16/SP_CSCI_6620_84 Software Engineering Project
Group - C

USED BOOK & MOVIE PHYSICAL STORE AND ON-LINE WEBSITE

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Table of Contents

1. Introduction

1.1 Purpose of Document

This document discuss about the overview of the system which includes the major functionalities, limitations, scope and the basic structure.

1.2 Purpose of System

Buying a new book or movies is always expensive .In order to make it economical; we provide used books/movies at lower rates. To make it more convenient we provide online purchases on our website.

1.3 Scope of System

We provide only used books & movies for economical purposes. No e-books or soft copies are provided. Physical stores are limited to a particular region.

1.4 References

- Barnes&Noble http://www.barnesandnoble.com/
- Powell's City of Books http://www.powells.com/

2. Current System Limitations

Current systems do have the following limitations. User can order books/movies online and can collect them from the near-by physical store if they are available. User can check for the list of books/movies available in a particular store on the website. User can request for a book/movie which is not available on the website/store. Cash can be paid upon delivering the items (Cash on Delivery). Our proposed system will address all these limitations. This new system is to improve on current systems that may be paper-based, disconnected and separate from each other and therefore inefficient for running the overall business.

3. Proposed System

3.1 Overview

Our proposed system does have the following key features:

User can browse through the list of books and movies with the help of an intelligent filter system. Upon selecting a particular book/movie, user can see the details of that particular item with a short description. User can also see a list of stores where that particular item is available for sale.

User can either pay online and place the order or pay the cash at the time of delivery of the order (Cash on Delivery). If the user opts to pay online, he/she can wait for the order to be delivered or can go and get it from the nearest store if those ordered items are available.

User can use the "store locator" to access the list of physical stores and can browse the list of books and movies available in that particular store. All the above mentioned features are incorporated with a rich user friendly interface.

3.2 Functional Requirements

- **Interface Requirements**
  - Phone number field in the sign-up should accept only numeric data
  - Email field in the sign-up should be of email format

- **Business Requirements**
  - Data must be entered before a request can be approved
  - Clicking the Create My Account button moves the request to the Customer DataBase verification

- **Regulatory/Compliance Requirements**
  - DataBase will have a functional audit trial
  - System will limit the access to authorized users

- **Security Requirements**
  - All the data should be secure
  - Members of the Customer group can enter requests, but cannot approve or delete requests
  - Members of the Employee group can approve or delete requests, but cannot add requests
  - Members of the Administrator group can add employees or make changes to all the databases

3.3 Non-Functional Requirements

3.3.1 Usability

Frequently used functions should be tested for usability, as should complex and critical functions

3.3.2 Reliability

Data created in the system will be retained for a number of years without the data being changed by the system.

3.3.3 Performance

System should be compatible with all browsers.
Response Time of the system should be less.

3.3.4 Implementation

Not applicable.

3.3.5 Interface

Not Applicable.

3.3.6 Security

All the data should be securely saved.

Customer Information should be kept confidential.

3.3.7 Legal

Permission from the Government is required to start the business.

3.4 System models

3.4.1 Scenarios

Scenario Name   Create Account Successful

Participating Actors   onlineCustomer

Flow of Events

1. An onlineCustomer activates the "Create Account" function of the system.
2. The system prompts the onlineCustomer for their information (first name, last name, email address, create password and reenter password, address and contact).
3. The onlineCustomer enters all the requested information.
4. The system confirms that the onlineCustomer's password has met the standards and is accepted.
5. The system confirms that an onlineCustomer with this information does not already exist in the system and creates a new account using the onlineCustomer's information.

Scenario Name   Login Successful

Participating Actors   onlineCustomer

Flow of Events

1. An onlineCustomer activates the "Login" function of the system.
2. The system prompts the onlineCustomer for their email address and password.
3. The onlineCustomer enters their email address and password.
4. The system confirms that an onlineCustomer account matching this information exists.
5. The system allows access to the onlineCustomer's account and can browse the list of books and movies available.

Scenario Name   Login Failure

Participating Actors   onlineCustomer

Flow of Events

1. An onlineCustomer activates the "Login" function of the system.
2. The system prompts the onlineCustomer for their email address and password.
3. The onlineCustomer correctly enters their email address but incorrectly enters their password.
4. The system cannot confirm that a customer account matching this login information exists.
5. The system prompts the onlineCustomer to try again or have their password emailed to them.
6. The onlineCustomer requests that their password be sent to their email.
7. The system emails the password to the customer and indicates that fact to the onlineCustomer.

Scenario Name   Add New Item to Inventory Successful

Participating Actors   employee/Administrator

Flow of Events

1. The company receives a new book/movie to be available for sale.
2. An employee activates the "Add New Item to Inventory" function of the system.
3. The system prompts the employee for the item's information (title, author/director, year, publication/producer, description).
4. The employee enters all the requested information.
5. The system confirms that an item with this information does not already exist in the system and creates a new entry for this item using the employee's entered information.
6. The system prompts the employee for the number of copies.
7. The employee enters all the requested information.
8. The system confirms that the entered information is accepted and sets all items to be available for sale.

Scenario Name   Add Item to Cart

Participating Actors   onlineCustomer

Flow of Events

1. An onlineCustomer browses through the books/movies available for sale.
2. The onlineCustomer can select a select a book/movie by clicking on the image/title.
3. The system displays the details of the book/movie along with a description and an "Add to Cart" function.
4. After the "Add to Cart" function is activated system prompts for the quantity of the item.
5. The onlineCustomer selects the quantity and activates the "Continue" function.
6. The book/movie and the quantity selected by the user are added to the onlineCustomer's Cart.

Scenario Name   Delete Cart Item

Participating Actors   onlineCustomer

Flow of Events

1. An onlineCustomer activates the function "My Cart".
2. The system displays the books/movies that are present in the onlineCustomer's cart.
3. The onlineCustomer can delete the item by activating the "Delete" function.
4. The book/movie selected by the onlineCustomer is deleted from the onlineCustomer's cart and the onlineCustomer is notified by a system message.

Scenario Name   Modify Cart Item

Participating Actors   onlineCustomer

Flow of Events

1. An onlineCustomer activates the function "My Cart".
2. The system displays the books/movies that are present in the onlineCustomer's cart.
3. The onlineCustomer modifies the quantity of the item by activating the "Modify".
4. System prompts for the quantity of the item to be changed.
5. The onlineCustomer enters the quantity and activates the "Comfirm" function.
6. The book/movie and the quantity selected by the onlineCustomer are modified to the onlineCustomer's cart and the onlineCustomer is notified by a system message.

Scenario Name   Check Out

Participating Actors   onlineCustomer
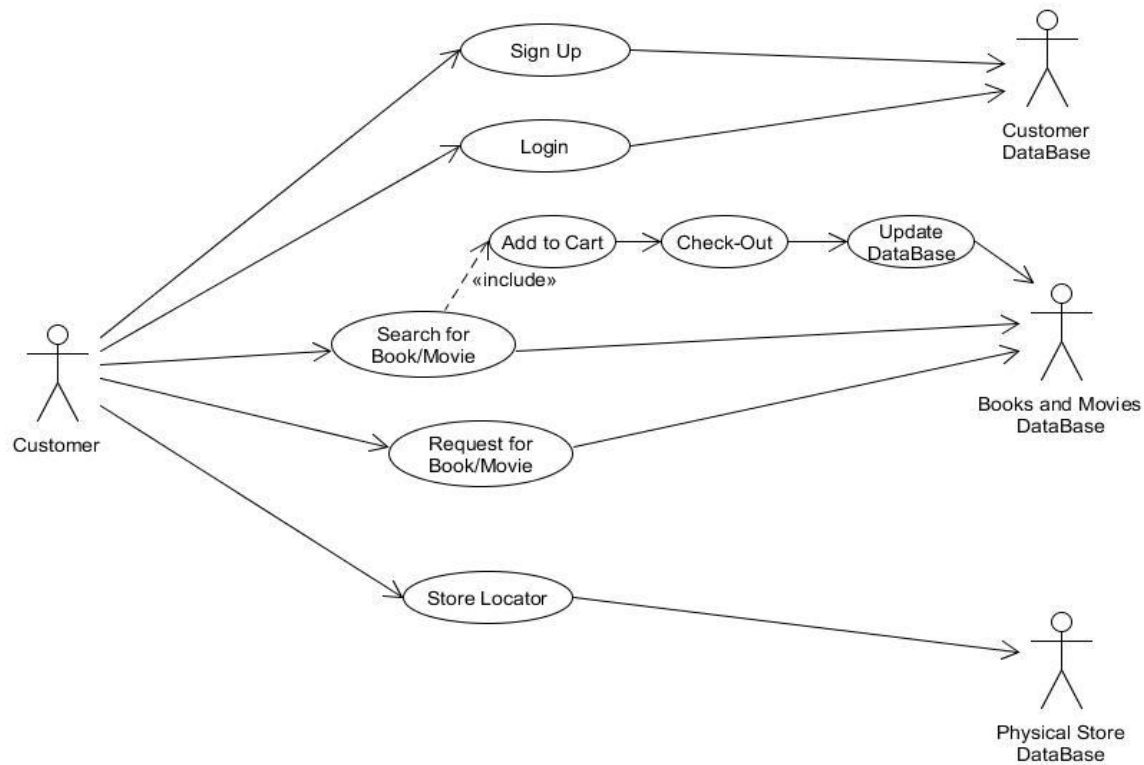
Flow of Events

1. An onlineCustomer activates the "Check Out" function.
2. The system prompts for the onlineCustomer to select the items and the quantity from the onlineCustomer's cart.
3. The onlineCustomer activates the "Continue" function.
4. The system displays the items and the quantities.
5. The onlineCustomer activates the "Confirm" function.

Scenario Name   Payment Options

Participating Actors   onlineCustomer

Flow of Events

1. An onlineCustomer activates the "Check Out" function.
2. The system displays the types of payment available: "Online Payment" and "Cash on Delivery".
3. The onlineCustomer selects the type of payment and activates the "Continue" function.

Scenario Name   Online Payment

Participating Actors   onlineCustomer

Flow of Events

1. An onlineCustomer selects the "Online Payment" and activates the "Continue" function.
2. The system prompts for the credit card details: card number and security pin.
3. The onlineCustomer enters all the requested information and activates the "Confirm Payment" function.
4. Payment is received and the onlineCustomer is notified by a system message.

Scenario Name   Edit Profile

Participating Actors   onlineCustomer

Flow of Events

1. An onlineCustomer activates the "My Profile" function.
2. The system displays the details of the onlineCustomer: First Name, Last Name, Address, email and phone.
3. The onlineCustomer activates the "Edit Profile" function.
4. The system allows the onlineCustomer to make appropriate changes (email cannot be edited) and activates the "Save Changes" function.
5. The system updates the onlineCustomer's account with the information provided.
6. The onlineCustomer is notified by a system message.

3.4.2 Use Case Model

Customer Use Case:

Written Use Case:

UseCase Name   Customer Signup
Participating Actors   Initiated by Customer
Flow of Events
      Main Flow:

1. An onlineCustomer activates the "SignUp" function on the system.
2. The system prompts the onlineCustomer to enter the required details i.e.,email, password, address, contact information. The password should be x-ed out for security.
3. The onlineCustomer enters the necessary information.
4. The system confirms that the onlineCustomer account has created with the information given and stored it in the CustomerDatabase. UseCase ends.

Alternate Flow #1:

4a. The system cannot create the customer account with the details given by the customer.
   4a1. The system prompts the onlineCustomer in which field the error occurs.
   4a2. The onlineCustomer requests to enter the signup information again.
   4a3. The system returns to Step2.

UseCase Name	Customer Login
Participating Actors	Initiated by Customer
Flow of Events	

Main Flow:

1. An onlineCustomer activates the "Login" function of the system.
2. The system prompts the onlineCustomer to enter their email address and password. The password shall be x-ed out for security.
3. The onlineCustomer enters their user information.
4. The system confirms that an onlineCustomer account matching this information exists in the CustomerDatabase. Includes Access/ModifyCustomerDatabase use case.
5. The system allows access to the onlineCustomer's account and displays the onlineCustomer's information, including the movie queue. Use case ends.

Alternate Flow #1:

4a. The system cannot confirm that a customer account matching this login information exists.
   4a1. The system prompts the onlineCustomer to either try to login again, have their password emailed to them or create a new account.
   4a2. The onlineCustomer requests to try to enter their login info again.
   4a3. The system returns to Step 2.

Alternate Flow #2:

4a2a. The onlineCustomer requests their password to be sent to their email.
   4a2a1. The system retrieves the onlineCustomer's password from the CustomerDatabase, emails it to the onlineCustomer and indicates that fact to the onlineCustomer. Includes Access/ModifyCustomerDatabase use case. Use case ends.

Alternate Flow #3:

4a2b. The onlineCustomer requests to create a new account.

    4a2b1. The system prompts the onlineCustomer to enter information for a new account.

    4a2b2. The onlineCustomer enters their account information.

    4a2b3. The system proceeds to create a customer account. Includes CreateCustomerAccount use case.

    4a2b4. The system successfully creates a new customer account.

    4a2b5. The system returns to Step 2.

Alternate Flow #4:

    4a2b4a. The system does not successfully create a new customer account.

        4a2b4a1. The system indicates to the onlineCustomer to contact customer service to resolve problem. Use case ends.

Entry condition	none
Exit condition	Either the onlineCustomer is logged into their account or has direction/help to resolve the login problem.
Quality	Requirements Any system operations that exceed 30 seconds in duration shall produce a timeout error reported to the onlineCustomer to try the operation again.

UseCase Name	SearchforMovie/Book
Participating Actors	Initiated by Customer
Flow of Events	

    Main Flow:

1. An onlineCustomer search for the book/movie which he needs.
2. The system shows the details about the book/movie he/she wants.
3. Then onlineCustomer selects the book/movie and add that book/movie to the cart.
4. onlineCustomer chooses which type of pay he wants to pay the bill.
5. The system

Administrator Use Case:
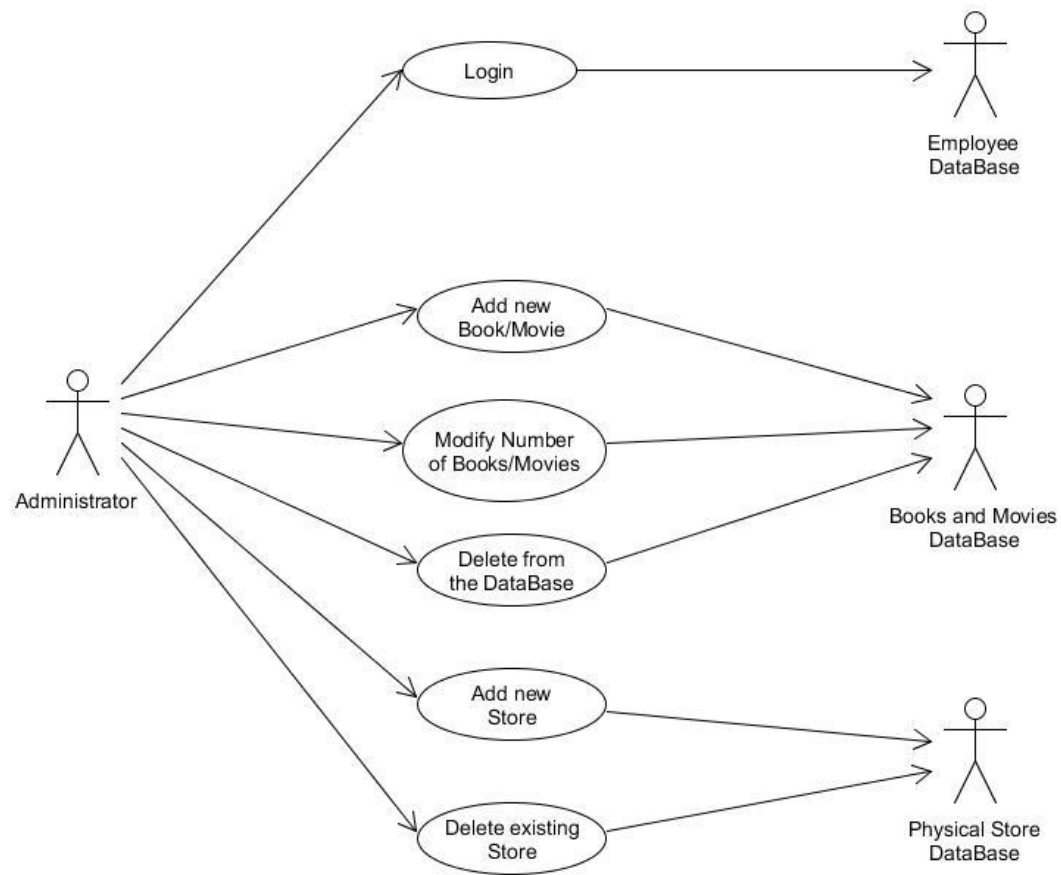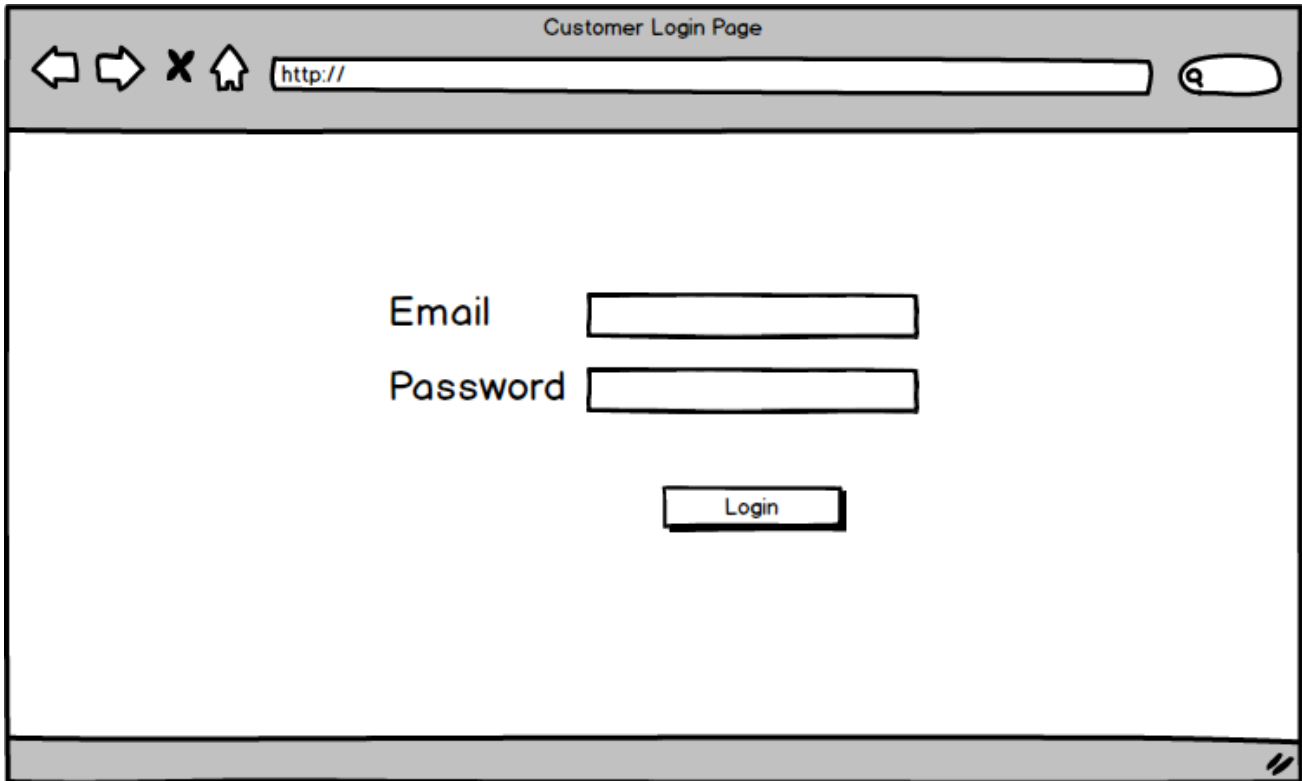
3.4.5 User Interface

Home Page
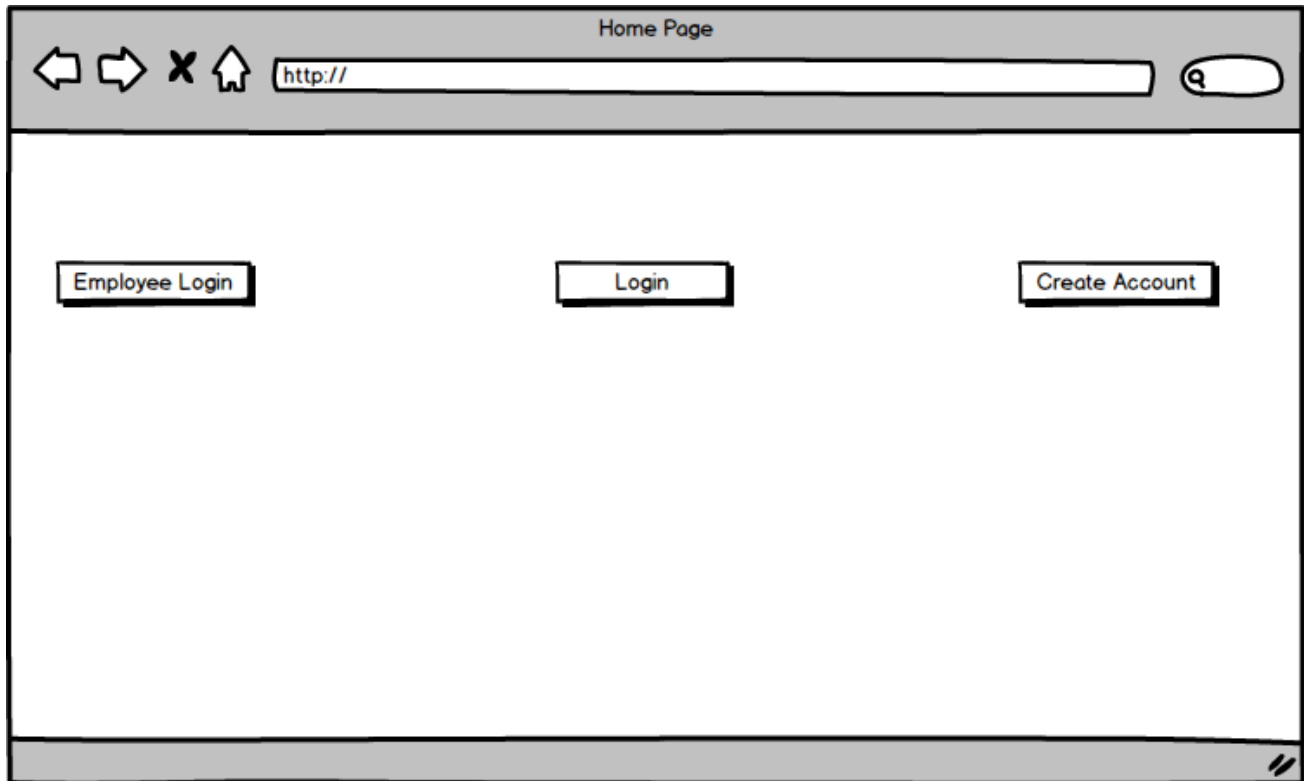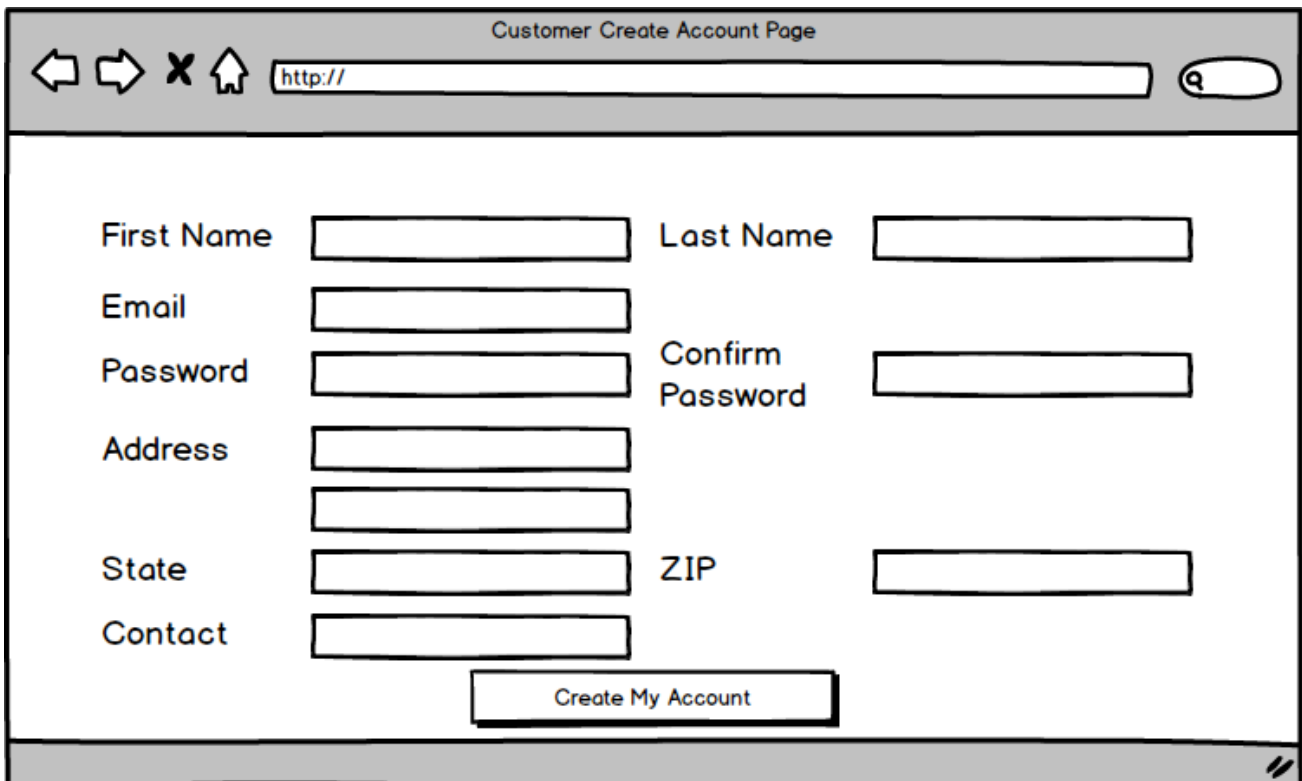
Home Page -> Customer Login

http://

Email	
Password	

Login
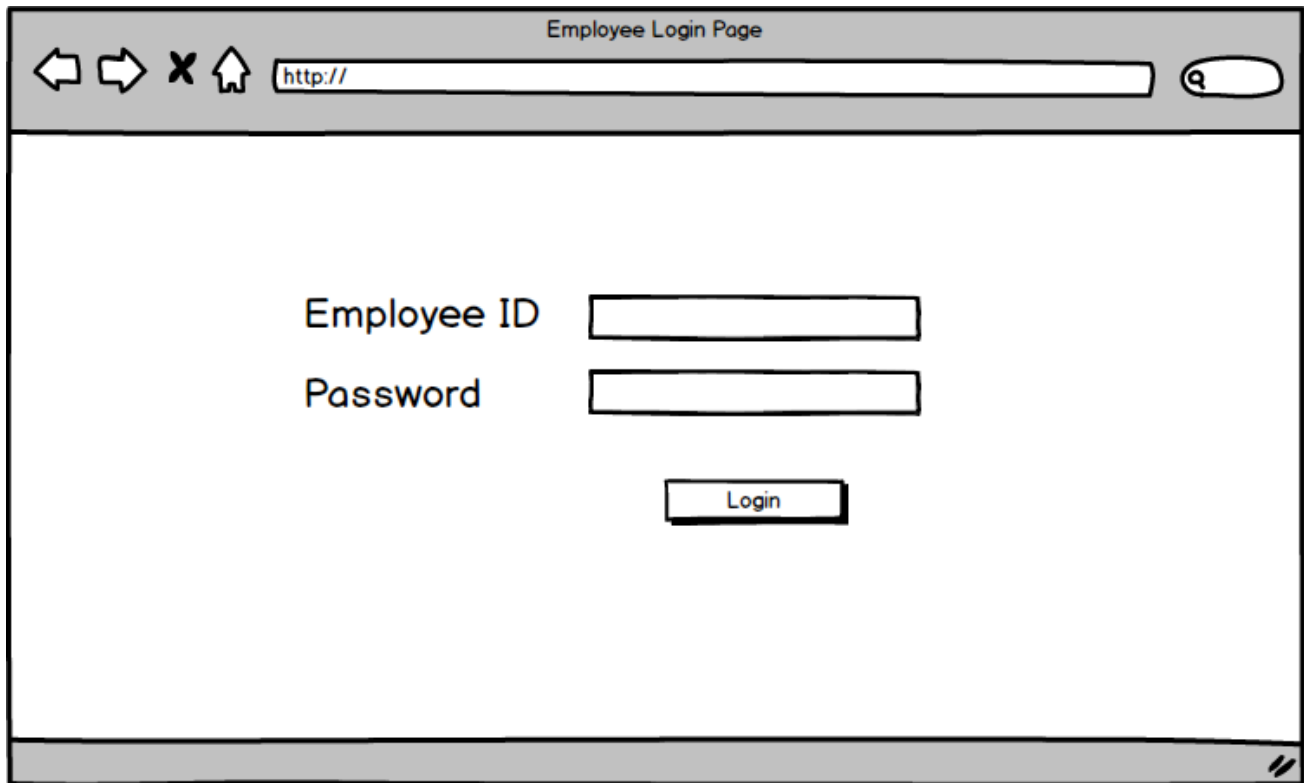
Home Page-> Create Account

http://

First Name		Last Name	
Email			
Password		Confirm Password	
Address			
State		ZIP	
Contact			

Create My Account

Home Page -> Employee Login

Employee Login Page

http://

Employee ID [   ]

Password [   ]

Login

Home Page -> Employee Login -> Add Item to Inventory

| http:// | 🔍 |

Welcome John!   Log Out

Type   ○ Book   ○ Movie

Title   [   ]

Author/Director [   ]

Year   [Select ▾]

Publication/Producer [   ]

Description   [   ]
              [   ]
              [   ]

        Cancel   Add to Inventory

Home Page -> Login -> My Account

My Profile

← ⇨ ✗ ⌂ | http:// | 🔍

My Account   My Cart   Log Out

My Profile

First Name [   ]   Last Name [   ]

Address [   ]

[   ]

State [   ]   ZIP [   ]

Contact [   ]

Cancel   Save

Home Page -> Login -> My Cart

My Cart

| My Account | My Cart | Log Out |

Image

TITLE
Author/Director
Year

Quantity ▼   Delete

Image

TITLE
Author/Director
Year

Quantity ▼   Delete

Check Out

Home Page-> Login -> My Cart -> Check Out

Payment Options

| My Account | My Cart | Log Out |

Select the type of Payment

○ Online Payment   ○ Cash on Delivery

Back   Continue

Home Page -> Login -> My Cart -> Check Out -> Online Payment

Online Payment

My Account My Cart Log Out

Enter the Details of your Credit Card

Name on the Card

Card Number

Security PIN

Back Continue

4. Glossary/Definitions

- Cash on Delivery – payment (by cash) made at the time of delivery of the order