



CS251 – Software Engineering I

Easily sell, buy, exchange products

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CS251: Phase 1 – Selling, buying and exchanging products

Software Requirements Specifications

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Document Purpose and Audience

This document explains an easily buy, sell and exchange products online system. It describes the features that are provided by this system and functional and non-functional requirements needed from a user to use the system.

Audience of this system people are interested in selling and buying categorised products, system administrator and developers.

Introduction

Software Purpose

This software enables users to sell and add their advertisements of their products, enables users to search for a certain product, filter all the products in the system and display results also he/she can buy this product from the advertisement provider and it also provides a communication between users to facilitate buying process.

Software Scope

This software is an easily buy, sell and exchange products online system which facilitate the process of buying, selling and exchanging products between customers by make a channel between customers and is interested in customer interest and satisfaction.

More specifically, this system require from the customer to register on the website using his e-mail or Facebook account to make him/her able to use the features of this system then the system asks the customer to enter his personal information in a form so the customer now is able to add his/her products advertisements buy products from advertisements provider or exchange with them.

While adding advertisements process, the customer enters the product basic information in a form and specifies the advertisement category then post the advertisement in the system to allow all registered customers to view the advertisement and interact with it, also the system add the advertisement in a list that contains all the provided advertisements by this customer.



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While buying product process, the customer search for a product in certain category or search by a certain information about the product he need or he can search by the place of the advertisement provider or mix of these filters and they display the results of the search. Once the buyer chose the product, the system displays the product details and the provider information the buyer start his deal with the provider and send an offer to the provider and the system adds the provider to the buyers chatting list to facilitate the communication between them.

While exchanging process, the producer can select if his product is exchangeable or not, provide an optional list of his preferred categories to exchange with. Buyers can filter products from the beginning by exchangeable or not. An exchangeable product is treated exactly as a normal product.

Also the registered customer can review the system and give his feedback to the administrator so that it can be enhanced later.

Definitions, acronyms, and abbreviations

Term	Definition
System	A group of related parts that move or work together.
Advertisement	An announcement in a public medium promoting a product, service, or event or publicizing a job vacancy.
Software Requirements Specification	A document that completely describes all of the functions of a proposed system and the constraints under which it must operate. For example, this document.
Product	An article or substance that is manufactured or refined for sale.
Category	A collection of things sharing a common attribute
Chatting list	List that contains friends or near people to enable us to talk with them in a friendly and informal way.
Feedback	Helpful information or criticism that is given to someone to say what can be done to improve a performance, product, etc.
Review	A formal assessment of something with the intention of instituting change if necessary.



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Credit card	It is a payment card issued to users as a system of payment.
Audience	The assembled spectators or listeners at a public event such as a play, film, concert, or meeting.
Administrator	A person responsible for the performance or management of administrative business operations
Customer	He is the recipient of a good, service, product, or idea, obtained from a seller, vendor, or supplier for a monetary or other valuable consideration. (sometimes known as a client , buyer , or purchaser)
User	He is a person who interacts with a system, typically through an interface, to extract some functional benefit.
Developers	He is a person concerned with facets of the software development process.

Requirements

Functional Requirements

1) Sign up:

The customer must register in the system by his email so he click on sign up which will move to another page to enter his personal information like as username, password, gender, mobile no., E-mail, age, city and country. The system will not create an account to the user unless he fills all the data.

2) Sign in:

If the user is registered previously he can sign in to the system using his username and password or he can sign in if he has a Facebook account. If the user enters wrong username or password or if he is not signed in with his Facebook account, the user cannot sign in to his account.

3) User forget the password:

If the user forgot his password so the user enter his username and the system will send a verification code to his E-mail and the user will enter this code to so he can reset his password.



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4) Edit profile information:

If the user wants to change anything in his personal information, he presses on “My account” to move to another page contain all his information the he can edit any field then he saves his changes.

5) Add an advertisement:

To add an advertisement, the user can create a free advertisement for a trial period “one week” and enters the product basic information as Name, price, photo (optional) and category. After choosing category the system views the form related to this category and his subcategories (if exists) as following:

- Vehicle: Cars, bicycles or motorbikes.
- Homes: Rent or sell.
- Jobs: job opportunities or job applicant.
- Electronic devices: Mobiles, laptops or appliances.
- Clothes: kids, men or women clothes.
- Others.

Then the user posts the advertisement and it will be added to his advertisements list.

6) User edits an advertisement:

The user can edit any detail in his advertisements list by going to his list and choose a certain advertisement then all details of this product appears then the provider can edit details needed to be changed then he saves it.

7) User removes an advertisement:

The user can remove any of his advertisements by going to his list and choose a certain advertisement then he can delete this advertisement then he save changes.

8) System removes an advertisements:

After 5 days of posting the advertisements, the system sends a notification to the provider to warn him that the trial period will end after 2 days and gives him two options and he will choose one of them:

- To pay 5 dollars to allow the system to show his advertisements
If this option is chosen by the provider then the system asks the provider to enter his credit card number to pay 5 dollars then the advertisements will still until someone buy the product.
- Remove the advertisement from the system after two days.
If this option is chosen then after two days the advertisement will be removed if no one buy this product.

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9) User searches for a product:

If a user wants to search for a product then the user must sign in with his account and select the category of the product he want then the system views the form related to this category and the user fills the needed data to search with and click “search” so the system will search for the data entered by the user and display all advertisements related to the user interest.

10) User chooses an advertisement:

After the system displays all advertisements related to the user interest, the user will choose an advertisement then the system views all this product information and the information of the advertisement provider.

11) User communicates with the provider:

When the user wants to buy a product, he/she sends an offer to the provider to complete buying process or by exchanging products if the provider allows this option.

12) Feedback:

The user can send his feedback to the administrator in a form provided by the system.

13) Log out:

When the user wants to exit the system, the user will log out from his account.