Easily Buy, Sell, Exchange Products

Software Engineering 1

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CS251: Phase 1 online market team— Easily Buy, Sell, Exchange Products

Software Requirements Specifications

Team

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Document Purpose and Audience

Purpose

This document completely describes the system in terms of functional and nonfunctional requirements and serves as a contractual basis between the client and the developers.

Audience

The audience for the document includes

- The project manager.
- The system analysts.
- The system designers.
- The system developer.
- The system tester
- The system sponsors.

Introduction

Software Purpose

Provide a website where user can

- Post anything he wants to sell or exchange.

- Communicate with interested users.

Software Scope

- **The main categories in the system are**
  - Cars
    - Honda
    - Opel
  - Job Offers
    - IT Field
    - Accounting filed
    - Mass communication Filed
  - Homes

- **The main user information for signing up is Name and E-mail or Facebook account**

- **The main information for all ads is title image, description and place.**

- **The extra info for ads**

  - *Cars*

    Price, number of KM, engine capacity and model.

  - *Homes*

    Area, address, price, number of rooms, number of toilets.

  - *Job Offers*

    Salary, years of experience, Job Type (part time, full time, intern) and required skills .

- **Personal Info on ad creation is name, mobile number and note.**

- **Search filters can be by categories, subcategories or place.**

Definitions of important terms

Sign Up	Adding the user to the database of the system to allow him sell and exchange products This process is done by saving the e-mail or the Facebook account after ensuring that the e-mail is valid and unique
Log In	The user enter his e-mail or Facebook account that he used in signing up to be able to sell or exchange products
Filter	The user can only the products that he want and hide other products He can see the products of specific category , subcategory and place He can see the exchangeable products only.
Exchangeable	The exchangeable product is the product that its user want to exchange it with another product
Chat	The conversion between users.

Requirements

Functional Requirements

- User can sign up using e-mail address or Facebook account.
- User must fill his personal details in signing up.
- User can modify his personal details.
- User can log in using Facebook account or the e-mail that he signed up with.

- Seller can add an ad in any category mentioned in the scope.
- Seller must fill each of the main and the extra information for his ad.
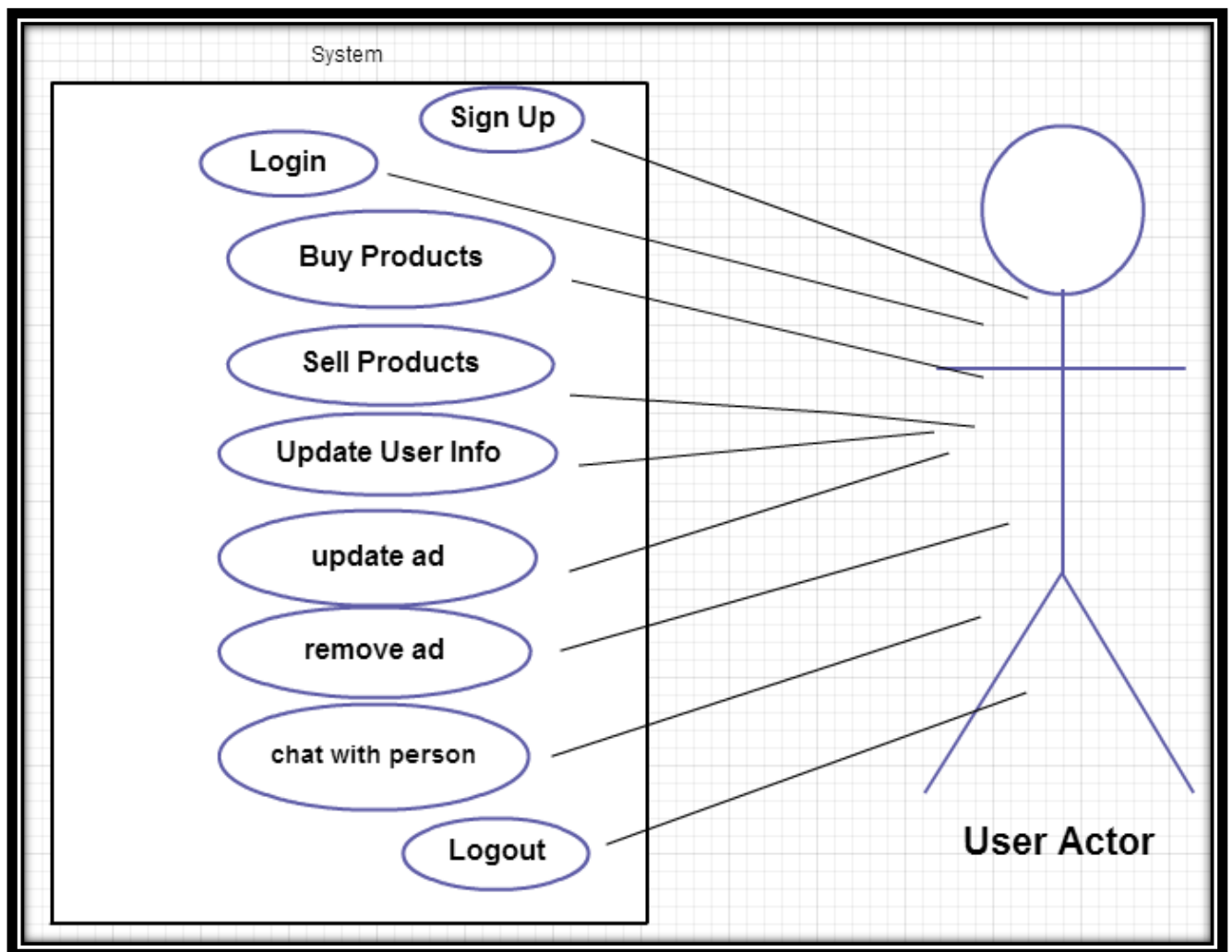- Seller can modify any information for his ad.

- Buyer can see item details and its provider's personal information .
- Buyer can send a message to the provider of the item that he interested in to open a chat channel between them.
- Buyer can filter the items by any of the search filters in the scope

Nonfunctional Requirements

- *Accessibility:*
  the user can access the website with his Facebook account or his email.

- *Reliability:*
  System facilitate the operation of selling and buying through chat and advertisements

- *Quality:*
  The System obligate the user if he is buyer or seller to fill his personal data for easy contacting   and the product info.

- *Platform:*
  The system should have version for website.

System Models
Use case Model

Use Case Tables:

Use Case ID:	1	
Use Case Name:	*Sign Up*	
Actors:	User	
Pre-conditions:	*the website loaded and start page with Sign up*	
Post-conditions:	Add the new user to database if sign up successfully	
Flow of events:	**User Action**	**System Action**
	User do one of two : 1- user fill his personal info and email to sign-up	Check using function isUserExist if the Email found reject the sign up Else add the user to database
	2- user click Facebook button if he sign up with FB, his mail	

	and name will be got from FB	
Exceptions:	The user have account before	
Included:	isUserExist() function	

Use Case ID:	2	
Use Case Name:	*Log in*	
Actors:	User	
Pre-conditions:	*the website loaded and start page with Sign up or log in*	
Post-conditions:	The user become ready to use the system if login successfully	
Flow of events:	**User Action**	**System Action**
	There is 2 action: 1- User Enter email and pas 2- User click FB button to login with it	System check using isUserExist() function if the Email and pass is valid or not - If valid redirect the user to the home page - If not valid alert the user with error
Exceptions:	the user don't have account	
Included:	isUserExist() function	

Use Case ID:	3	
Use Case Name:	*Buy product*	
Actors:	User	
Pre-conditions:	*The user must be login*	
Flow of events:	**User Action**	**System Action**
	1- User can search for products by a searching keyword or by selecting the category, subcategory, Place of provider.	1- a new window opened so user can see product details, the provider info, can send the provider his offer, and he will be added to his chatting list, can save the product to one of his lists
	2- Buyers can filter products from the beginning by exchangeable or not. An exchangeable product is treated exactly as a normal product.	
Exceptions:	The user don't logged in	

Use Case ID:	4

Use Case Name:	*Sell product*	
Actors:	User	
Pre-conditions:	*The user must be login*	
Flow of events:	**User Action**	**System Action**
	1- Seller has to choose a category of the product he wants to sell And category may or may not have a list of subcategories that the user chose too.	1- System save the product to product list in the database
	2- The seller fill a form of his personal info for easy contacting him (mobile number, name, place)	2- the System save the seller data into database
	3- The seller fill a form of the product info which depends on his selected subcategory **for car**, he fills car model, number of KM; **for home**, he fills home area, address; **for job offers,** years of experience range, salary range;	3- the System add this info the product data into database
	4- Seller can select if this product is exchangeable or not, provide an optional list of his preferred categories to exchange with.	4- the System detect the exchangeability of the product and save it with product info
	5- seller can make add on the product he want to sell	5- system save the ad to seller ads And ads database
Exceptions:	The user didn't logged in	

Use Case ID:	5	
Use Case Name:	*update ad*	
Actors:	User	
Pre-conditions:	*The user must be login and have product ads to update*	
Post-conditions:	*The ad updated and saved to ad list.*	
Flow of events:	**User Action**	**System Action**
	1- User select the ad for which he want to update and click update	1-System update ad to ad list
Exceptions:	The user don't have ads in his ads list	

Use Case ID:	6
Use Case Name:	*remove ad*
Actors:	User

Pre-conditions:	*The user must be login and have ads to delete*	
Post-conditions:	The ad was removed from the system	
Flow of events:	**User Action**	**System Action**
	1- User select the ad for which he want to delete and click delete	1-System remove the ad from user ads list
Exceptions:	The user don't have ads in his ads list	

Use Case ID:	7	
Use Case Name:	*Update user info*	
Actors:	User	
Pre-conditions:	*The user must be login*	
Post-conditions:	*Save changes user made to database*	
Flow of events:	**User Action**	**System Action**
	1- User click the settings icon And fill the form with new changes and click save	1-System save the new data to database

Use Case ID:	8	
Use Case Name:	*Send message*	
Actors:	User	
Pre-conditions:	*The user must be login.*	
Flow of events:	**User Action**	**System Action**
	1- User click the send message button and write the message and click send	1-System open chat dialog between the 2 users

Use Case ID:	9	
Use Case Name:	*Logout*	
Actors:	User	
Pre-conditions:	*The user must be login*	
Post-conditions:	*The user be out of system.*	
Flow of events:	**User Action**	**System Action**
	1- User click the logout button	1-System make the user out of system
Exceptions:	The user not logged in	