

# automated dvd rental

# **Redbox Order Processing System**

# Final Deliverable

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## **Table of Contents**

Introduction and Background of Study	3
Redbox SF Locations	3
How does it work?	4
Pros of RedBox	4
Cons of RedBox	4
Statement of Scope for the New System	5
Problem Description	5
Anticipated business benefits	6
System capabilities	6
Relationship between capabilities and benefits	7
Redbox Context Diagram	9
Event list	10
Redbox - Zero Level Diagram	12
Diagram 1 Process Reservation Order	13
Diagram 1.1 Diagram Process	14
Diagram 1.3 Finalize Reservation	15
Diagram 2 Manage Inventory	16
Process 2.2 Reorder Title	17
Diagram 4 Process Return Movie	
Diagram 4.4 Bill Customer	19
Diagram Manager Report	20
Diagram 4.3 Generate Movie Recommendation	21
Entity Relationship Diagram	22
Structured Charts	23-27
Use Case Diagrams	28-32
Class Diagram	33
Process Specification	34
Data Dictionary	35
Module Specification	36
Cost Benefit Analysis	37-38
APPENDIX A - Interview Questions and Answers	44-45
MANAGER	39
EMPLOYEE	40
APPENDIX B - Progress Report Presentation Slides	

### RedBox Order Processing System

#### 1. Introduction and Background

Redbox was founded by Redbox\_Automated Retail LLC is a company that provides DVD, Bluray Discs and Video game retail through automated retail kiosks. Its kiosks are easily identifiable featuring its signature red color and arched top surface. Redbox's attracts consumers by offering rentals at a low price, while conveniently placing their kiosks in numerous shopping locations.

Redbox was originally funded by McDonalds. In 2002 Redbox initially had sold grocery items and DVD's from their first four kiosks. While Redbox withdrew the grocery kiosks within a year, the DVD-rental kiosks it had also installed in the area succeeded, and the company changed its focus to that market.

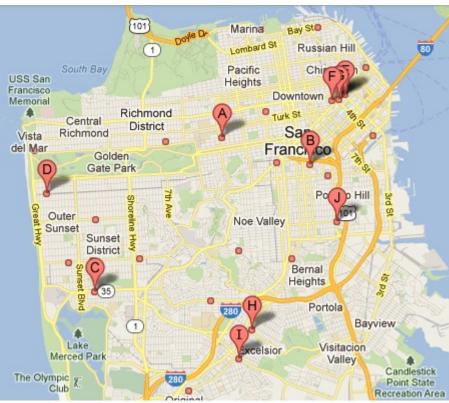
In 2005 Coinstar bought 47% of the company for 32 million ultimately obtaining the remaining share of the company from McDonald's in February of 2009. Redbox had 34.5% market share of discs rented as 2011.

The company passed Blockbuster in 2007 in number of U.S. locations, passed 100 million rentals in February 2008, and passed 1 billion rentals in September 2010. Competitors include Netflix and Blockbuster. As of Q2 2011, kiosks currently have 36 percent of the disc rental market, with 38 percent to rent-by-mail services and 25 percent to traditional stores, according to the NPD Group. As of Q2 2011, 68 percent of the U.S. population lives within a five-minute drive of a Redbox kiosk

Redbox began internally testing its own video streaming service, dubbed Redbox Instant, in July 2012. The service is a joint effort between Redbox and Verizon.

The founder of Redbox, Gregg Kaplan, exits Coinstar as president & COO of Redbox. Anne Saunders is the new president of Redbox.

#### **RedBox Locations in San Francisco**



#### How does RedBox Work?

You don't have to set up an account but you do have to have a credit card. You can go to the kiosk and choose the movie you want, swipe your credit card and it will dispense your movie. Return it by 9:00 pm the next night and only pay \$1.00.

The benefit to going online and reserving your movie is you know exactly what that particular redbox has available before you go down to the store. The new releases can be difficult to get so it can be disappointing to go all the way down there only to find out the movie you really wanted is not available.

#### **Used Movies to Buy**

Redbox sells used movies from their kiosks ranging anywhere from 5-10 dollars. This makes up about 3% of their revenue.

#### Pros of Redbox

- Low Cost \$1 rental
- Promotions
- Conveniently located
- Multiple kiosks at one location
- Easy return process
- New movie releases
- Online access

#### Cons of RedBox

- Keep for one day
- Late fees accrue for late returns up to 25 days then you own the movie
- No actual cashiers to help with check out
- No customer service on site
- Scratches on disc
- No digital service
- Long Lines

### 2. Statement of Scope for the New System

### **Problem Description**

- Customers are complaining that their rentals are badly scratched to the point where it is unreadable.
- Returns not accurately recorded by the system.
- Stolen Movies
- Product can be out of stock which is a direct result of the order processing system being inefficient
- Long lines

#### **Anticipated business benefits (short-term)**

- Reduce out-of-stock inventory
- Improve customer relationship and satisfaction
- Increase internet and mobile reservations to improve customer satisfaction
- Drastically reduce distribution and inventory management cost
- Provide instant customer gratification through consistency of in stock new releases
- Reduce excessive inventory

### **Anticipated business benefits(long-term)**

- Increase profit and revenue
- Expand language availability for kiosk instructions
- Increase membership
- Offer an option for subscription
- Reduce Cost, labor, Liabilities
- Expanding kiosk locations
- Increase efficiency of tracking kiosk performance

### **System Capabilities**

- Improve kiosk performance and design
- Be able to remind customers to return their rentals thru email or text after 10 days
- Fast and easy order process
- Be able to easily expand its products and services on a dynamically changing environment.
- Provide instant sales reports and information for managers and corporate offices to make future sound decisions
- Process credit card payments online in just a few seconds

# Relationship Between Capabilities, Anticipated Benefits and System Functions

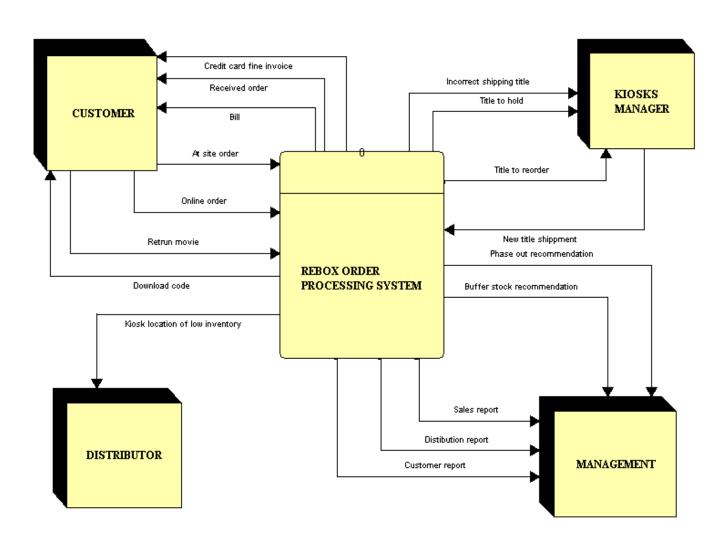
Capabilities	Anticipated Benefits	ystem Functions		
Fast and easy order process  Be able to easily expand its products and services in a	Reduce out-of-stock inventory (waiting time for high demand titles)	Process Order		
dynamically changing environment.	Improve customer relationship and satisfaction			
	Increase internet and mobile reservations to improve			
	customer satisfaction			
	Drastically reduce distribution and inventory management cost			
	Provide instant customer			
	gratification through			
	consistency of in stock new releases			
Fast and easy order process	Increase profit and revenue	Process Payment		
Process credit card payments online in just a few seconds	Improve customer relationship and satisfaction			
Be able to easily expand its	Increase membership	Inventory Management		
products and services on a dynamically changing environment corporate offices to	Reduce Cost, labor, Liabilities			
make future sound decisions	Expanding kiosk locations			
Be able to easily expand its products and services on a	Reduce Cost, labor, Liabilities	Manage individual Kiosk Inventory		
dynamically changing environment corporate offices to	Expanding kiosk locations			
make future sound decisions	Increase efficiency of tracking			
	kiosk performance			
Provide instant sales reports and	Reduce excessive inventory	Manage Store Report		
information for managers and corporate	Reduce out-of-stock inventory (waiting time for high demand titles)			
	Increase profit and revenue			

# Diagrams:

### RedBox Order Processing Context Diagram

#### REDBOX ORDER PROCESSING CONTEXT DIAGRAM

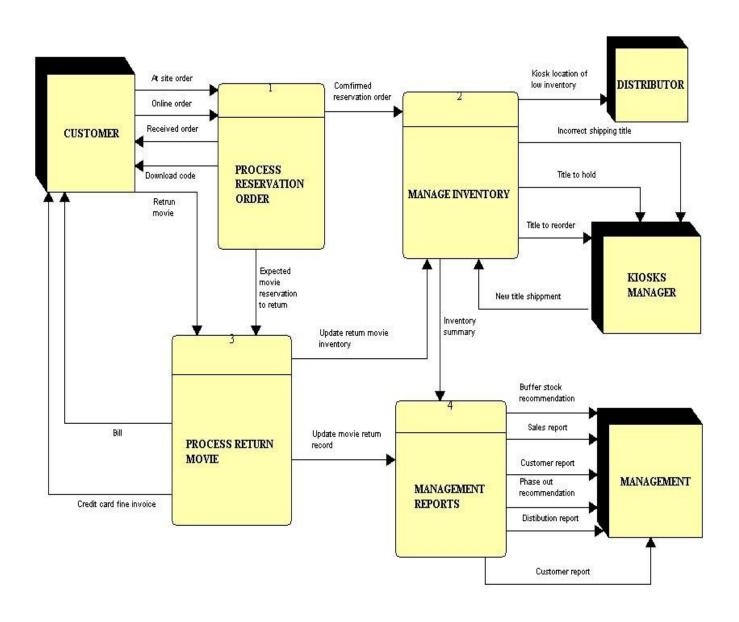
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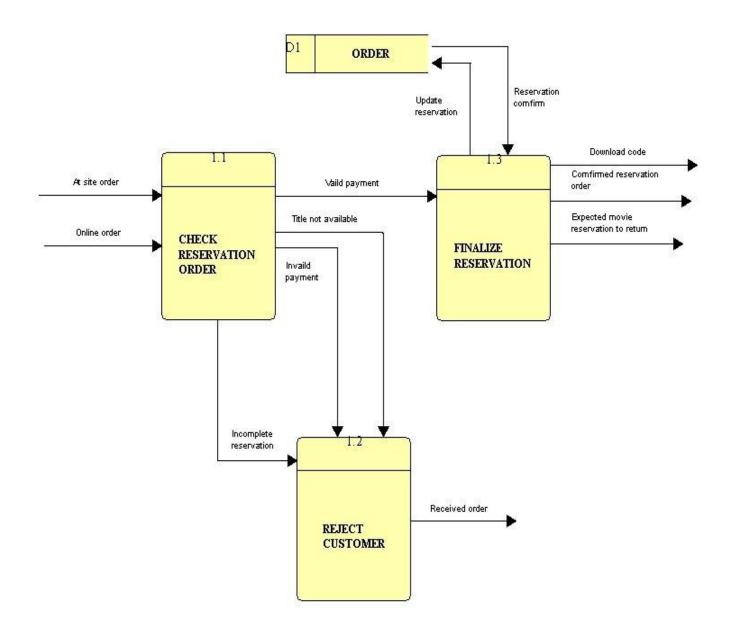
# **Event List**

ŧ		Event	Process	
	1.	Customer order is processed	1	
	2.	Customer reservation order is verified	1.1	
	3.	Customer's order rejected	1.2	
	4.	Customer's order finalized	1.3	
	5.	Customer's order check for reservation completeness	1.1.1	
	6.	Customer's order availability is checked	1.1.2	
	7.	Customer's order is checked for valid coupon	1.1.3	
	8.	Customer receives discount	1.1.4	
	9.	Customer payment is checked	1.1.5	
	10	Customer delivery preference is checked	1.3.1	
	11.	Customer download is approved	1.3.2	
	12	. Customer receives pickup window	1.3.3	
	13	. Management has inventory maintained	2	
	14	. Inventory title buffer stock checked	2.1	
	15	. The system places order of unavailable titles	2.2	
	16	. Kiosk inventory is checked	2.3	
	17	. Distributor is notified	2.4	
	18	. Inventory Check Confirmed	2.5	
	19	. Kiosk manager receives reorder information to place reorders	2.2.1	
	20	. The system checks shipment information	2.2.2	
	21	. The system confirms shipment	2.2.3	
	22	. The system notifies vendor	2.2.4	
	23	. Customer returns are processed	3	
	24	. Customer is billed	3.3	
	25	.Customer's fine is determined	3.3.1	
	26	. Customer's deposit on hold is checked	3.3.2	
	27	.Customer's fine amount is finalized	3.3.3	
	28	. Customer's deposit is deducted	3.3.4	
	29	. Customer's credit card is validated	3.3.5	
	30	. Collection agent is notified	3.3.6	
	31	. Customer is credit card is charged	3.3.7	
	32	. Management has management reports maintained	4	
	33	. The system generates movie recommendation	4.3	
		. Inventory's movie rental checked	4.3.1	
	35	. Inventory is issued movie warning	4.3.2	
	36	. Inventory is checked for stock out	4.3.3	
	37	. Inventory generates buffer stock report		4.3.4

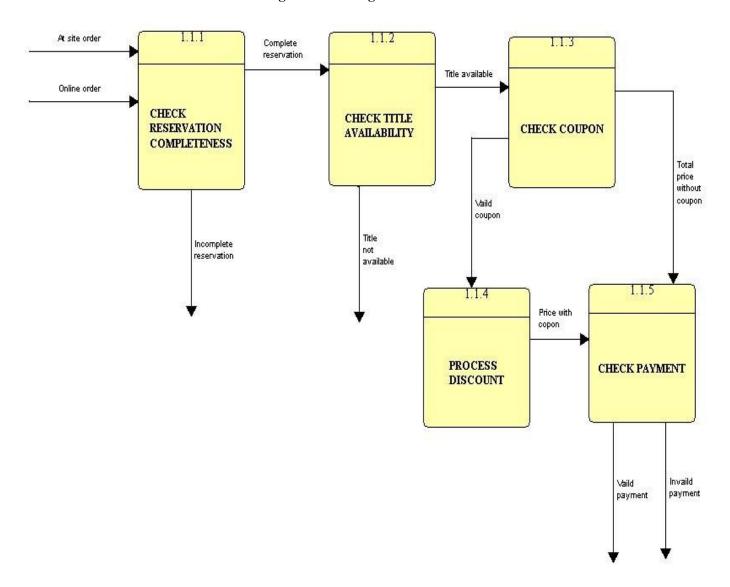
## RedBox Order Processing Zero Level Diagram



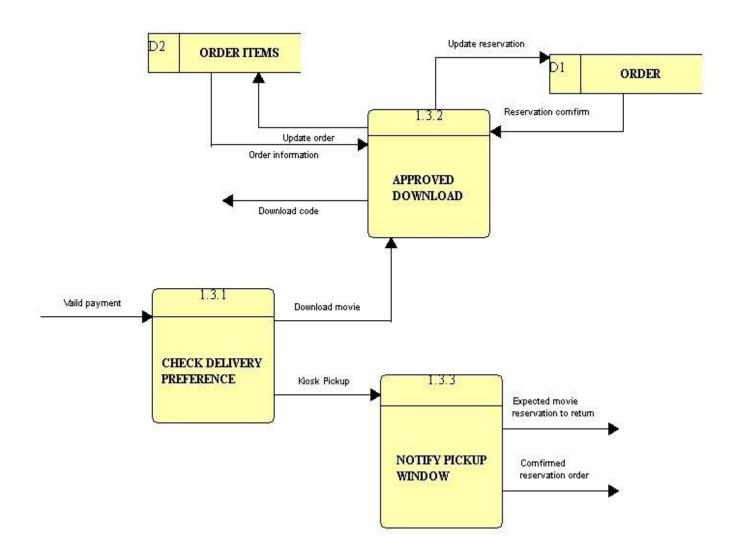
# RedBox Order Processing Diagram 1 - Process Reservation Order



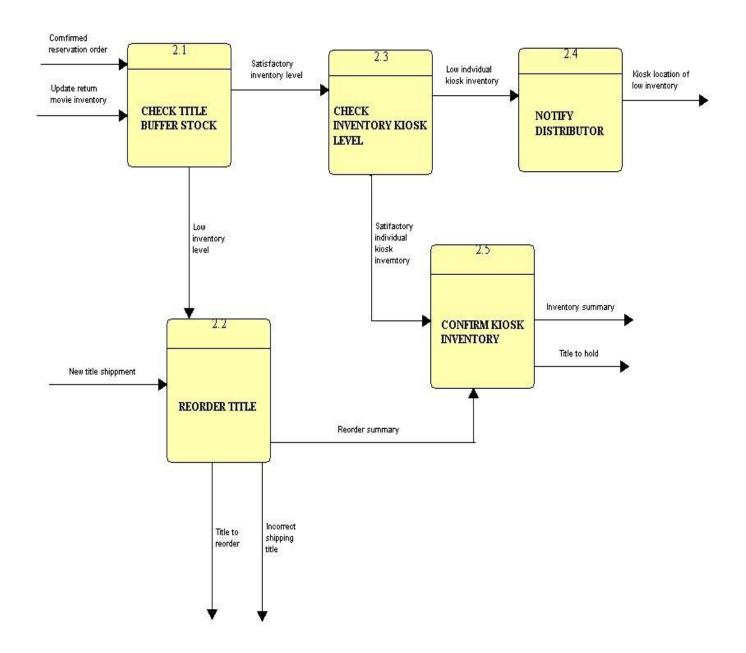
## RedBox Order Processing Diagram 1.1 - Diagram Process



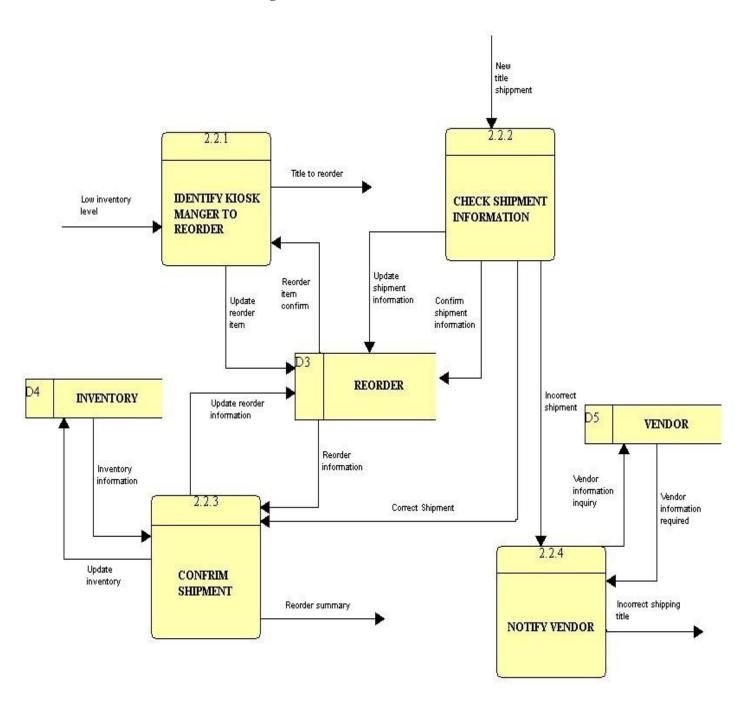
## RedBox Order Processing Diagram 1.3 - Finalize Reservation



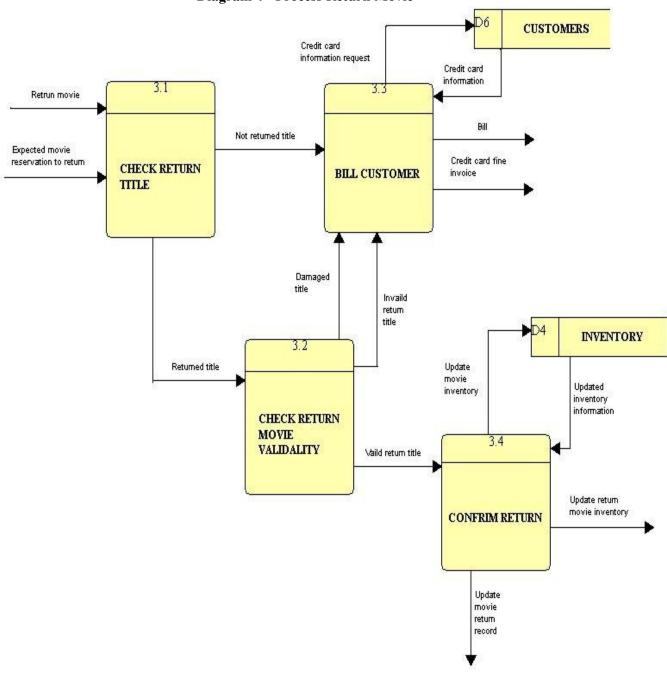
# RedBox Order Processing Diagram 2 - Manage Inventory



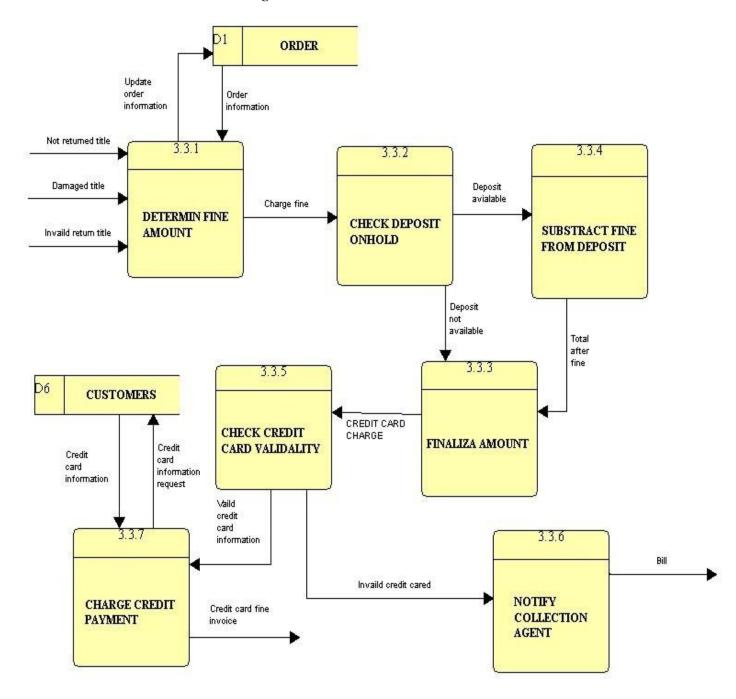
Redbox Order Processing Diagram 2.2 - Reorder Title



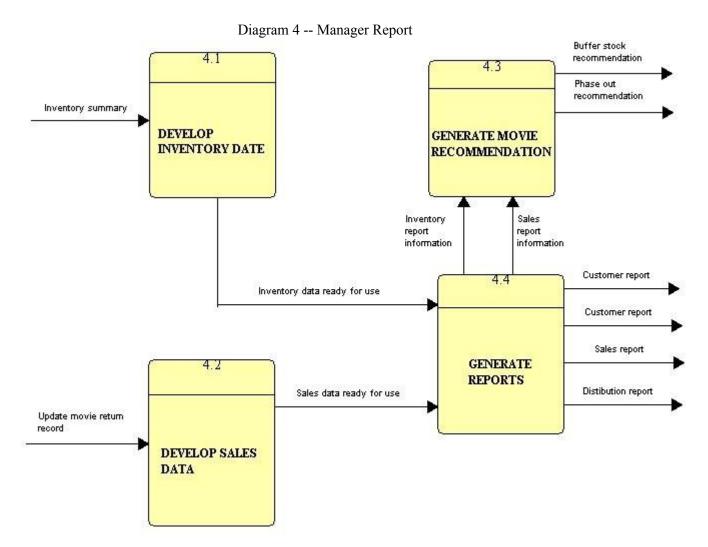
### RedBox Order Processing Diagram 4 - Process Return Movie



## RedBox Order Processing Diagram 4.4 - Bill Customer

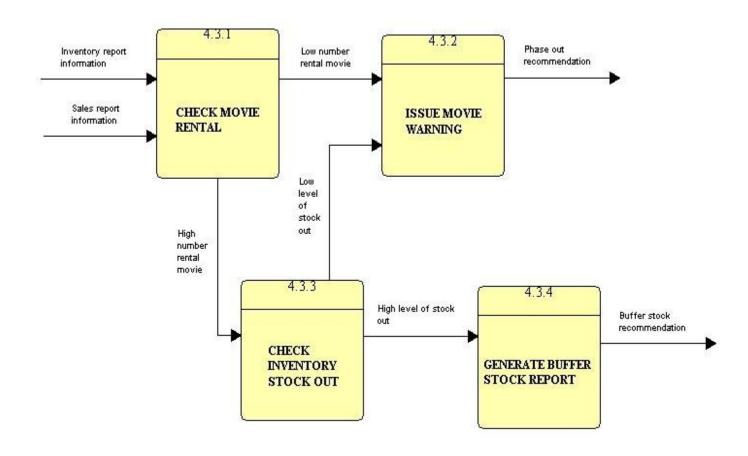


#### **RedBox Order Processing**

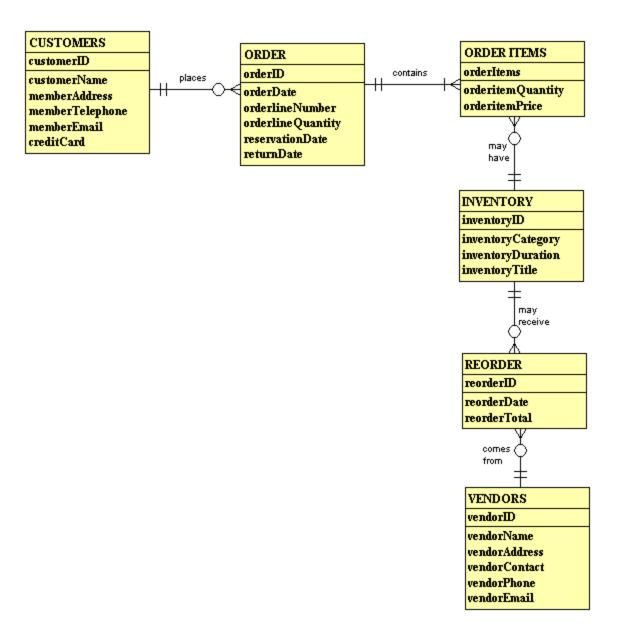


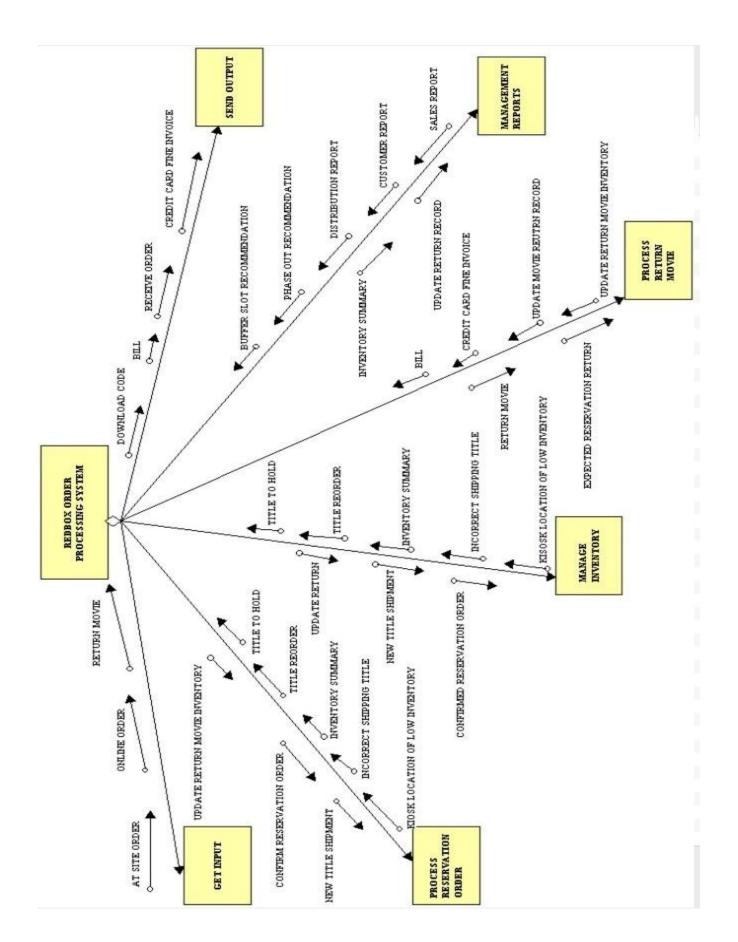
### **RedBox Order Processing**

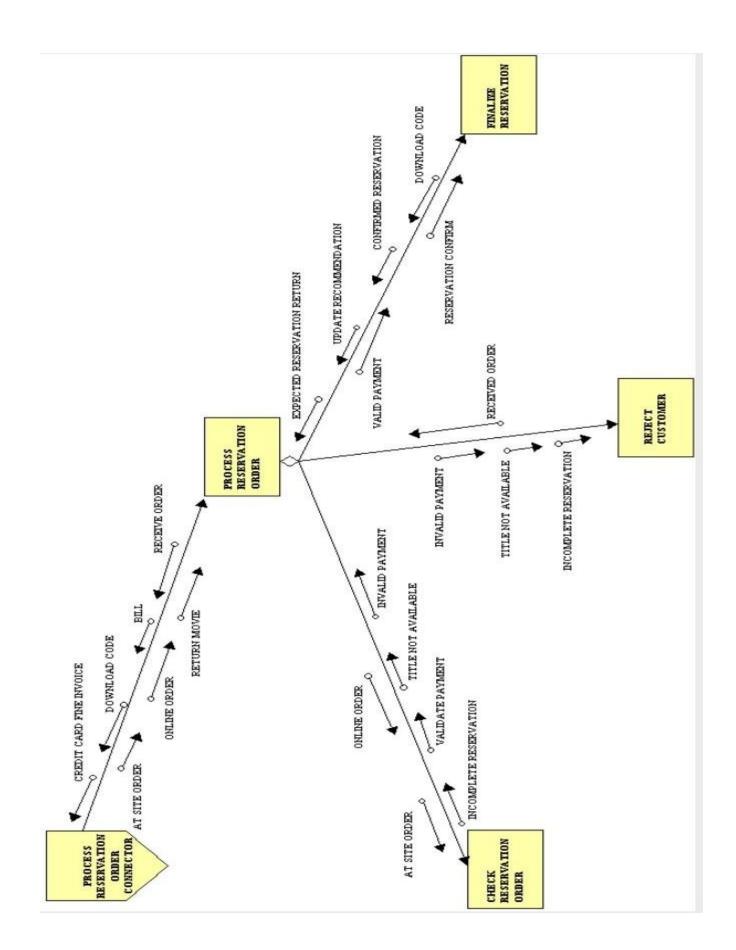
Diagram 4.3 -- Generate Movie Recommendation

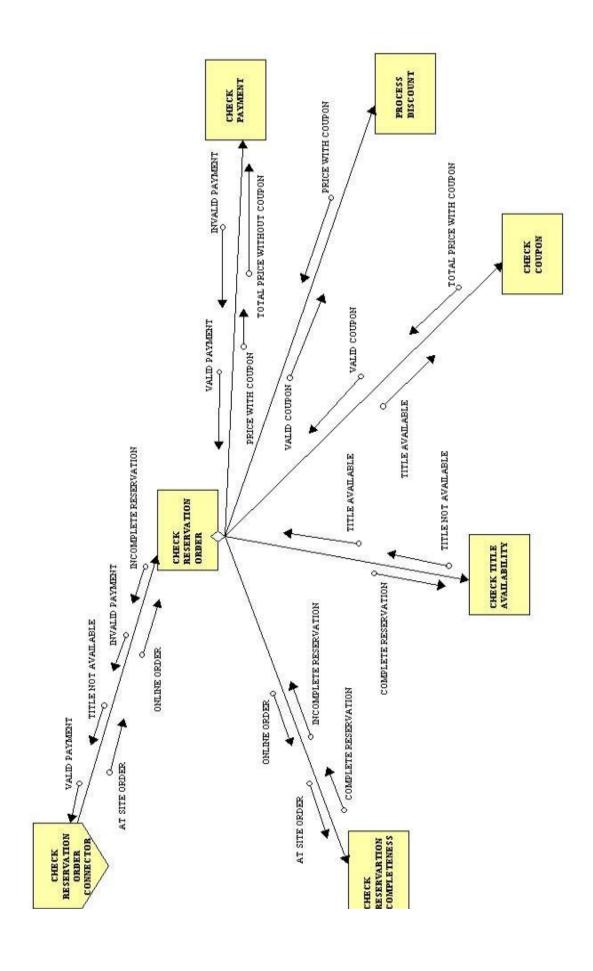


## Redbox Entity Relation Diagram

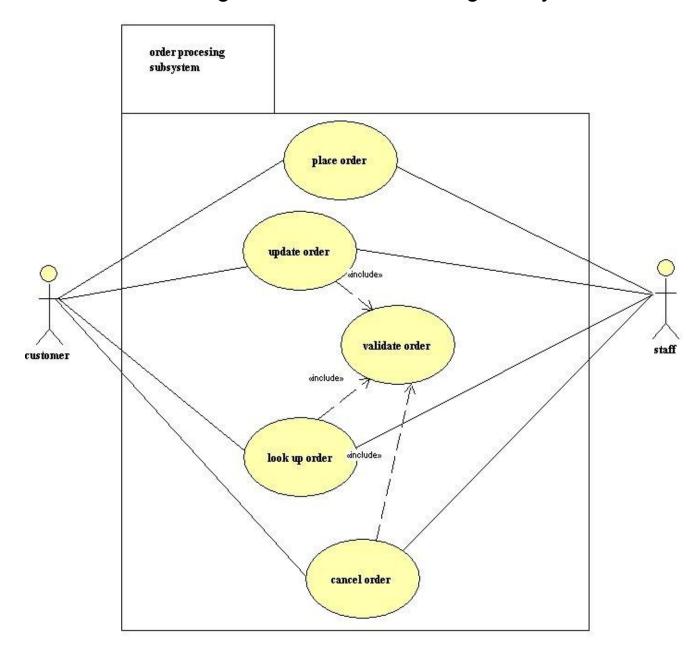




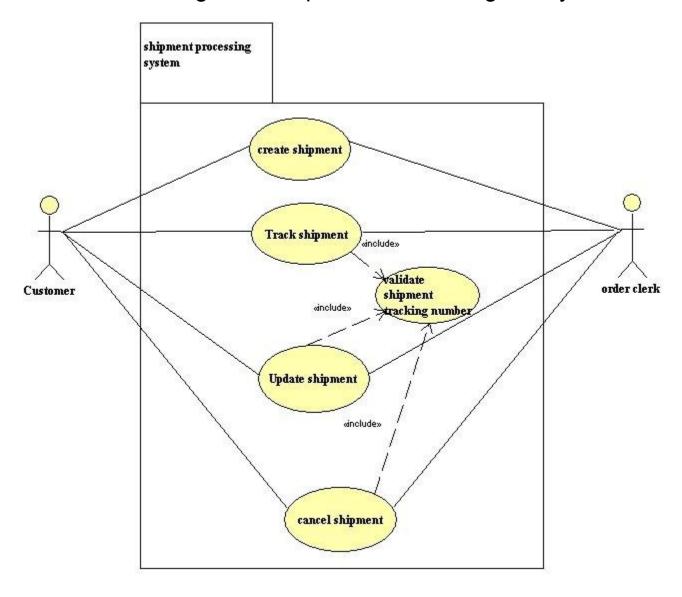




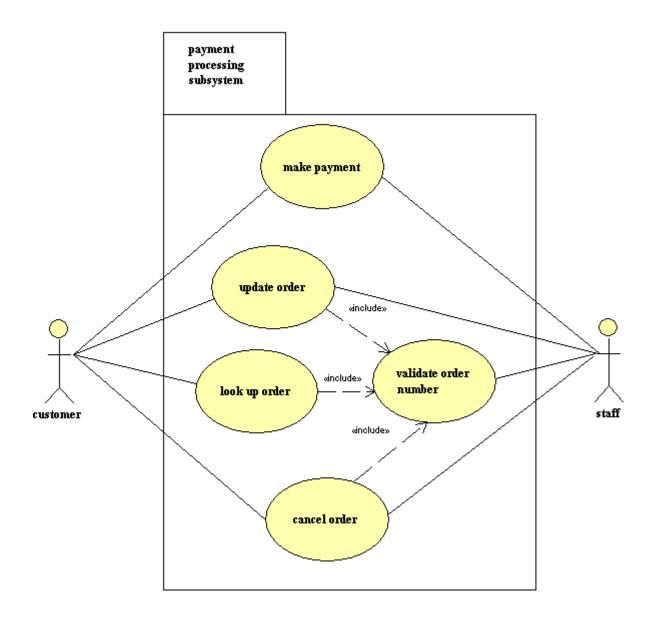
# Use Case Diagram - Order Processing Subsystem



# Use Case Diagram - Shipment Processing Subsystem



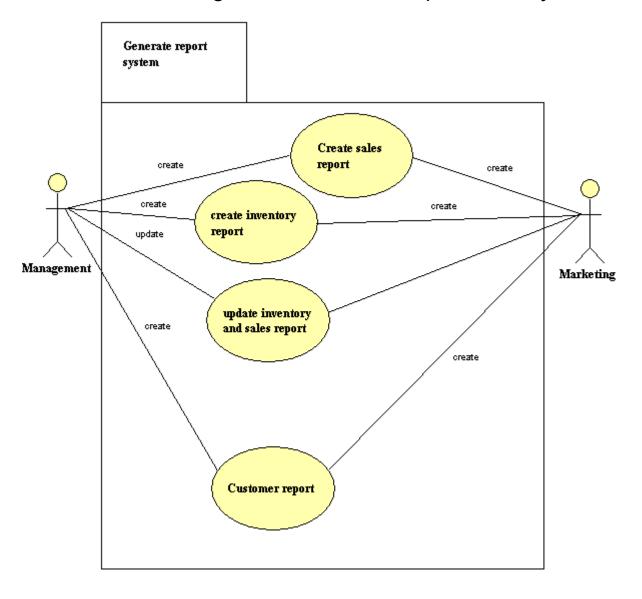
# Use Case Diagram - Payment Processing Subsystem



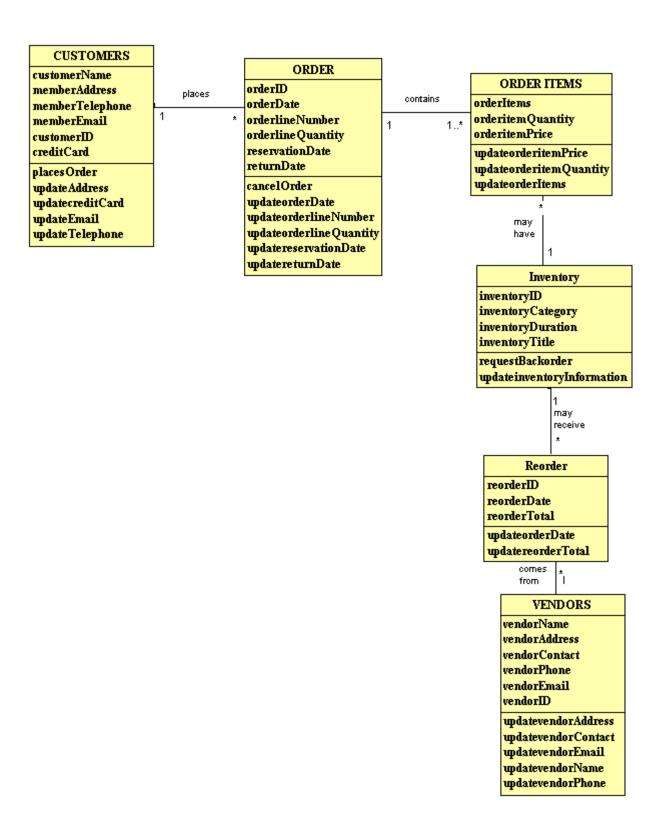
# Use Case Diagram - Refund Processing Subsystem



# Use Case Diagram - Generate Reports Subsystem



## Redbox Class Diagram



#### **Process Specification**

```
1.1.1 Check Reservation Order
SET title found = false;
WHILE title_found = false and not end of file (reorder STORE)
 GET title_name FROM reorder STORE /*get title name from reorder*/
  IF title_name = vendor new_title /*if title found*/
 THEN title_found = true /*set title_found to true and exit the loop*/
END /*END WHILE LOOP*/
CASE title found
  WHEN true
 /*the title is correct so we send it to Confirm order process*/
 SET correct title = new title
 SEND correct_title TO process 2.3.4 (Confirm Reorder)
ELSE
 /*the title is incorrect so we send it to Notify vendor process*/
 SET incorrect_title = new_title
 SEND incorrect title TO Process 2.3.3 (Notify Vendor)
END /*END CASE statement*/
```

#### **Data Dictionary**

Customers Date store has the entire customer's information

Inventory Date store has all the inventory information

Order Data store contains customer's order information

Order Item Data store contains numbers of items in an order

Reorder Data store contains all the information regarding

reorder

Vendor Data store contains the entire vendor's information

At site order Movie is ordered on kiosk

Bill is sent to the collection agent

Buffer stock recommendation The amount of each movie should be order

Charge fine Charge customer for the late fee

Confirmed reservation order Reservation has been approved

Complete order All the require information has been entered

Confirmed shipment information Information regarding an confirmed shipment

Correct shipment Shipment has all the reordered movie

Credit card charge Credit card will be charged

Credit card fine invoice An invoice that contains fine amount

Credit card information Customer's credit card information

Credit card information request Retrieve customer's credit card from data store

Customer report report contains all the information about customers

Damaged title Movie is damaged

Deposit available Deposit has been hold from Credit card

Deposit not available Deposit has not been hold from Credit card

Distribution report Report contains all the movies are distribute

Download code Code is send to customer to download online

Download movie Movie is downloaded

Expected movie

reservation to return Time frame of a movie will be returned

High level of stock out Movie has high level of out of stock

High number of rental movie Movie has high level of rental recorded

Incomplete reservation Reservation has not finished or missing some information

Incorrect shipment Shipment contains wrong titles

Incorrect shipment title Shipping title is incorrect

Invalid credit card Wrong credit card information

Invalid payment Wrong credit card information was entered

Invalid return title Wrong movie title was returned

Inventory data ready for use Inventory information is available for management

Inventory Information Information regarding all the in stock and out of stock

title

Inventory report information An inventory report with detail movie titles

Inventory summary A list of in stock and out of stock titles

Kiosk location of low inventory

List all the location with low inventory

Kiosk pickup Customer choose to pick up at Kiosk

Low individual kiosk inventory List all the inventory within the same location

Low inventory level List of Location with low inventory

Low level stock out List of low level of stock out titles

Low number of rental movie Movie with low rental history

New title shipment Shipment of new released titles

Not returned title Movie title was not being return

Online order Customer order a movie online

Order information An invoice contains order information

Phase out recommendation No recommendation was suggested

Price with coupon Price after a discount promotion

Received order Order was entered in the ordering system

Reorder information Information about reorder titles

Reorder item confirm Reorder title has confirmed with vendor

Reorder summary A summary of the reorder titles

Reservation confirm Reservation has been confirmed

Return movie Movie was being returned

Returned title Movie title was confirmed by customer

Sales data ready for use Sales data is available for management to use

Sales Report A report that has all the sales information

Sales report information List of all the rental movie title information

Satisfactory individual

kiosk Inventory

Kiosks has enough movie title available for customer

order

Satisfactory inventory level Enough movie available to rent

Title available Requested movie title is available to order

Title available Requested movie is not available

Title to hold Title has been hold for pick up

Title to reorder List of titles that needs to reorder

Total after fine List of total including fine

Total price without coupon Price without any discount promotion

Update inventory Inventory information has been updated

Update movie inventory Movie title has been updated

Update movie return record Movie return record has been updated

Update order Customer's order has updated

Update order information Order information has been updated

Update reorder information Newest reorder information is available

Update reorder item Reorder movie title has updated

Update reservation Newest reservation information available

Update return movie inventory A new list of inventory information available

Update shipment information List the newest information about shipment

Valid coupon Promotion code has not expired

Valid return title Movie title returned is correct

Vendor information inquiry Request for vendor information

Vendor information required Vendor's information is needed

#### Module: Check Return Movie Title Validity (3.2)

Purpose: To ensure the title returned by customer is valid and in good condition Input: Returned Title: Object /\* This represent the Returned Title going tto 3.2\*/

Output: Returned Title: Object

#### **Pseudo-Code Specification:**

ReturnedTitle =Get Returned Title from CUSTOMER ReturnedTitle.damage = FALSE ReturnedTitle.wrong = FALSE IF ReturnedTitle IS wrong

SET ReturnedTitle.wrong=TRUE

SEND ReturnedTitle TO process 3.3 bill Customer with Fine

Return/\* Stop execution here, done here\*/

ELSEIF ReturneTitle IS damaged

SET ReturnedTitle.damaged = TRUE

SEND ReturnedTitle TO Process 3.3 Bill Customer with Fine

**ELSE** 

SEND ReturnedTitle To Process 3.4 Confirm Return

END/\*End ELSELF statement\*/
END IF/\*End IF statement\*/

#### **Program Simplicity:**

This Module gets a returned title from a customer and then checks the returned title to see if the title is wrong or damage. This module works with [ReturnedTitle] object and two boolean attributes. The right title check is first thing we check when a customer returns a title and then the condition of the title. The [ReturnedTitle.missing] attribute is setted to be TRUE when the returned title is missing, and the object is sent to Process 3.3 Bill Customer with a fine. when the title is missing we will set it returned since there will be a fine sent to the customer and it would be meaningless to continue the execute the code to check the condition. When the returned title is present (disc is not missing), the ReturnedTitle object passes to the ELSEIF statement and checks the condition of the title. This ELSEIF statement sets [ReturnedTitle.condition] attribute to be TRUE if the title is damaged and then the object is sent to process 3.3 to Bill Customer with a fine. Because of the following statement is ELSE, there is no need to set the object to be RERURN. The final step of the code is when the title is neither missing nor damage (Missing and damage are FALSE), the Returned title object will sent to Process 3.4 to confirm the return.

#### Coupling:

This module uses "Control Coupling" because the ReturnedTitle object is passed with TRUE or FALSE flag. The Flag of the ReturnedTitle is used to determine program flow which means the object is sent it to the different processes is dependent of the boolean type referenced by the ReturnedTitle "missing" and "damage" attributes. The module uses an ReturnedTitle object as input/output, so the module uses "Stamp Coupling". Avoiding querying the database is the main advantage of holding an entire object in memory.

#### Cohesion:

The module uses "Procedural Cohesion" because there is little data relationship among function elements and data relationships in the flow control (sequence is important). In the Check Return Movie Title Validity, the module checks the title whether missing or not at first. If it is TRUE, the "IF" statement is will Return, and at the same time, the flow of the program stops the execution. When the "IF" statement returns which means the missing title is FALSE (Returned Title is correct), the control will passed to the "ELSEIF" statement where the RetuenedTitle goes to the check the title condition, when the either one of the "IF" and "ELSEIF" statement is FALSE, the object will be sent to the "ELSEIF" statement to confirm the return is valid.

Module: Reorder Title (2.2.2)

Purpose: Check order title if is correct

Input: Title: object /\*This is represents order title received by Vendor going into the Module\*/

Output: Title: Object

#### **Pseudo-code Specification:**

SET Title found = FALSE;

WHILE Title found and not end of the file (reorder STORE)

GET Title name FROM reorder STORE /\*Get all the titles name from reorder\*/

IF Title name = Vendor new Title /\*If title found\*/

THEN Title found = TRUE /\* When the Title found to be true, the loop will exit\*/

END /\* This is the end of the statement\*/

END /\*This is the end of the While Loop\*/

CASE Title found

WHEN TRUE /\*This means all the title are correct so we will sent to confirm shipment\*/

SET correct title = new title

SEND correct title TO Process 2.2.3 (Confirm shipment)

ELSE /\*This happens when the title is incorrect, so it will sent to Notify Vendor\*/

SET incorrect title= new title

SEND incorrect\_title TO Process 2.2.4 (Notify Vendor)

END /\* End of the statement\*/

#### **Program Simplicity:**

This module starts with setting the title\_found variable to be FALSE, so that the loops will go through the Reorder STORE file until there is a title match otherwise the program will reach the end of the file. In the program, when there is a match, Title\_found will be TRUE, otherwise Title\_found to set be FALSE. After that, the Title\_found variable will be passed to the CASE statement where it evaluated. when the value of the Title\_found is true, the CASE statement sends the object to Process 2.2.3 to Confirm Shipment. And when the value is is FALSE, the CASE statement sends the title object to Process 2.2.4 to Notify Vendor.

#### Coupling:

This module also uses the "Control coupling" because the title object is passed with either a TRUE or FALSE flag. The title object is used to determine the program flow. The output of the object is depends on the title object. When the title is TRUE, it will send to confirm the shipment. This module also uses the "Stamp Coupling" because the variable passing an entire object instead of some of the attributes.

#### Cohesion:

This module uses "Sequential Cohesion" Because of the variable acts as input for the WHILE loop and the output data from the loop will serve as the input for the CASE statement.

# **Cost Benefit Analysis**

This Worksheet is a Capital Budgeting Analysis for Redbox	
Automated Retail LLC	
Author: Yiwen Li	
Ranges: none Macros: none	
Assumptions	
-	
Interest rate	7.0%
Salvage value	58,000
Annual additional income	178,000

Redbox Automated					
Retail LLC Capital					
Budgeting Analysis					
	2004	2005	2006	2007	2008
	-	-	-	-	-
Annual additional					
income	178,000	178,000	178,000	178,000	178,000
Salvage value					58,000
	-	-	-	-	-
Annual cash flow	178,000	178,000	178,000	178,000	236,000
Total cash flow	948,000				
Present value	771,188				
Cost of investment	220,000				
Net present value	551,188				

55118													
8.34	5.0%	5.5%	6.0%	6.5%	7.0%	7.5%	8.0%	8.5%	9.0%	9.5%	10.0%	10.5%	11.0%
	(44,67	(47,51	(50,28	(52,99	(55,64	(58,22	(60,74	(63,20	(65,61	(67,96	(70,26	(72,50	
30000	1)	4)	8)	7)	1)	3)	5)	8)	4)	6)	3)	8)	(74,703)
	(23,02	(26,16	(29,22	(32,21	(35,14	(37,99	(40,78	(43,50	(46,16	(48,76	(51,30	(53,79	
35000	4)	2)	6)	8)	0)	4)	1)	5)	6)	7)	9)	4)	(56,223)
	(1,376	(4,811	(8,164	(11,44	(14,63	(17,76	(20,81	(23,80	(26,71	(29,56	(32,35	(35,08	
40000	)	)	)	0)	9)	4)	8)	2)	8)	8)	5)	0)	(37,744)
								(4,098	(7,270	(10,37	(13,40	(16,36	
45000	20,271	16,541	12,897	9,339	5,862	2,465	(854)	)	)	0)	1)	5)	(19,264)
50000	41,918	37,892	33,959	30,117	26,363	22,695	19,109	15,605	12,179	8,829	5,553	2,349	(785)
55000	63,566	59,243	55,021	50,895	46,864	42,924	39,073	35,308	31,627	28,027	24,507	21,063	17,695
60000	85,213	80,595	76,083	71,674	67,365	63,153	59,036	55,011	51,075	47,226	43,461	39,777	36,174

Development Costs For Redbox

Expense Category Amount
Salaries and Wages 95,000.00
Equipment 25,000.00
New Kiosk 30,000.00

Support 50,000.00 Utilities 20,000.00 Licenses 15,000.00

Total Developmen cost 220,000.00

Anual Operating Costs For RedBox

Recurring Expense Amount Conectivity 35,000.00

Technical and Equipment 35,000.00 Customer Support Center 20,000.00

Daily Operation 45,000.00

Amortization and Other 12,000.00 Total Recurring Costs 147,000.00

Annual Benefit For RedBox Benefit/Cost Saving Amount

Incresed Efficiency in Kiosk 60,000.00

Incresed Efficiency FAQ System 35,000.00
Increased Earning From Web page 170,000.00
Saing Due to System Improvement 60,000.00

Total Anunal Benefit 325,000.00

#### **Interview Questions:**

### For Manager:

- 1. How long have you been working for Redbox? I've been working for Redbox for 3 years.
- 2. Who are your main competitors? Netflix, Google play, Hulu, Crackle, Amazon, Youtube, iTunes. Blockbuster was a former competitor we acquired in June.
- 3. What is your company's competitive advantage? The ability to provide \$1 DVD rentals and \$2.50 Game rentals at a convenient location where customers already shop. Like Walgreens, Walmart, Kroger, 7-eleven, and CVS.
- 4. What are your main sources of generating revenue? We generate revenue primarily through fees charged to rent or purchase a movie or video game, and we pay retailers a percentage of our revenue. We obtain our movie and video game content through revenue sharing agreements and license agreements with studios and game publishers, as well as through distributors and other suppliers.
- 5. What are the major Business processes? Order Process, Payment process, inventory management, management reports and customer relationship.
- 6. What processes could be improved in the system? Predicting and reacting to relevant business trends, to avoid over-install kiosks in certain geographic areas leading to non-profitable installations.Out of stock Inventory, acquiring New Releases from Manufacturer
- 7. What is your current position on customer service availability? Customers are our number one priority. The Redbox Customer Care team is available Monday through Sunday: 07:00 AM to 12:00 AM for a live online chat or call. Customers can also go to redbox.com and search the Customer Service Help Center
- 8. What new innovations does your company plan on having 5 years down the line? To capitalize in Redbox's Limited Liability Company Agreement and related arrangements with Verizon Ventures. For what we hope will be the launch of video distribution services, which will provide consumers with access to video programming delivered via broadband networks to video-enabled viewing devices

#### For Staff:

- 1. What is your job position? Customer service representative.
- 2. How long have you been working for Redbox? I've been handling customer service for 2 years now.
- 3. What type of products does Redbox offer? We offer used Movies and Game rentals, as well as the ability to purchase both.
- 4. Have you ever rented from Redbox? Why? No, because they do not offer digital service.
- 5. What are the key differences between Redbox and Netflix? Redbox offers cheap and competitive prices on rentals with location convenience, Netflix are subscription based offering digital service and Movie shipment.
- 6. What kind of deals do you offer? As a member you get monthly promotions through email and text for free rental codes.
- 7. How do you do you deal with customers who have problems with out of stock rentals? I look up their location then provided the closest Redbox kiosk that has the product in stock
- 8. How does a customer place an order(phone in/ email/ walk in)? Customer can go to our kiosk then follow instruction on screen to place order as well as reserve the product online to guarantee satisfaction.