



Software Engineering I

CS251

Easily Buy, Sell, Exchange Products web-application

2014

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Git-hub link : <https://github.com/hoodahadad/SW-Project.git>



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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's intended for the project owner, project manager, designer, developer and maintainer of the web-application

Introduction

Software Purpose

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

Software Scope

Do not support mobile applications i.e. Native App

Reliable as it will be able to be trusted in both of quality and performance where the chances of failure of this software dropped to the minimum approach.

Maintainable where it will be easy to modify and upgrade it.

Scalable where it starts with "N - numbers" of categories which easily can be increased.

Categories: Home - Cars - Job offers

Sub categories:

Cars

Honda

Opel

Job offers

IT filed

Accounting filed

Mass communication Filed

Additional filters to search by forms.



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Fixed information for all ads: Title, Image, Description, and Place.

Extra information for cars: Price, # of KM, Engine capacity, Model.

Extra information for homes: Area, address, price, # of rooms, # of toilets.

Extra information for Job Offers: Salary, years of experience, Job Type (part time, full time, intern), Required Skills.

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



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Software Requirements Specification

Requirements

Functional Requirements

The functional requirements are organized into three sections: First Requirements of user in general, Second Requirements of user as buyer, Third Requirements of user as seller, Fourth Requirements of user as Account manager

Requirements of user in general

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

Log-in: the user enters his user name, password and his e-mail, or log in using Facebook mail.

View category: view the offers related to that category.

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

Requirements of user as buyer

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.

Chatting: allow users to get connected to each other

Requirements of user as Seller

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

Remove Post: delete specific post by specific user.



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Requirements of user as Account manager

View user posts: allow the user to view all his posts.

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

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

Non Functional Requirements

	Details
Performance	<ul style="list-style-type: none">• Search by key-word in 1 minute• Search by filter in 20 seconds
Storage	<ul style="list-style-type: none">• Saves data and posts for period from 6 months to 1 year
Development language	<ul style="list-style-type: none">• PHP
Support	<ul style="list-style-type: none">• HTML
Human Languages	<ul style="list-style-type: none">• Arabic• English
Security measures	<ul style="list-style-type: none">• Secured enough compared by other sites

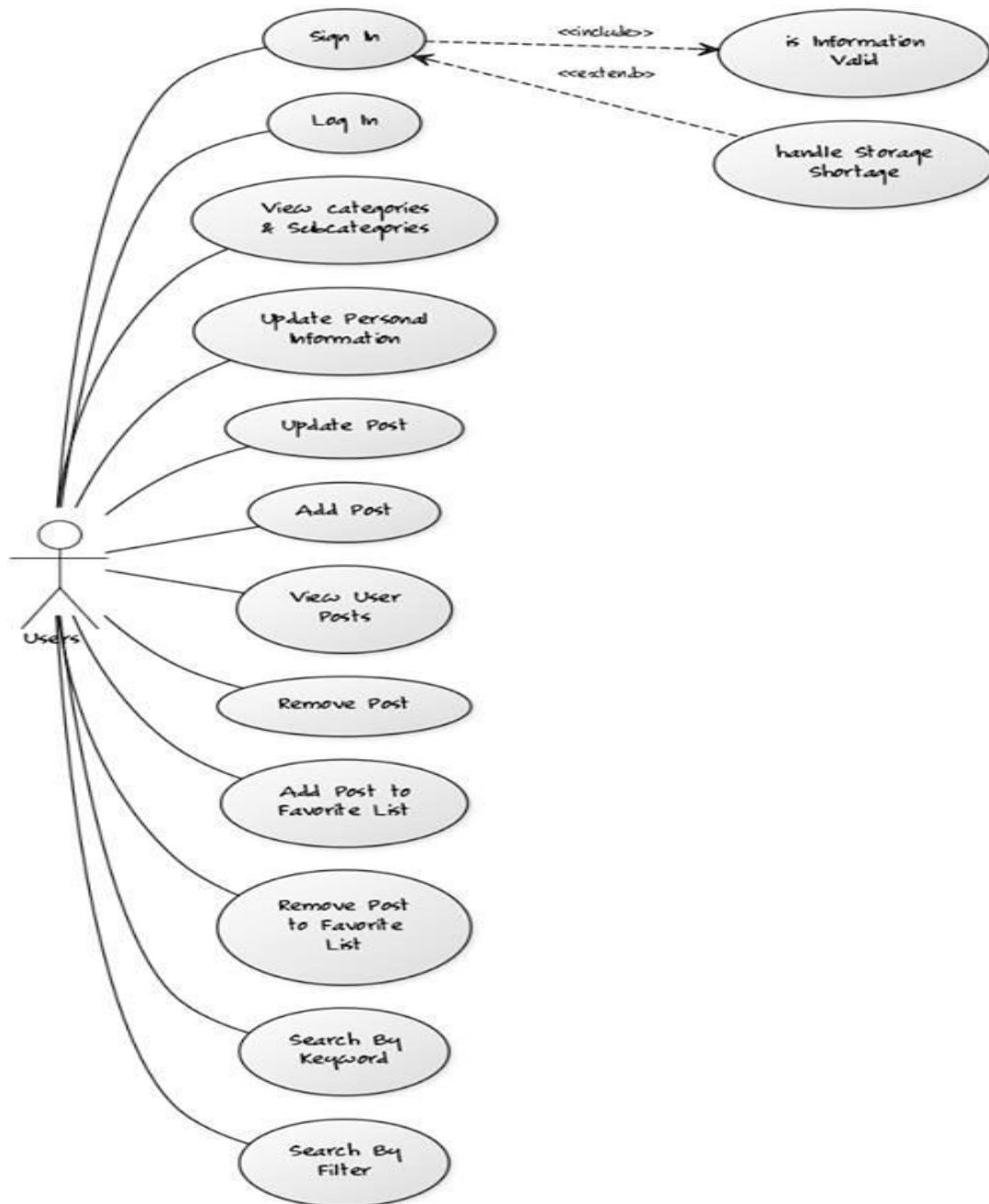


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Software Requirements Specification

System Models

Use Case Model





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Software Requirements Specification

Use Case Tables

Use Case ID:	1	
Use Case Name:	Sign up	
Actors:	User	
Pre-conditions:	User has email address or Facebook account	
Post-conditions:		
Flow of events:	User Action	System Action
		1- Let user choose to sign up with Facebook account or email
	2- If user chose to sign up with Facebook account	
		3- Ask user to enter his account and password , system read his name and email from his account
	4- If user chose to sign up with ordinary mail	
		5- Ask user to enter his mail , name and password
		6- System call isInfoValid method to check if entered data is valid
		- If method returns true check on free space on data base



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		<ul style="list-style-type: none"> ■ If there is free space create the account and inform the user
		<ul style="list-style-type: none"> ■ If no free space call <code>handleStorageShortage</code> method to handle the exception
		<ul style="list-style-type: none"> - If false ask user to enter valid data
Exceptions:	User data is not valid or exists and if no free storage on the server both cases has methods to handle them	
Includes:		
Notes and Issues:	This function read information from Facebook	



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Software Requirements Specification

Use Case ID:	2	
Use Case Name:	Log in	
Actors:	User	
Pre-conditions:	User has an account	
Post-conditions:		
Flow of events:	User Action	System Action
	1- User enter his mail and password	
		2- System check if it is valid and registered in the database
		- If yes log in and give him user permissions
		- If no ask user to enter a valid data
Exceptions:	User data not valid or not on the database	
Includes:		
Notes and Issues:		



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Software Requirements Specification

Use Case ID:	3	
Use Case Name:	View categories and subcategories	
Actors:	User	
Pre-conditions:		
Post-conditions:		
Flow of events:	User Action	System Action
	1- User choose to view the web categories	
		2- System view a list with exists categories
	3- User choose certain category	
		4- System knows which one and view all subcategories of this category then view all posts on this subcategory
Exceptions:		
Includes:		
Notes and Issues:		



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Software Requirements Specification

Use Case ID:	4	
Use Case Name:	View and update personal information	
Actors:	User	
Pre-conditions:	User logged in	
Post-conditions:		
Flow of events:	User Action	System Action
	1- User enter his profile	
		2- System view user information and ask him if he want to update them
	3- if user want to update field he choose it and choose the update option	
		4- system let user enters the new data and modify it on database
Exceptions:	User enters non valid data so system don't save it and still on the last correct data	
Includes:		
Notes and Issues:		



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Software Requirements Specification

Use Case ID:	5	
Use Case Name:	View and update user posts	
Actors:	User	
Pre-conditions:	User logged in	
Post-conditions:		
Flow of events:	User Action	System Action
	1- user browses his posts page	
		2- system views all user posts and an update option
	3- if user choose update option and chose post	
		4- system views post fields and allow user to change any one of them
		5- if user entered valid data system update the post and save the update on the server database
Exceptions:	User enters non valid data so system still on the last state	
Includes:		
Notes and Issues:		



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Software Requirements Specification

Use Case ID:	6	
Use Case Name	User Add Post	
Actors:	User	
P re-conditions:	User is signed in	
Post-conditions:	Ad is add to the website under the user name	
Flow of events:	User Action	System Action
	1- user click add a post	
		2-system render a form to the user so that he can add the advertisement information
	3-user fill the form and click submit	
		4- System add the advertisement to a category and subcategory
Exceptions:	User miss a field in the form to fill or don't choose a category or subcategory the system should warn him	
Includes:		
Notes and Issues:		



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Software Requirements Specification

Use Case ID:	7	
Use Case Name	User can remove a post	
Actors:	User	
P re-conditions:	User is signed in and he owns that post	
Post-conditions:	Ad is removed from the website under the user name	
Flow of events:	User Action	System Action
	1- user click remove a post	
		2-asks him if he is sure about that
	3-user respond with yes or no	
		4- the system removes that post from the database
Exceptions:	User click remove on a post he is not own	
Includes:		
Notes and Issues:		



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Software Requirements Specification

Use Case ID:	8	
Use Case Name	Chat	
Actors:	User	
P re-conditions:	User is signed in	
Post-conditions:		
Flow of events:	User Action	System Action
Exceptions:	1- user clicks chat with somebody	
Includes:		2- system redirect him to page he can chat from it
	3-user can receive and send messages	
Notes and Issues:		



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Software Requirements Specification

Use Case ID:	9	
Use Case Name	User Add Post to the favorite list	
Actors:	User	
P re-conditions:	User is signed in and have space in the list	
Post-conditions:	Post is add to his list	
Flow of events:	User Action	System Action
	1- user mark a post a favorite	
		2-system mark the post by a stare
Exceptions:	User don't have enough space in his list	
Includes:		
Notes and Issues:	Every user have a limit number of posts to add to his favorite list and cannot exceed them	



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Software Requirements Specification

Use Case ID:	10	
Use Case Name	User remove Post from favorite list	
Actors:	User	
P re-conditions:	User is signed in and have that post in his list	
Post-conditions:	Post is removed from his list	
Flow of events:	User Action	System Action
	1- user click remove post	
		2-his list is decreased by one and the stare is removed
Exceptions:	User miss a field in the form to fill or don't choose a category or subcategory the system should warn him	
Includes:		
Notes and Issues:		



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Software Requirements Specification

Use Case ID:	11	
Use Case Name	User can search by keyword	
Actors:	User	
P re-conditions:	User is signed in	
Post-conditions:	Post is shown to the user	
Flow of events:	User Action	System Action
	1- user enter the keyword he wants to search with in the status par	
		2-system look in the entire database for a match to that word and render all the posts that contain that keyword
	3-user choose the post he is looking for	
Exceptions:	The system does not contain such a word	
Includes:		
Notes and Issues:		



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Software Requirements Specification

Use Case ID:	12	
Use Case Name	User search by filter	
Actors:	User	
P re-conditions:	User is signed in	
Post-conditions:	Post is shown to the user	
Flow of events:	User Action	System Action
	1- user select show categories	
		2-system render a list of available categories
	3-user user choose category from them	
		4- System render a list of available subcategories user this category
	5-user choose subcategory	
		6-system render all the available post under this subcategory
	7- user select the one he is looking for	
Exceptions:	The system is not supporting that kind of categories the user is looking for the user did not find product matching his needs	
Includes:		
Notes and Issues:		



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Software Requirements Specification

Ownership Report

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