Software Engineering I

CS251

Easily Buy, Sell, Exchange Products web-application

2014

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CS251: Phase 1 – Easily Buy, Sell, Exchange Products web-application

Software Requirements Specification

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Software Requirements Specification

Team

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Software Requirements Specification

Document Purpose and Audience

Lists the whole requirements expected to be implemented and the procedure how it will be done.

It fully display and explain every single function to the customer and other developers work on the current project.

Introduction

Software Purpose

This document describes the software requirements for an "Easily Buy, Sell, and Exchange Products".

It's intended for the designer, developer and maintainer of the web-application.

Software Scope

View the products, and make the buying, selling, and exchanging easier between the buyer and the seller by viewing the information of the products through developing easy searching tool to get the best offers.

Definitions, acronyms, and abbreviations

Category	any general or comprehensive division
Sub-Category	A subdivision that has common differentiating characteristics within a larger category
Exchange	to give up (something) for something else; part with for some equivalent

Software Requirements Specification

Requirements

Functional Requirements

The functional requirements are organized in two sections: First requirements of Admin, Second requirements of User and Admin

Requirements of Admin

Add category: admin adds new category for the products which may have sub-categories

Add Sub-Category: adding the new sub-categories to the category selected

Add Form: form must be filled with certain information including the product, its category, sub-category, and price before posting any ads for each sub-category.

Add Sub-category filter: add specific filter to each sub-Category

Remove categories: delete specific categories.

Requirements of User and Admin

Sign-up: the register has to fill his personal information in specific form

Log-in: the user enters his user name and password.

View category: view the offers related to that category.

View sub-category: view the offers related to that sub-category.

Update personal information: allow the user to do any changes on his own personal information

Remove Post: delete specific post by specific user or any post by the admin

Chatting: allow users to get connected to each other or with the admin

Post Advertisement: adding new product, job-offer, any advertisements he would like to post.

Update Advertisement: adding any changes, update details about the desired post.

Software Requirements Specification

Add Post to Favorites: adding some posts to specific list for later preview.

Remove Post from favorites: remove some posts from the specific list that set-for later preview.

Search by key-word: the user just enters the word he seeks for then waits until results appear from the data base.

Search by filter: the user selects different categories and sub-categories to reach his desired post through the database.

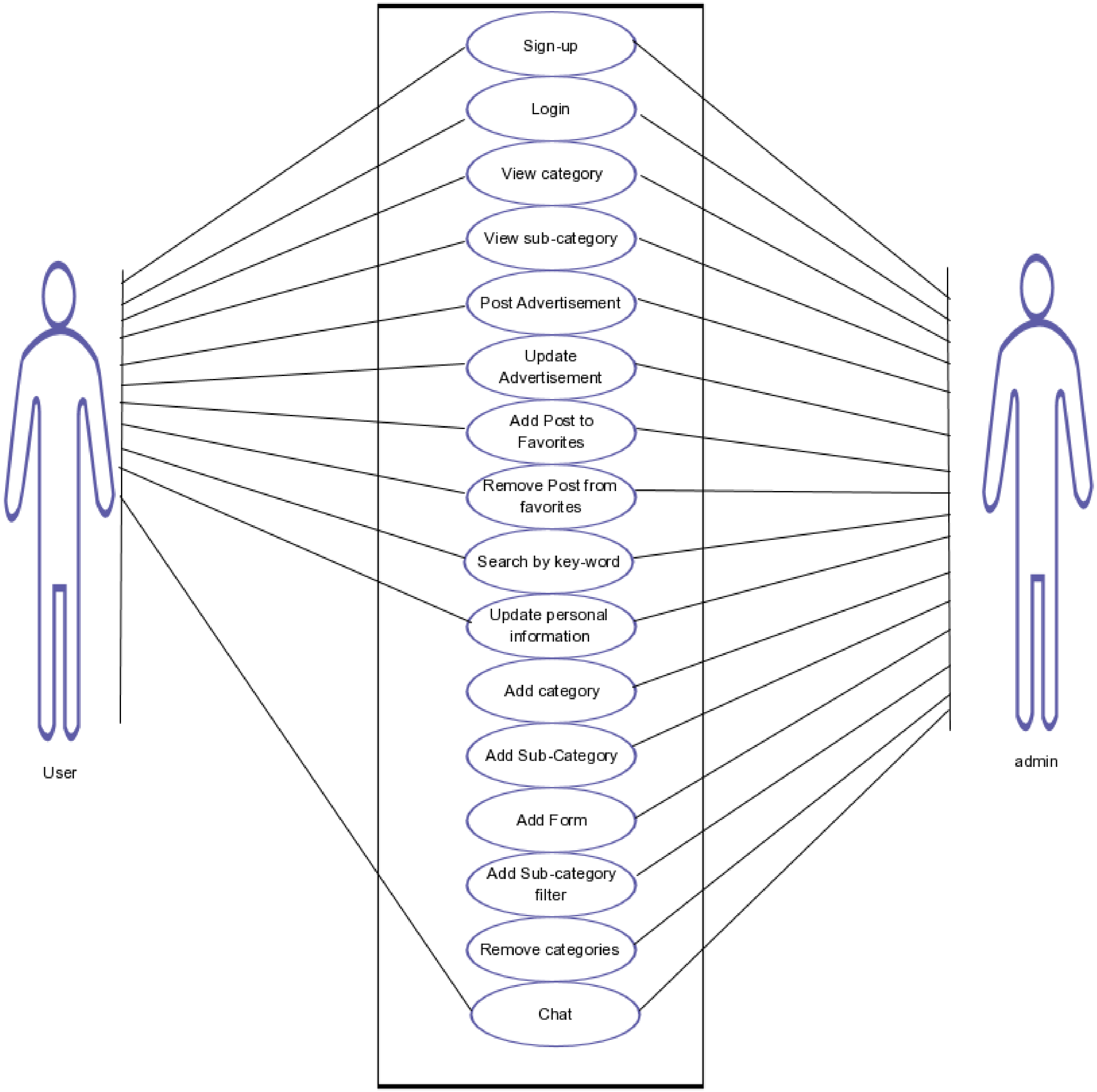
Non Functional Requirements

	Details
Performance	• Search by key-word in 1 minute • Search by filter in 20 seconds
Storage	• Saves data and posts for period from 6 months to 1 year

Software Requirements Specification

System Models

Use Case Model


Sign-up
Login
View category
View sub-category
Post Advertisement
Update Advertisement
Add Post to Favorites
Remove Post from favorites
Search by key-word
Update personal information
Add category
Add Sub-Category
Add Form
Add Sub-category filter
Remove categories
Chat
User
admin

Software Requirements Specification

Use Case Tables

Use Case ID:	1	
Use Case Name:	Sign up	
Actors:	Admin , user	
Pre-conditions:	Has an e-mail and phone number	
Post-conditions:		
Flow of events:	**User Action**	**System Action**
	1- User (admin)fill sign up form	
		2- System Verify user data and send confirmation mail
	3- User confirm on his e-mail	
		4- System create new account for him and insert it database
Exceptions:	1- e-mail is not valid system asks user to enter valid e-mail 2- user name already exists in database system ask user to enter another user name 3- user didn’t fill essential information on the form system ask user to fill this information	
Includes:		
Notes and Issues:		

Use Case ID:	2	
Use Case Name:	Log in	
Actors:	Admin, user	
Pre-conditions:	User has an account on this website	
Post-conditions:		
Flow of events:	**User Action**	**System Action**
	1- User Enter username and Password.	
		2- System Verify user data
		If the user_name and password exist allow him to log in if not ask the user to enter a valid data
	and so on	
Exceptions:		
Includes:		
Notes and Issues:	User and the admin have a different interfaces , admin can press a bottom To log-in as admin and the system move his to a different interface	

Use Case ID:	3	
Use Case Name:	update categories or subcategories	
Actors:	Admin	
Pre-conditions:		
Post-conditions:	Create form for the added subcategory Subcategory filters is added	
Flow of events:	**User Action**	**System Action**
	1-admin choose to update categories	
		2- system offers him two options a-add new category b-add new subcategory
	3- if the admin choose choice a	
		1- system displays a form to fill category information the category is added to the database
	3- if the admin choose choice b	
		4-system asks the admin to choose one of the current categories
	2- admin choose category and confirm	

		3- system displays a form to fill subcategory information system displays a form to fill subcategory filter call add filter method the subcategory is added to the database
Exceptions:	Category or subcategory is already exit	
Includes:		
Notes and Issues:		

Use Case ID:	4	
Use Case Name:	remove categories or subcategories	
Actors:	Admin	
Pre-conditions:	Category or subcategory is exit	
Post-conditions:		
Flow of events:	**User Action**	**System Action**
	1-admin choose to update categories	
		2- system offers him two options a-add new category b-add new subcategory
	3- if the admin choose choice a	
		1- system displays a form to fill category information the category is added to the database
	3- if the admin choose choice b	
		4-system asks the admin to choose one of the current categories
	2- admin choose category and confirm	
		3- system displays a form to fill subcategory information

		system displays a form to fill subcategory filter the subcategory is added to the database
Exceptions:	Category or subcategory is already exit	
Includes:		
Notes and Issues:		

Ownership Report

Item	Owners
Definitions, acronyms, and abbreviations	*Sherif Mohamed Farouk* *Ahmed Sayed Eid*
Non Functional Requirements Functional Requirements	*Sherif Mohamed Farouk* *Mahmoud Mohamed Hadad* *Ahmed Mohamed Fekry*
Use Case Model	Ahmed Sayed Eid
Use Case Tables	*Mahmoud Mohamed Hadad* *Ahmed Mohamed Fekry*