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ELECTRONIC COMMERCE WEBSITE

Task - 1

ELECTRONIC COMMERCE WEBSITE

- The software system being produced is called Book E-Commerce System or BECS. It is being produced for a customer interested in selling books via the Internet.

LMS Username	Name	Batch
2115a621	G Venkat	A6
2115a628	Viswa J	A6
2115a617	THILAKESHWAR A	A6
2115a613	SURESH ASHWIN S A	A6

1 Introduction

The Software Requirements Specification is designed to document and describe the agreement between the customer and the developer regarding the specification of the software product requested. Its primary purpose is to provide a clear and descriptive "statement of user requirements" that can be used as a reference in further development of the software system. This document is broken into a number of sections used to logically separate the software requirements into easily referenced parts.

1.1 Purpose

Defining and describing the functions and specifications of the Products E-Commerce System is the primary goal of this Software Requirements Specification (SRS). This Software Requirements Specification illustrates, in clear terms, the system's primary uses and required functionality as specified by our customer

1.2 Scope

The software system being produced is called Products E-Commerce System or. It is being produced for a customer interested in selling Products via the Internet. This system is designed to "provide automation support" for the process of placing Products for sale on the Internet and facilitating the actual sale. This system is largely cross-platform and is available to anyone using the Computer Science Department's provided computer resources in the MSU Engineering Building. The system will be run on a central server with each user having a remote user interface through a web browser to interact with it

The system will allow customers to browse, search, select, and add Products to a shopping cart. Then, provided they have Products in their shopping cart, check out Products in shopping cart and decrement the stock that the inventory the system maintains. This interaction includes the creation (by managers) and the application to orders (by customers) of the promotions. The has full email capabilities; the automated email functionality will be used to send promotions to members of the system as well as provide the managers with low-stock notifications.

1.3 Organization

This Software Requirements Specification document is divided in to multiple subsections. The first section includes explanations of the Purpose, Scope and Organization of the document. The first section also handles the description of project specific words, acronyms and abbreviations that will be used in the document. The second section of the document is separated into the following five different sections, each detailing specific details of system uses and their corresponding actions: Product Perspective, Product Functions, User Characteristics, Constraints, Assumptions and Dependencies, Apportioning of Requirements. The third section is an enumerated listing of all of the requirements described for this system. The fourth section encompasses all of the Use-case, Sequence, State and Class diagrams that model the system. In the fifth section there exists a Prototype of the system along with a sample scenario that graphically describes the use of the system. The sixth section contains a listing of all related reference materials used in this document. The seventh and final subsection is dedicated to providing a point of contact for any viewer of this document

2. Description

This section includes details about what is and is not expected of the system in addition to which cases are intentionally unsupported and assumptions that will be used in the creation of the system

2.1 Constraints

As stated by the customer, security is not a concern for this system. The database may store passwords in plain text and there doesn't need to be a password recovery feature nor lockout after numerous invalid login attempts. As such, the system may not work correctly in cases when security is a concern. These cases include those listed above in addition to lack of an encrypted connection when sending credit card information and forcing users to use "strong" passwords. A strong password is a password that meets a number of conditions that are set in place so that user's passwords cannot be easily guessed by an attacker. Generally, these rules include ensuring that the

Task - 1

Creation of SRS & Github

- Create SRS : "Your Project"
- Creation & Set-up of Github account
- Creation & Hands-on to various commands of Git Bash

Evaluation Metric:

- 100% Completion of the above tasks

Learning Outcome

- Get to know about different lifecycle models.
- Understanding importance and how to create an SRS
- Knowing various commands of Github
- Understanding agile and scrum management techniques for efficient product development

SRS for "ELECTRONIC COMMERCE WEBSITE "

- *Functional Requirements*

- **Description**
  - As stated by the customer, security is not a concern for this system. The database may store passwords in plain text and there doesn't need to be a password recovery feature nor lockout after numerous invalid login attempts. As such, the system may not work correctly in cases when security is a concern. These cases include those listed above in addition to lack of an encrypted connection when sending credit card information and forcing users to use "strong" passwords. A strong password is a password that meets a number of conditions that are set in place so that user's passwords cannot be easily guessed by an attacker

SRS for "ELECTRONIC COMMERCE WEBSITE "

- *Software Requirements*

- User Side

  - Software: - Internet Explorer or Mozilla Firefox

- System Side

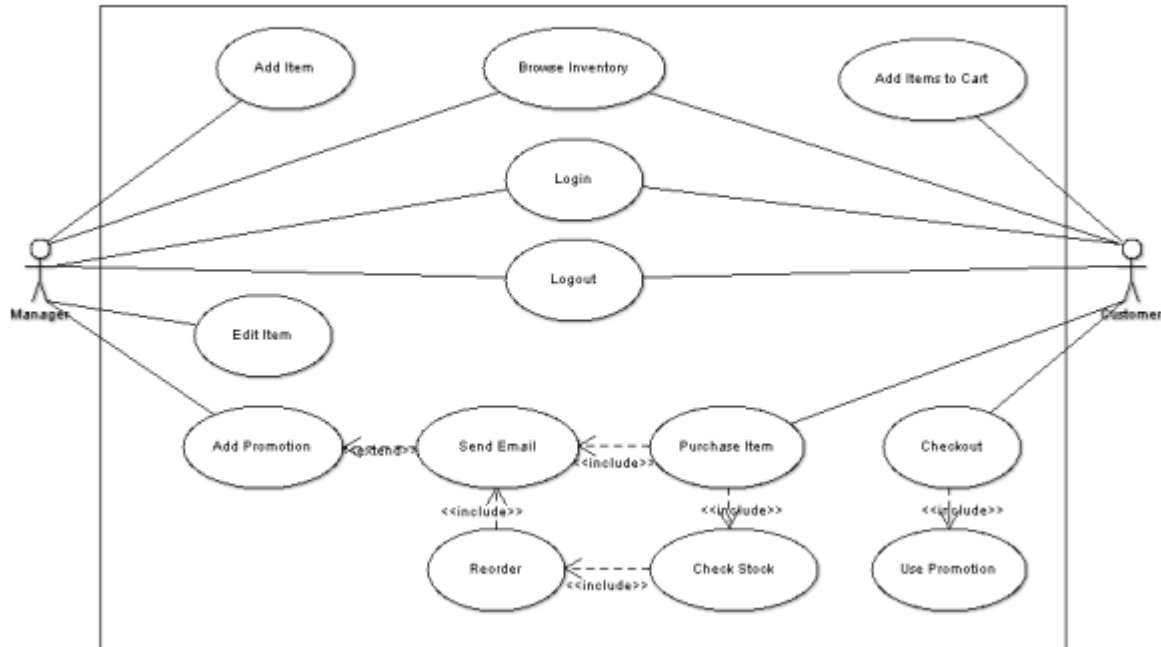 - Software: - Web-based application Database information storage system
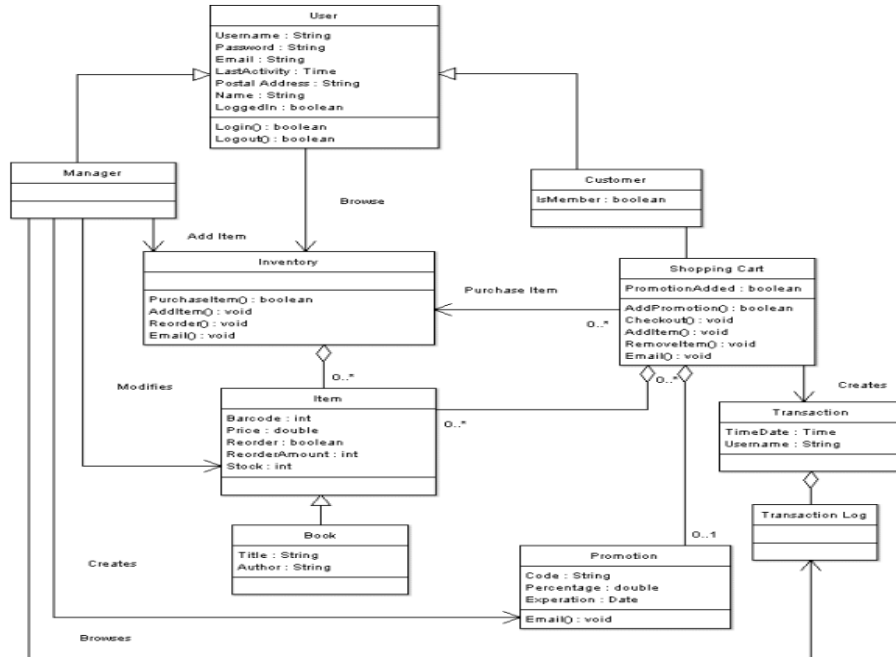
SRS for "ELECTRONIC COMMERCE WEBSITE "

- *Hardware Requirements*

- User Side

  - Hardware: - Computer or mobile that can access internet or has support browser

- System Side

  - Hardware: - Cloud computer or any local computer that can host a website using IP

Use Case Diagram

Class Diagram

Sequence Diagrams

The Manager:Manager

The Inventory:Inventory

An Item:Item

This sequence simply shows the manager who is logged in adding an item to inventory.

AddItem()

When an item is created it must have a barcode, price, number in stock, and reorder settings.

new Item

This diagram shows a sequence diagram illustrating a customer login, add item, and logout process.

Lifelines:
- A Customer:Customer
- A Customer:Customer
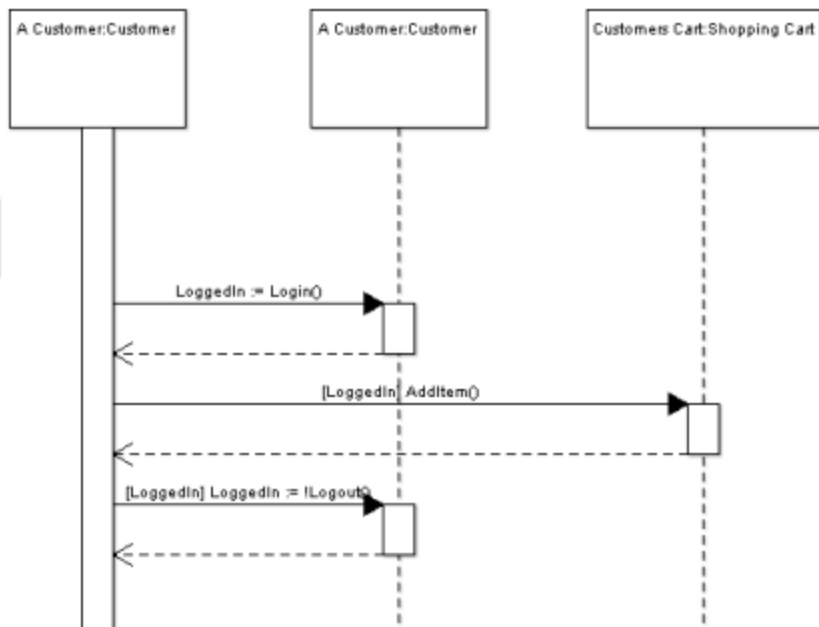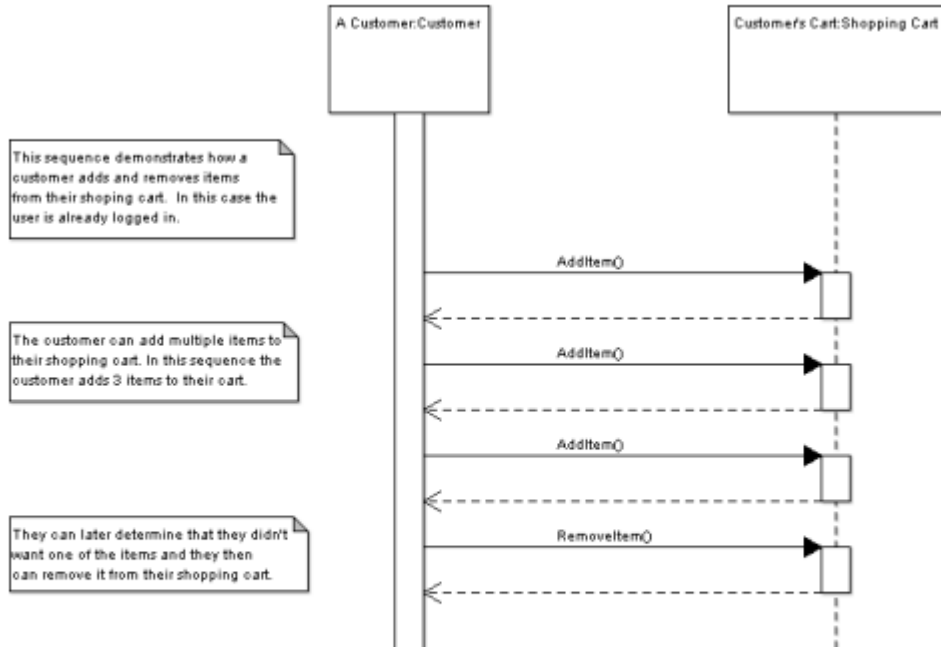- Customers Cart:Shopping Cart

Notes:

This diagram shows a user who logs in, adds an item to their shopping cart and then logs out.

Set LoggeIn to what is returned from the login function, this will be true if successful.
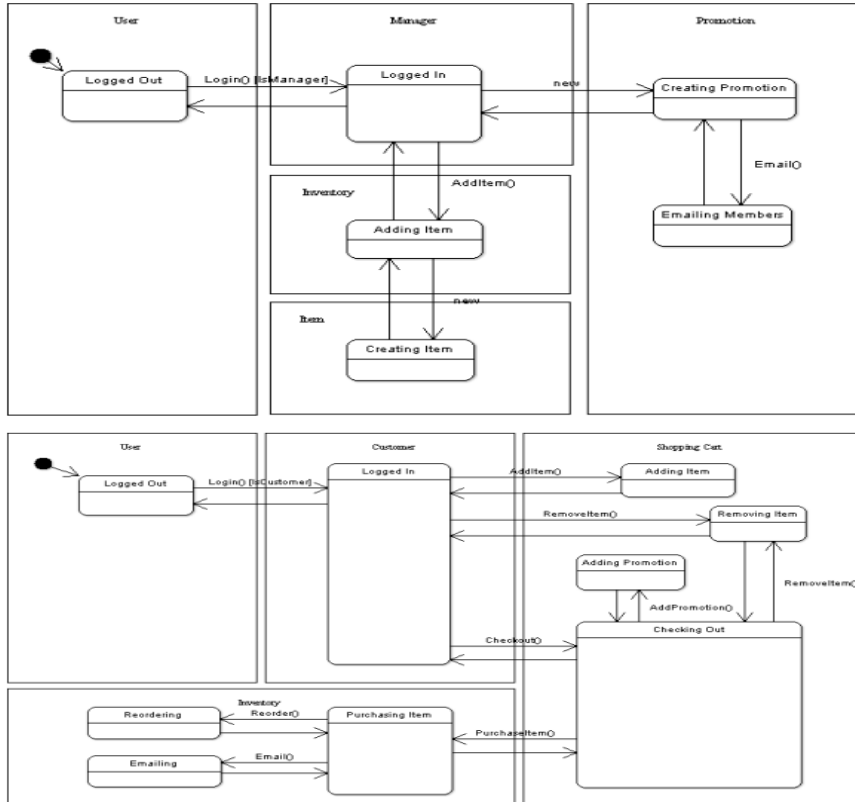
A customer must be logged in to add an item to their shopping cart.

Invert the return from logout() to set the LoggedIn variable properly.

Messages:

LoggedIn := Login()

[LoggedIn] AddItem()

[LoggedIn] LoggedIn := !Logout()

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A Customer:Customer

Customer's Cart:Shopping Cart

This sequence demonstrates how a customer adds and removes items from their shoping cart. In this case the user is already logged in.

AddItem()

The customer can add multiple items to their shopping cart. In this sequence the customer adds 3 items to their cart.

AddItem()

AddItem()

They can later determine that they didn't want one of the items and they then can remove it from their shopping cart.

RemoveItem()

State Diagrams

Assessment Parameter

Gather requirements for the project

add Readme.md file with description of the project

Prepare database design schemas

Check-List

Commit all changes with "first commit"

Get your initial project Structure ready

create a repository on github realted to project

Initiate a git repository

Push your changes to github
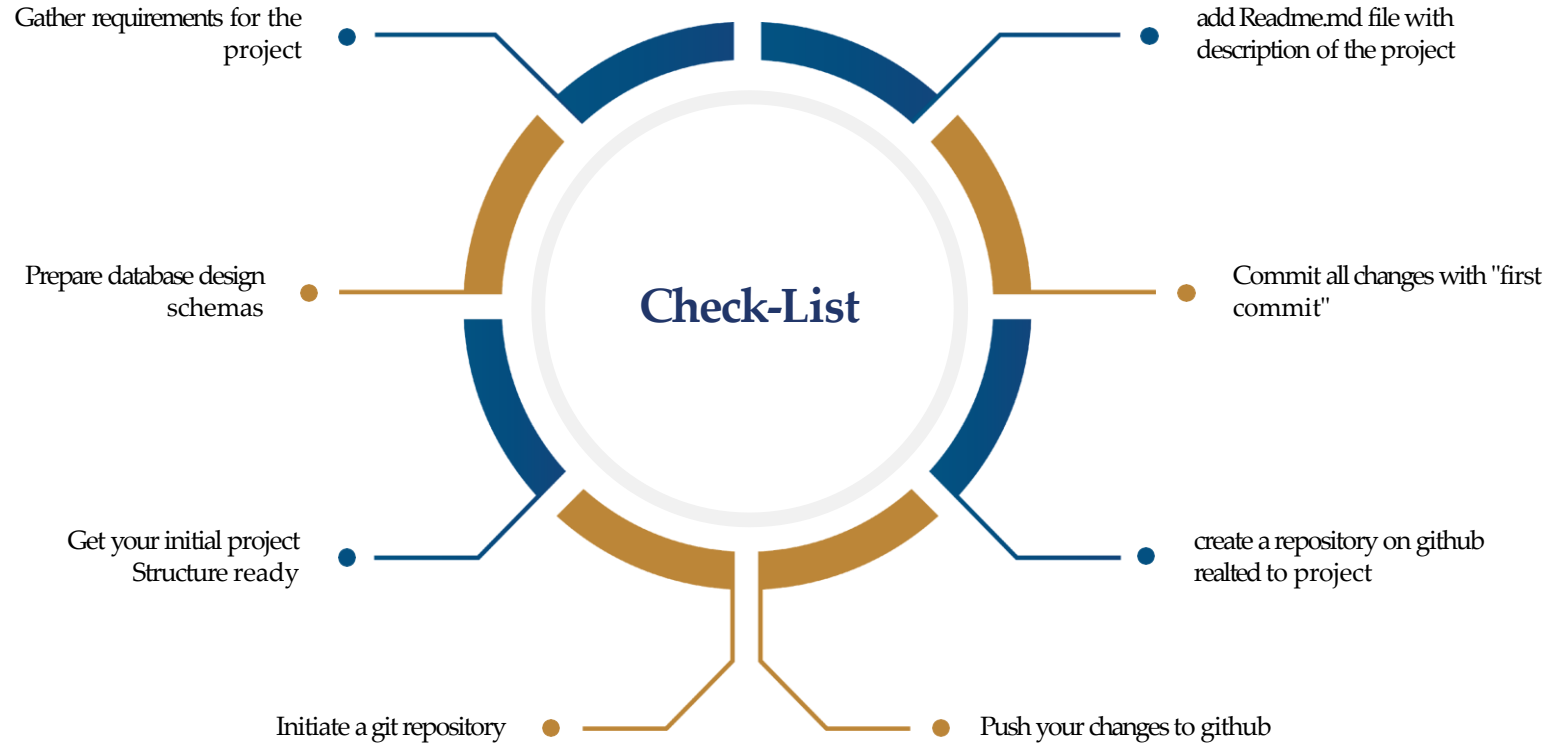
Submission Github

https://github.com/12345venkat/fullstack