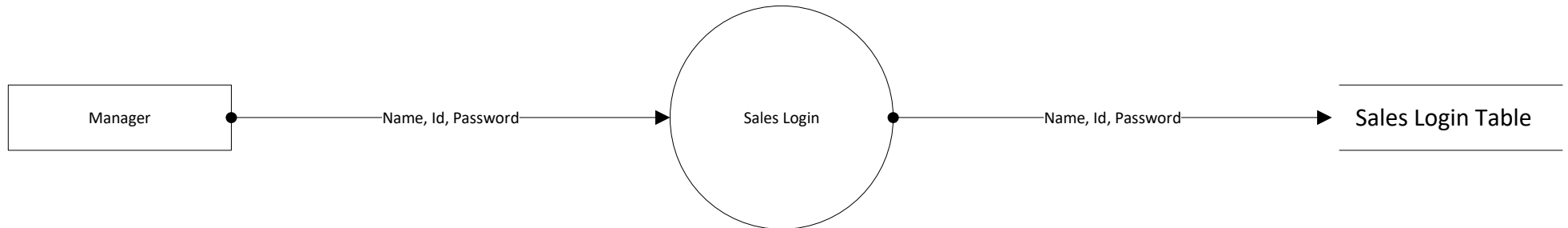
### 4) Complementary Seats Distribution



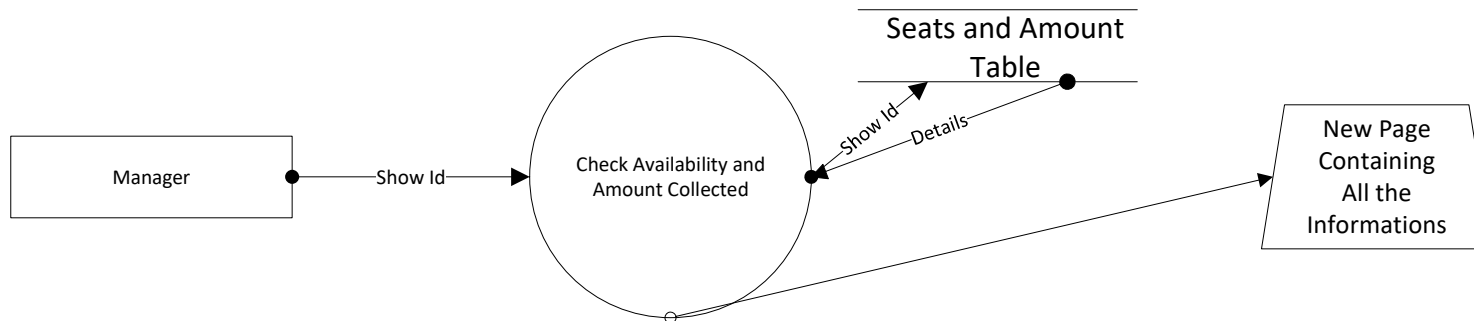
### 5) Schedule Show



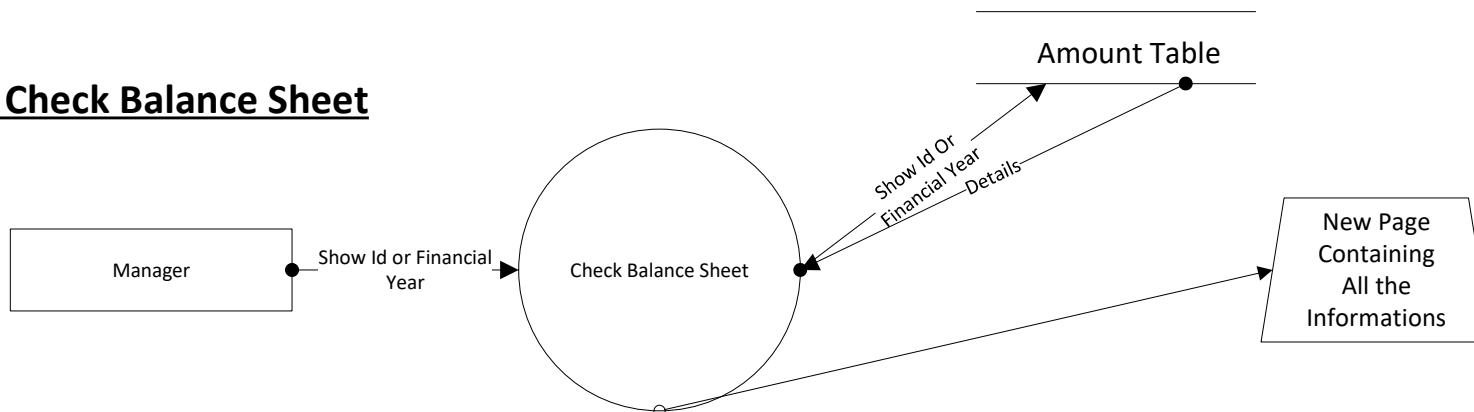
## 6) Create Sales Login



## 7) Check Availability and Amount Collected

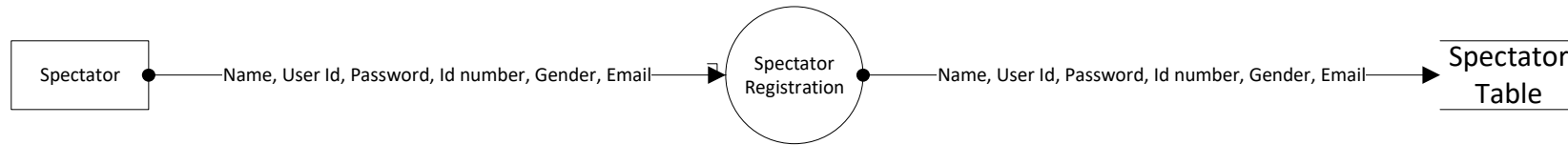


## 8) Check Balance Sheet

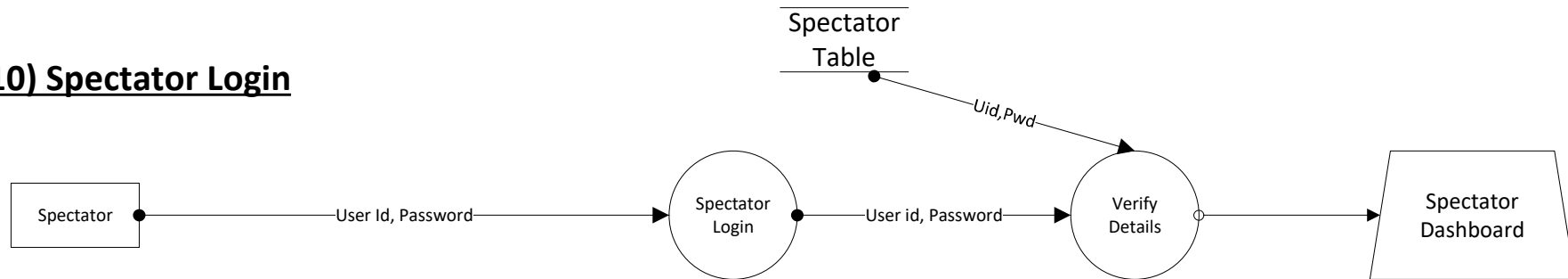




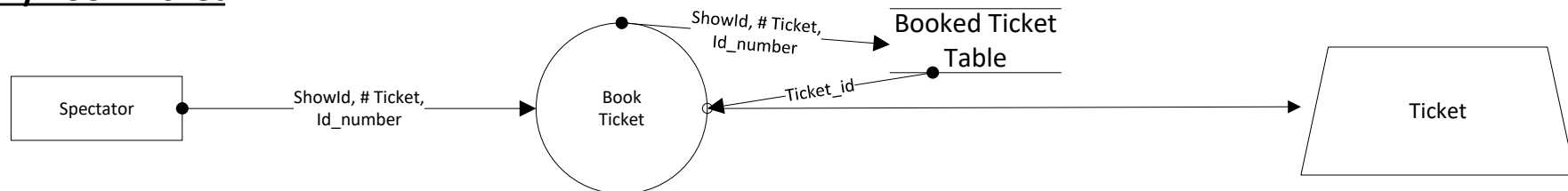
## 9) Spectator Registration



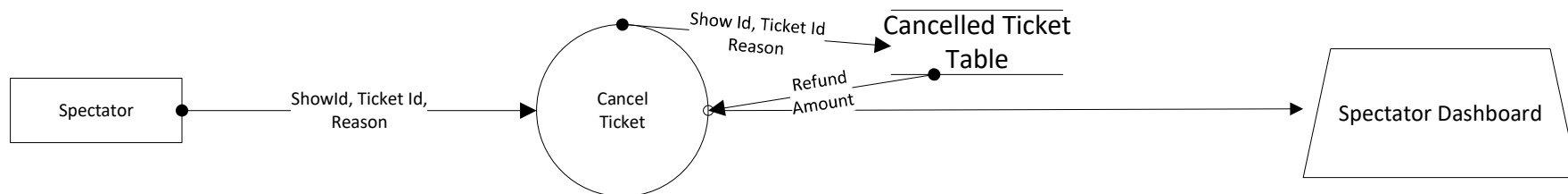
## 10) Spectator Login



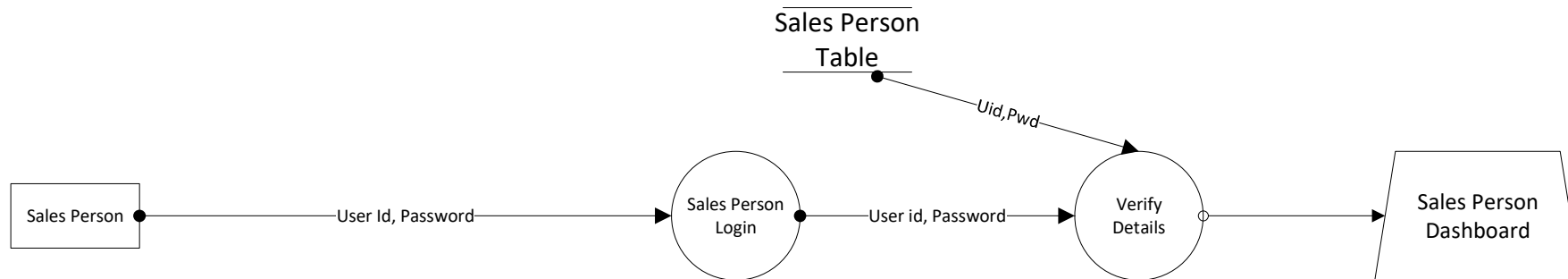
## 11) Book Ticket



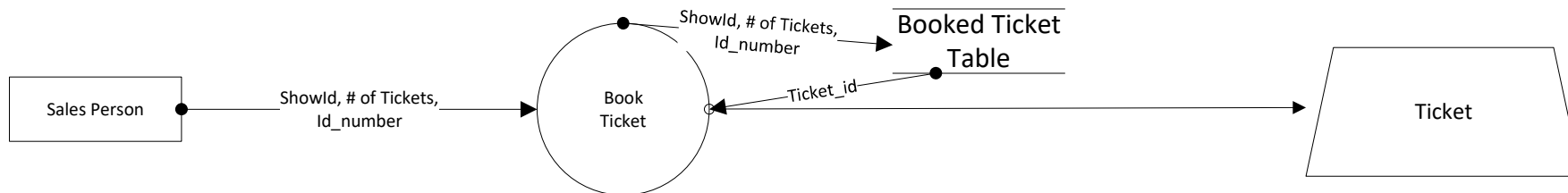
## 12) Cancel Ticket



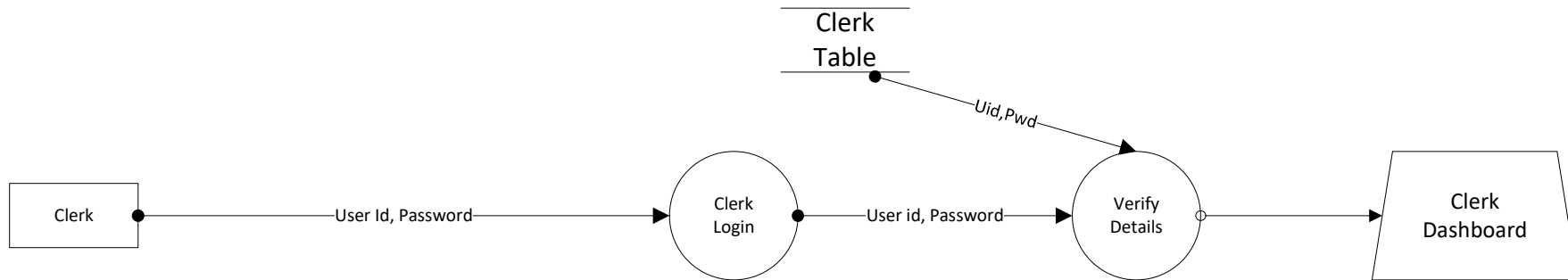
### 13) Sales Person Login



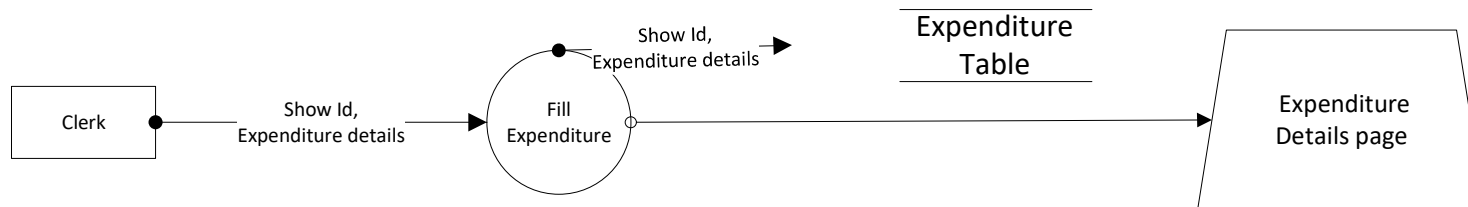
### 14) Book Ticket



## 15) Clerk Login



## 16) Fill Expenditure:



# Data Dictionary

## Students' Auditorium Management Software

### 1) Manager Login:-

• User id	:	String (30)	*Input User Id*
• Password	:	String (30)	*Input Valid Password*
• Result	:	[Output, Error]	
• Output	:	[Manager Dashboard]	
• Error	:	String	*Error Message*

### 2) Fix Price:-

• Show Id	:	Integer (10)	*Select Show Id*
• Type of Seat	:	String (30)	*Select type of seat*
• Price	:	Integer (30)	*Input seat price*
• Result	:	[Output, Error]	
• Output	:	String + [Manager Dashboard]	*Confirmation Message*
• Error	:	String	*Error Message*

### 3) Fix Total Seats:-

• Show Id	:	Integer (10)	*Select Show Id*
• Type of Seat	:	String (30)	*Select type of seat*
• Total available Seat	:	Integer (3)	*Input total seats*
• Result	:	[Output, Error]	
• Output	:	String + [Manager Dashboard]	*Confirmation Message*
• Error	:	String	*Error Message*

### 4) Complementary Seats Distribution:-

• Show Id	:	Integer (10)	*Select Show Id*
• Type of Seat	:	String (30)	*Select type of Seat*
• Member Id	:	String (20)	*Input Member Id*
• Result	:	[Output, Error]	
• Output	:	Ticket Id + [Popup Box]	*Ticket in PDF format*
• Error	:	String	*Error Message*

#### 5) Schedule Show:-

• Title of Show	:	String (30)	*Input Show Name*
• Date	:	date (10)	*Select Date*
• Time	:	time (8)	*Select Time*
• Show Id	:	Integer (10)	*Select Show Id*
• Total Seats for Sale	:	Integer (3)	*Input total available seats*
• Result	:	[Output, Error]	
• Output	:	String + [Manager Dashboard]	*Confirmation Message*
• Error	:	String	*Error Message*

#### 6) Create Sales Login:-

• Name	:	String (30)	*Input Name of the Sales Person*
• User Id	:	String (30)	*Input Unique User Id*
• Password	:	String (30)	*Input Temporary Password*
• Id number	:	Integer (30)	*Input valid Id number*
• Gender	:	String (10)	*Select Gender*
• Result	:	[Output, Error]	
• Output	:	String + [Manager Dashboard]	*Confirmation Message*
• Error	:	String	*Error Message*

#### 7) Check Availability and Amount Collected:-

• Show Id	:	Integer (10)	*Select Show Id*
• Result	:	[Output]	
• Output	:	Available Seats + Amount Collected	

#### 8) Check Balance Sheet:-

• [Show Id, Year]	:	Integer (10)	*Enter Show Id or Financial Year*
• Result	:	[Output, Error]	
• Output	:	[Balance Sheet]	
• Error	:	String	*Error Message*

### 9) Spectator Registration:-

• Name	:	String (30)	*Input Name of the Sales Person*
• User Id	:	String (30)	*Input Unique User Id*
• Password	:	String (30)	*Input Password*
• Id number	:	Integer (30)	*Input valid Id number*
• Gender	:	String (10)	*Select Gender*
• Email	:	String (30)	*Input Email Id*
• Result	:	[Output, Error]	
• Output	:	String	*Confirmation Message*
• Error	:	String	*Error Message*

### 10) Spectator Login:-

• User id	:	String (30)	*Input User Id*
• Password	:	String (30)	*Input Valid Password*
• Result	:	[Output, Error]	
• Output	:	[Spectator Dashboard]	
• Error	:	String	*Error Message*

### 11) Book Ticket:-

• Show Id	:	Integer (10)	*Select Show Id*
• Number of Tickets	:	Integer (1)	*Input number of tickets*
• Id Number	:	Integer (30)	*Input valid id number*
• Result	:	[Output, Error]	
• Output	:	Ticket Id + Popup Box	*Ticket in PDF format*
• Error	:	String	*Error Message*

### 12) Cancel Ticket:-

• Show Id	:	Integer (10)	*Input Show Id*
• Ticket Id	:	Integer(10)	*Input Ticket Id*
• Reason	:	String (100)	*Input Reason*
• Result	:	[Output, Error]	
• Output	:	Confirmation + Spectator Dashboard	*Refund amount*
• Error	:	String	*Error Message*

### 13) Sales Person Login:-

• User id	:	String (30)	*Input User Id*
• Password	:	String (30)	*Input Valid Password*
• Result	:	[Output, Error]	
• Output	:	[Sales Person Dashboard]	
• Error	:	String	*Error Message*

### 14) Book Ticket:-

• Show Id	:	Integer (10)	*Select Show Id*
• Number of Tickets	:	Integer (1)	*Input number of tickets*
• Id Number	:	Integer (30)	*Input valid id number*
• Result	:	[Output, Error]	
• Output	:	Ticket Id + Popup Box	*Ticket in PDF format*
• Error	:	String	*Error Message*

### 15) Clerk Login:-

• User id	:	String (30)	*Input User Id*
• Password	:	String (30)	*Input Valid Password*
• Result	:	[Output, Error]	
• Output	:	[Clerk Dashboard]	
• Error	:	String	*Error Message*

### 16) Fill Expenditure:-

• Show Id	:	Integer (10)	*Select Show Id*
• Expenditure details	:	Table [String, Integer, Date, Time]	*Input details*
• Result	:	[Output, Error]	
• Output	:	String	*Confirmation Message*
• Error	:	String	*Error Message*