19f 0151 19f0179 19f 0245 5A Assignment 3

Software Design and Architecture (National University of Computer and Emerging Sciences)

ASSIGNMENT 3

Submitted By

Talal Ahmed 19F-0245

Ahmed Raza 19F-0151

M. Tayyab 19F-0179

Section
CS-5A

Date

Fall 2021

Department of Computer Science

FAST – National University of Computer & Emerging Sciences

Chiniot-Faisalabad Campus

Question 1: Write ten core functional requirements of your system form Assignment 2?

Sr. No	Requirement	Actor	Use case
1	Database Management	Administrator	Control the database and keep track of all records of customers and employee details.
2	Contact and Giving Permission to Vendors	Administrator	Contact with the vendors and give permission to sell their product under the site after testing the product's quality.
3	View all details	Administrator	View the details of all employees and control the whole site.
4	Advertising the Site	Administrator	Responsible for making advertisements for the site
5	Login	Customer	Customers must have a valid login id to access the site
6	Registration	Customer	New users can sign up by creating new ID
7	View and edit Details	Customer	Can view/edit his personal details, payment details, and details about services provided
8	Choosing and comparing	Customer	Can view all

	products		available products and can compare them and make a choice for purchasing products
9	Purchasing	Customer	Can purchase any product through valid credit card
10	Giving Feedback	Customer	Can give feedback to the 24X7 Customer Care Service center about their impression for the site and services
11	Logout	Customer	Customer must logout of the site after purchasing products

Question 2: Write the use case description / develop use case model for the functional requirements of your System using following tabular template?

Use case Name	Database management	
Primary Actors	Admin	
Stakeholders and interests	Admin	
	system	
Precondition	Admin must have permission and data to manage database	
Post condition	If there is buying or selling data in database should be changed	
Main Success Scenario	Step No.	Action
	1	Database architecture logs in database
	2,3	updates the data, database is updated
Extensions	redesign	If there is new product redesign database

Use case Name	Purchasing
	Customer, seller

Primary Actors		
Stakeholders and interests	system	seller
	custome r	
Precondition	There must be item to be sold	
Post condition	Generate receipt and remove that item from database	

	Step No.	Action
Main Success Scenario	1	Customer select the product
	2,3	Order is placed and order is shipped.
Extensions	Reorder	If order is misplaced contact admin and reorder

Use case Name	Contact and Giving Permission to Vendors:
Primary Actors	Vendor, admin

Stakeholders and interests	Vendor	
	admin	

Precondition	Product should match quality
Post condition	Permission should be given to vendor

Main Success Scenario	Step No.	Action
	1	Vendor should add product
	2,3	quality must be tested, product should be added

Extensions	Replace product	If product does not match quality, it should be replaced

Use case Name	Advertising the Site
Primary Actors	Advertiser, admin

Stakeholders and interests	bank	To give money to company
	admin	

Precondition	There must be budget and a plan for advertisement
Post condition	Potential customers are able to get details

Main Success Scenario	Step No.	Action
	1	Advertisement company is contacted
	2,3	Deal is done and payment is made. Advertising is published.
Extensions		

Use case Name	Choosing and comparing products:	
Primary Actors	Customer	
Stakeholders and interests	Vendor	
	database	
Precondition	There available products must be selected to compare	
Post condition	Comparison of selected products will be displayed	
Main Success Scenario	Step No.	Action
	1	Browse available products
	2	Choose products of same category

Question 3: Draw the use case diagram of the system?

Use case diagram:
EasyBuy – Online Shopping Store

Login

Database management

View all details

Permission to vendors

Advertising

Registration

View and Edit details

Choosing and comparing products

Purchasing

Feedback

Logout

Administrator

Customer

Secondary Actor

Database