Cairo University

Faculty of computers and information

CS251: Software Engineering-1

Program: Exchange Products

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SRS phase 1

CS251: Phase 1 – Developers, Exchange Products

Software Requirements Specifications

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CS251: Phase 1 – Developers, Exchange Products

Software Requirements Specifications

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Document Purpose and Audience

- **To define Scope, Requirements and Analyze the System**
- **The audience (Owner, Developer, Tester, Sponsors)**

Introduction

Software Purpose

- **Help people to sell or exchange their unneeded products in such an easy way by making an AD. on a website and finding a proper offer from a buyer who needs such product.**
- **People who will Use the System are users (buyers, sellers) and admin of the website.**

Software Scope

- **Scope of the system:**
- **Components (ads)**
- **features**
  - ➢ **category 3 major ones Home, Car and Job Offers**
  - ➢ **Car has 2 subcategories (Honda, Opel)**
  - ➢ **Job Offer has 3 subcategories (IT field, Accounting, Mass communication field)**
  - ➢ **Extra info for cars (Price, # of KM, Engine capacity, Model)**
  - ➢ **Extra info for homes (Area, Address, Price, # of rooms, # of toilets)**

> ➤ **Extra info for Job Offers (Salary, Years of Experience, job Type(part time, full Time, intern), Required Skills)**
> ➤ **Add or remove ad**
> ➤ **Add to saving list**
> ➤ **Make an offer to seller**
> ➤ **View chat list**
> ➤ **Search filters by categories sub categories and place**
> ➤ **Login and sign up**

Definitions, acronyms, and abbreviations

Other	**If product doesn't belong to a specific category**
Chatting list	**When buyer sends an offer to a product of a specific provider he will be added to provider chatting list so they can communicate**
Saving list	**For saving ads(maybe buy later ads) that user likes**
Options list	**To list what product provider wants in exchange for his product**

Requirements

Functional Requirements

- **The system allows you to :**
  1. Login (complexity 1): allows user to enter his e-mail and password and the system checks if the user has an account. by user
  2. Sign up (complexity 1): allows the user to create a new account using an e-mail or Facebook account when this e-mail or Facebook doesn't already have an account. If he signs up by FB his name and mail will be got from his Facebook. By user

3. Add ad (complexity 3): if a user (seller) wants to post an ad to sell or exchange and he has to provide personal info (Name, Mobil, number, Note). Add info(image, title, Description, place) by user
4. Make an offer (complexity 2): propose an offer to seller to buy item on ad. By user(Buyer)
5. View chatting list (complexity 1): see all offers about user (seller) ad. By User(seller)
6. Search (complexity 4): user (buyer) search for a product by choosing a category then a subcategory and also can search using place. By user(Buyer)
7. Add to saving list (complexity 2): add item to my saving list if user like item and want to make an offer later. By user (Buyer)
8. View ad details (complexity 1): view all details about product and how to contact them. Both User (Buyer)
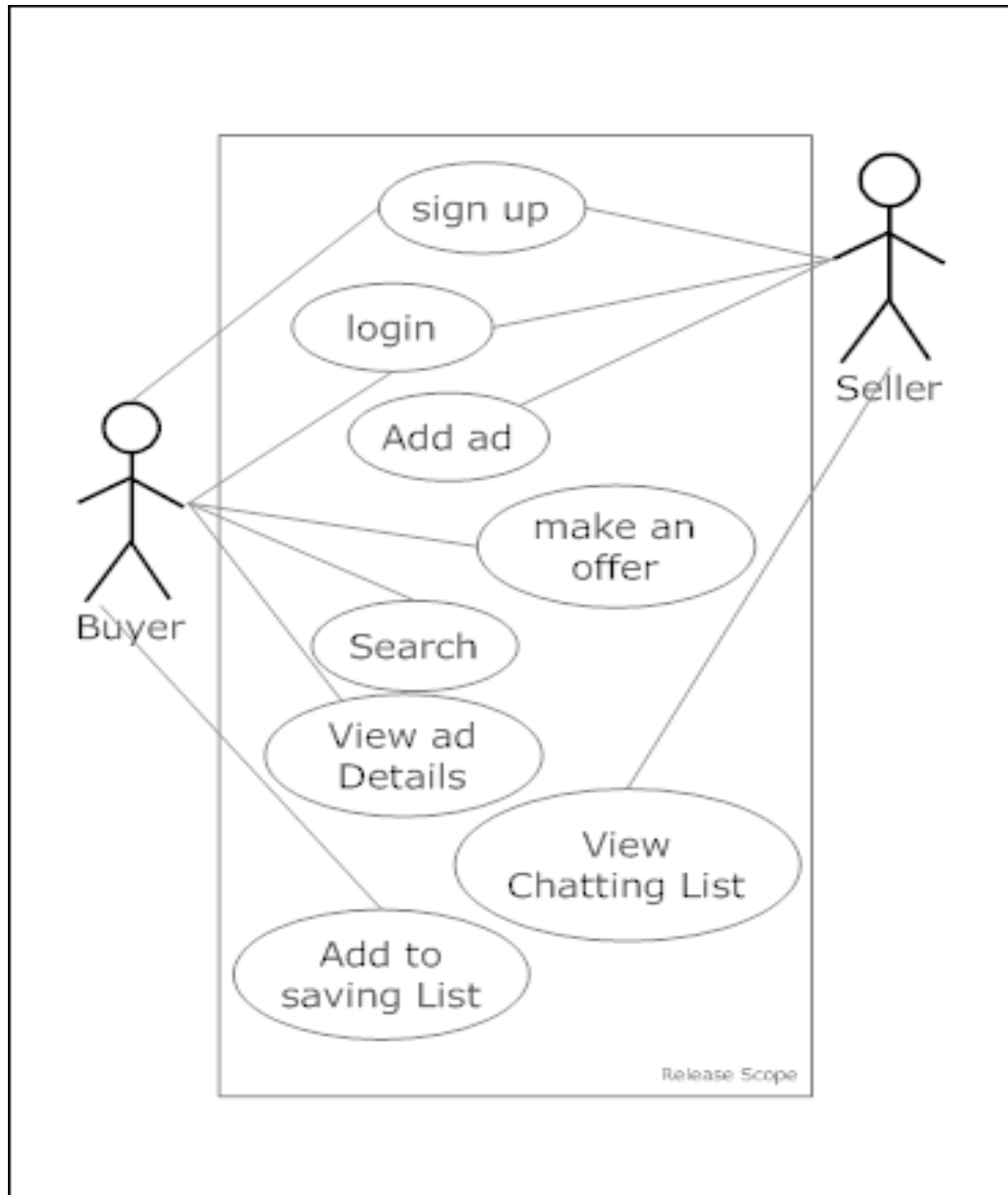
Non Functional Requirements

	Details
Security	• User has and email and password to login
Software requirements	• Backup system
Quality requirements	• Response time 10 seconds for opening • Response time 5 seconds for viewing ad
Accessibility	• Could be accessed from any user who have an account on it
Reliable and extendable	• Site doesn't fall a lot and it can be extendable if admin decides afterwards

System Models

Use Case Model

Use Case Tables

Use Case ID:	3	
Use Case Name:	Add ad	
Actors:	Seller	
Pre-conditions:	• User must login • User should fill all Ad details	
Post-conditions:	• A new add is added to system	
Flow of events:	**User Action**	**System Action**
	1- User must enter his mail and password or connect via Facebook	
		2- System Verify user data
	3- User Select add Ad	
		4- System loads the form which contains Ad details
	5- User should fill the form and click submit	
		6- System sends the Ad to Admin
Exceptions:	• Ad can be rejected due to missing information in the Ad	
Includes:	• Login	
Notes and Issues:		

Use Case ID:	4
Use Case Name:	Make an offer
Actors:	Buyer
Pre-conditions:	• User must login • Choose a category or a sub category • User must open the Ad and see it's details
Post-conditions:	• The offer by buyer is added to the Seller chatting list

Flow of events:	User Action	System Action
	1- User must enter his mail and password or connect via Facebook	
		2- System Verify user data
	3- User choose a category or a sub category	
		4- System opens the selected category or sub category and shows all Ads in it
	5- User choose a specific Ad	
		6-System shows Ad details
	7- User make an offer	
		8- System put the offer in the chatting list of the seller

Exceptions:	
Includes:	• Login • search • View Ad details
Notes and Issues:	

Use Case ID:	5	
Use Case Name:	View chatting list	
Actor:	Seller	
Pre-conditions:	Seller must have an account and be logged in	
Post-conditions:	Seller will view offers that came for his product	
Flow of events:	**User Action**	**System Action**
	1- Seller will click on view chatting list	
		2- The system will view chatting list between buyer and Provider
	3- Seller sees offers	
Exceptions:		
Includes:	Seller must be logged in	
Notes and Issues:		

Software Requirements Specifications

Use Case ID:	6	
Use Case Name:	Search	
Actor:	Buyer	
Pre-conditions:	Buyer must have an account and must be logged in	
Post-conditions:	View ads under category , subcategory or place he chose	
Flow of events:	**User Action**	**System Action**
	1- buyer will choose a category or a subcategory or a place	
		2- System will view ads under this category or subcategory
Exceptions:		
Includes:	Seller must be logged in	
Notes and Issues:		

Use Case ID:	7	
Use Case Name:	Add to saving list	
Actor:	Buyer	
Pre-conditions:	Buyer must have an account and must be logged in, Buyer searched for an item he wants	
Post-conditions:	If list exists : A new item will be added to saving list If list doesn't exist : A new list will be made and an item will be added to it	
Flow of events:	**User Action**	**System Action**
	1-buyer will click on add item to add it to his saving list for future purposes	
		2- system update item in the database of saved items of this user
	3- a new item is added to his saving list	
Exceptions:		
Includes:	Search function, login	
Notes and Issues:		

Use Case ID:	8	
Use Case Name:	View ad details	
Actors:	Buyer	
Pre-conditions:	• Login • Choose a category or sub category	
Post-conditions:	• Ad details is viewed	
Flow of events:	**User Action**	**System Action**
	1- User must enter his mail and password or connect via Facebook	
		2- System Verify user data
	3- User Select a category or sub category	
		4- System opens the category or sub category and shows all Ads in it
	4- User choose a specific Ad	
		5-System show ad details
Exceptions:		
Includes:	• Login • Search	
Notes and Issues:		

Software Requirements Specifications

Policy Regarding Plagiarism:

Students have collective ownership and responsibility of their project. Any violation of academic honesty will have severe consequences and punishment for ALL team members.

1. تشجع الكلية على مناقشة الأفكار و تبادل المعلومات و مناقشات الطلاب حيث يعتبر هذا جوهريا لعملية تعليمية سليمة
2. ساعد زملاءك على قدر ما تستطيع و حل لهم مشاكلهم فى الكود و لكن تبادل الحلول غير مقبول و يعتبر غشا.
3. أى حل يتشابه مع أى حل آخر بدرجة تقطع بأنهما منقولان من نفس المصدر سيعتبر أن صاحبيهما قد قاما بالغش.
4. قد توجد على النت برامج مشابهة لما نكتبه هنا أى نسخ من على النت يعتبر غشا يحاسب عليه صاحبه.
5. إذا لم تكن متأكدا أن فعلاً ما يعد غشا فلتسأل المعيد أو أستاذ المادة.
6. فى حالة ثبوت الغش سيأخذ الطالب سالب درجة المسألة ، و فى حالة تكرار الغش سيرسب الطالب فى المقرر.

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