CS251 –Software Engineering I

CS251: Phase 1
Project: Web Application

Software Requirements Specifications

Contents

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Document Purpose and Audience

- **Purpose:**

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Software Requirements Specifications

- o This is a software requirements specification "SRS" represents all functions desired by the client, in addition to some nonfunctional requirements recommended by developer.
- **Audience:**

Developers, Designers, Testers, Sponsor, System analyst, owner and any others interestedin web design.

Introduction

Software Purpose

- Our website system provides the ability that user can post anything in our scope he wants to sell and can search on any goods he is interested to buy in our scope.

Software Scope

- **The scope of categories:**
    - o We have 3 main categories (home, car and job offers).
    - o the job offer category has 3 sub categories (IT field, accounting field, mass communication field)
- **The info scope:**
    - o In case of creating new account(name, email "if he sign up with Facebook his mail and name will filled from Facebook account info")
    - o In case of adding ads
        - ➢ The personal info(Name, mobile number, note)
        - ➢ the basic info(Title, Image, Description, place)
        - ➢ the cars info (Price, # of KM, Engine capacity, Model)
        - ➢ the homes info(Area, address, price,# of rooms, #of toilets)
        - ➢ the job offers info(Salary, years of experience, job type "part time, Full time, intern),Required Skills)
    - o In case of search: by categories, subcategories, place.

Requirements

Functional Requirements

- Signup with Email or Facebook to create an account or sign in if the user already have account.

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- The site must split advertisement to categories and subcategories as mentioned in the scope.
- Each category may or may not have subcategories.
- The user should browse and choose the category (from categories which in our scope) of a product he want to advertise on it or buy.
- The user can add a new advertisement or remove from his previous advertisements.
- Who sell or buy or apply for any job will fill the form with basic contact information and other information about the item being sold or bought or the job as mentioned in details in the scope.
- The user can send a message or chat with people who requested any of his goods.
- The user can Search for a product "search box" by searching tools in the scope.
- Information form about advertisement provider appears when any of his products are chosen which present the ads info as mentioned in the scope.
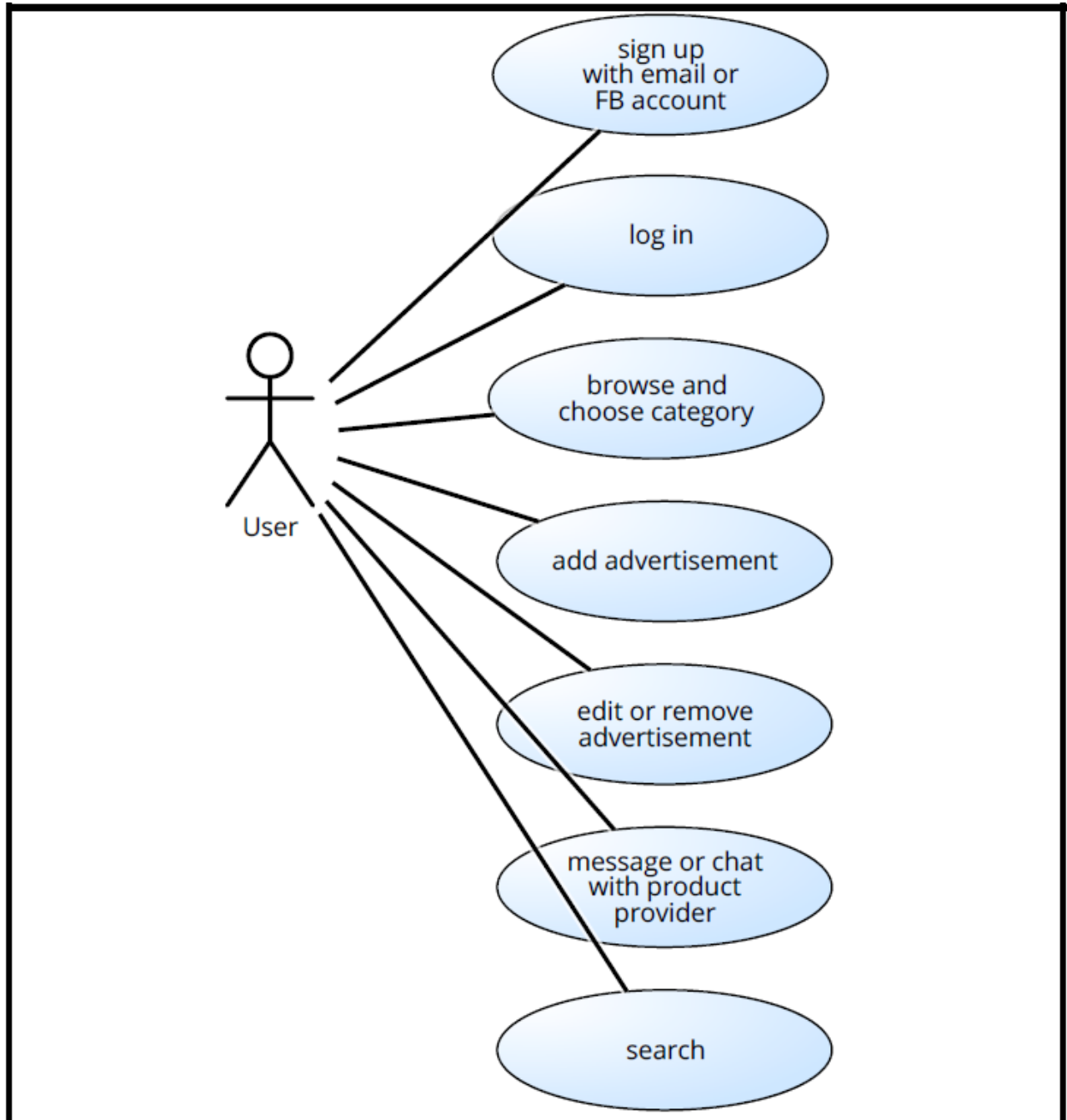
Non Functional Requirements

- **Reliability : can be considered under two separate headings :**
  - **Availability - is the system available for service when requested by end-users .**
    - 99.99% availability
  - **Failure rate - how often does the system fail to deliver the service as expected by end-users (Down Times).**
    - downtime of 52 minutes per year
- **Performance : concerns the speed of operation of a system**
  - **Response requirements -how quickly the system reacts to a user input**
    - a sub-second response time
  - **Throughput requirements -how much the system can accomplish within a specified amount of time**
- **Scalability : the capability of a system to increase total throughput under an increased load when resources (typically hardware) are added**
- **Security : how secure the system is from hackers and unauthorized users and the communication between the clients and the server should be encrypted and signed.**
- **Maintainability : the ability to change the system to deal with new technology or to fix defects.**
- **Usability : System ease of use (user-friendly),**
  - Should not take more than 3 mouse clicks to reach any feature/screen in the system.

System Models

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Use Case Model

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Use Case Tables

Use Case ID:	(1)	
Use Case Name:	Sign up.	
Actors:	Buyers and sellers "user".	
Pre-conditions:	(1) Connect to internet. (2) Open the site.	
Post-conditions:	(1) If the info achieves rules the user account will be created. (2) Else asks user to renter a new info.	
Flow of events:	**User Action**	**System Action**
	(1) Enter the basic info of creating an account as we mentioned in the scope.	• The system check if this info already exist or not and if not exist and true the system define a new user • Else the system asks user to renter the right info or sign up by mail or Facebook.
	(2) Sign up with FB or mail.	The system gets the info from mail or Facebook info.
Exceptions:	• Wrong data or missing data. o System ask user to renter info or sign up with mail or FB.	
Includes:		
Notes and Issues:		

Use Case ID:	(2)
Use Case Name:	Login
Actors:	Buyers and sellers "user".
Pre-conditions:	(1) Connect to the internet. (2) Open the site. (3) Sign up if it's your first time to use system. (4) Enter the username and password.

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Post-conditions:	(1) If the username and password are correct.
	    • The user can login.
	(2) Else if any of them is wrong
	    • The system says "wrong username or password"	

Flow of events:	**User Action**	**System Action**

	1) Enter The Username And Password To Login.	Check if username and password validate or not.
		    • If they are right the user can login
		    • Else he can't.

	2) If user forgets password.	The system asks him to enter his mail if the mail matches with the mail in account info the system will send him mail with his password.
Exceptions:	• If any of them "username &password" is missing the system show message that "this field is required". • Else if any of them isn't correct the system ask user to renter it.	
Includes:		
Notes and Issues:		

Use Case ID:	(3)	
Use Case Name:	Browse and choose category.	
Actors:	Users "sellers & buyers".	
Pre-conditions:	1) Log in.	
Post-conditions:	1) System shows details about this category	
Flow of events:	**User Action**	**System Action**
	1) Browse the categories in the site "which are included in our scope" and choose one of them	• The system show the user subcategories of this category if it exist else show to user all products in this category.

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	2) Select the product he wants to buy	• Information about the product and provider appears and tab to message or chat with him.
Exceptions:		
Includes:		

Use Case ID:	(4)	
Use Case Name:	Add Advertisement.	
Actors:	Users "seller &buyers".	
Pre-conditions:	1) Login. 2) Browse and choose category. 3) Click on the adding ads tab.	
Post-conditions:	System adds user's advertisement.	
Flow of events:	**User Action**	**System Action**
	1) The user login, choose category.	• The system asks user to enter the info "mentioned in the scope" about the item.
Exceptions:	• If the user doesn't fill required info the system shows a message saying "this is a required field".	
Includes:		
Notes and Issues:		

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Use Case ID:	(5)	
Use Case Name:	Edit or remove advertisement.	
Actors:	Users "seller & buyers".	
Pre-conditions:	1) Login. 2) Browse and choose from his products.	
Post-conditions:	System applies changes.	
Flow of events:	**User Action**	**System Action**
	1) User login, browse and choose the product he wants to edit or remove and finally choose the action edit or remove.	• System allows user to edit or remove his ad
	2) If the user choose edit the advertisement.	• System applies changes on advertisement.
	3) If the user choose to remove an advertisement.	• The system removes the advertisement
Exceptions:	User can't edit or remove advertisement he doesn't own	
Includes:		
Notes and Issues:		

Use Case ID:	(6)
Use Case Name:	Search.
Actors:	Users "buyers and sellers"

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Pre-conditions:	1) Login.	
Post-conditions:	System shows results of search.	
Flow of events:	**User Action**	**System Action**
	1) The user enters the item name and chooses to search by category or subcategory or place he wants to search on.	• If this item exists, system returns it to user. • Else the system shows message "the search object doesn't included in our scope"
Exceptions:		
Includes:		
Notes and Issues:		

Ownership Report

All members in the team owns everything in this document.