Use Cases

for

Smart Classifieds – Sell Anything

Version 1.0

Prepared by

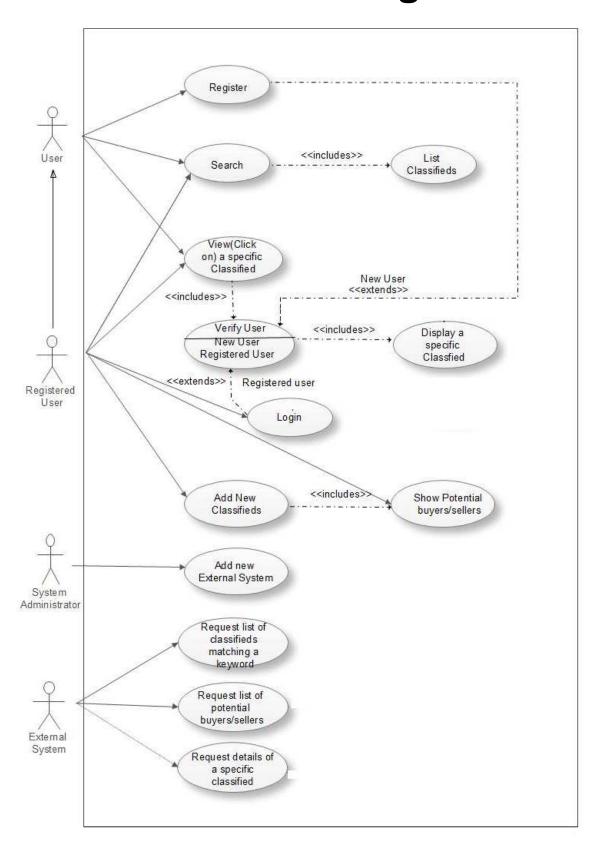Rajashekhar Reddy Ch (MT2009027)

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9th February, 2010

Use Case Diagram

Use Case List

Primary Actor	*Use Cases*
Registered User	Add new classifieds
Registered User	Show Potential buyer/Seller
Registered User	Login
Registered User / Normal User (View a specific Classified)	Verify User
Normal User	Register User
~~External System~~	~~Verify External System~~
External System	Request list of Classifieds matching a keyword
External System	Request list of potential Buyer/Seller
External System	Request Details of a specific Classified
~~Registered User (Verify User)~~	~~Save the view~~
Registered User (Save the View)	Display a Specific Classified
~~System Administrator~~	~~Add New External System~~
Registered User / Normal User	Search for a specific Classified using keywords
Normal User / External System (Search for a specific Classified using keywords)	List classifieds matching the search string
Registered User / Normal User	View(click on) a specific classified

Use Case ID:	1		
Use Case Name:	Add New Classifieds		
Created By:	Karthikeyan G A	Last Updated By:	Karthikeyan G A
Date Created:	05/02/10	Date Last Updated:	05/02/10

Actors:	Registered User
Description:	As a media for advertisements, the users who are interested in advertising their products or any other kind of classifieds should be able to tailor-make their parameters of the items. If the user adds new classifieds and the classifieds can be visible to other users. The system also provides the advertiser an approximate information about the persons who are interested in his product.
Trigger:	Registered User
Preconditions:	1. The User must be logged in to the system in-order to initiate this use case
Postconditions:	1. New item will be added to the internal repository 2. Potential audience will be visible to the user
Normal Flow:	1.0 i. The user need to enter all the mandatory Fields ii. The user need to select the appropriate category the classifieds falls into. If no related category is there he can select the others category iii. Depending the selected category the fields he needs to fill may vary. iv. As it's a classified he can give any new attributes and values v. Once he submits his classifieds he will be able to see the list of users interested in his products.
Alternative Flows:	None
Exceptions:	1.0.E.1 If the user does not enter any mandatory fields the page wont be navigated to the next page.
Includes:	Show potential Buyer/Seller
Priority:	High
Frequency of Use:	less
Business Rules:	Should be able to handle all type of classifieds under single roof.
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	2		
Use Case Name:	Show potential Buyer/Seller		
Created By:	Karthikeyan G A	Last Updated By:	Karthikeyan G A
Date Created:	09/02/10	Date Last Updated:	09/02/10

Actors:	Registered User, External System
Description:	The Registered user once adds new classified then he can view the users who will be interested in his product. To get this result the system will use the data got from other external system and use it.
Trigger:	Registered user, Add new Classified
Preconditions:	1. The User is logged in to the system 2. The user has successfully created a Classified
Postconditions:	1. The system shows the interested audience to the added classified
Normal Flow:	2.0 i. The system identifies the keyword, category type and other words form the classifieds that describes the classifieds ii. It then searches the internal repository for those user who had already searched for the same keyword or viewed similar classified iii. The system requests each of the external system for the interested audience giving the identified keywords iv. After collecting all the interested users the system displays the percentage of relevance for the audiences.
Alternative Flows:	2.1 If there are no history of interested audiences for the products is not present then the system will ask the advertiser to change the keyword.
Exceptions:	2.0.E.1 If the external system fails to respond then the section for external system is not showed, giving an info that the external system is down
Includes:	None
Priority:	High
Frequency of Use:	Moderate
Business Rules:	None
Special Requirements:	The external system should be up and ready to process the request and reply back in time
Assumptions:	None
Notes and Issues:	None

Use Case ID:	3		
Use Case Name:	Login		
Created By:	Divya Muthavarapu	Last Updated By:	Divya Muthavarapu
Date Created:	04/02/10	Date Last Updated:	04/02/10

Actors:	Normal User, Registered User.
Description:	The User should login with the username and password after registering and can access the entire details.
Trigger:	The user should register before login is done.
Preconditions:	1. User should have interest to view the details of a particular product. 2. User needs to sell a particular product
Postconditions:	1. The User can now add new classifieds, view the details of other products, identify potential audience.
Normal Flow:	3.0 i. The User before registering can only search for the items. ii. The user will be verified. iii. If he is a new user and not registered, he will be prompted to register by the system. Once registered can access the site full-fledged. iv. The User can login into the site after the process of registering by entering correct UserName and Password. v. The System checks for authorization. vi. The User can save the searches view, can identify the potential buyers when new classifieds are added by him.
Alternative Flows:	None

Exceptions:	3.0.E.1
	        The User enters wrong UserName or Password in the Login Page.
	3.0.E.2
	      The User can attempt to enter without giving UserName and Password.

Includes:	None
Priority:	High
Frequency of Use:	High
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	4		
Use Case Name:	Verify User		
Created By:	Divya Muthavarapu	Last Updated By:	Divya Muthavarapu
Date Created:	04/02/10	Date Last Updated:	04/02/10

Actors:	Normal User, Registered User.
Description:	The User should be verified if he is registered or not
Trigger:	The User should be verified after logging into the system anytime.
Preconditions:	None.
Postconditions:	1. The User will be authenticated.
Normal Flow:	4.0 i. Any User who logs in into the system will be verified by the system. ii. If the user is unregistered, only limited access of the system is available to the user like access to only limited details pertaining to search for different products . iii. If the User is Registered, full-fledged access to system is made available like the user can add new classifieds, view list of classifieds, can identify potential audience.
Alternative Flows:	None
Exceptions:	4.0.E.1 The System may fail to authenticate the user properly.
Includes:	Save the view
Priority:	High
Frequency of Use:	High
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	5		
Use Case Name:	Register User		
Created By:	Divya Muthavarapu	Last Updated By:	Divya Muthavarapu
Date Created:	04/02/10	Date Last Updated:	04/02/10

Actors:	Normal User
Description:	The User should first register to view the detailed description of a product, view list of classifieds, to add a new classified, to identify the potential buyers
Trigger:	The user should visit the site and should register When unregistered user clicks on specific Classified
Preconditions:	None
Postconditions:	1. The registered user can save the searches he has done. 2. User can now identify potential buyers.
Normal Flow:	5.0 i. The User enters the site and can register. ii. The Registered User logs in into the system with the UserName and Password created during registration. iii. The System authenticates the User. iv. The User can now access the entire information.
Alternative Flows:	None
Exceptions:	5.0.E.1 The Registration Process might be interrupted by some malusers
Includes:	None
Priority:	High.
Frequency of Use:	High
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	6		
Use Case Name:	Verify External System		
Created By:	Divya Muthavarapu	Last Updated By:	Divya Muthavarapu
Date Created:	04/02/10	Date Last Updated:	04/02/10

Actors:	External System.
Description:	Whenever the external system requests for some classifieds details, it should first be verified. Once the external system is verified, the list of potential buyers/sellers can be known by it and also the details of a specific classified can be viewed.
Trigger:	The External System should be verified whenever it requests for a list of potential buyers/sellers or when it requires the details of a specific classified.
Preconditions:	None.
Postconditions:	1. The details requested by the external system can be retrieved.
Normal Flow:	6.0 i. The external system requests for some details regarding the classifieds and its potential audience. ii. To process its request, the external system should first be verified and authenticated. iii. After verifying the external system, its request to view the potential buyers/sellers, request to view the details of specific classified will be granted.
Alternative Flows:	None
Exceptions:	6.0.E.1 The actual System may fail to authenticate the External System properly.
Includes:	None
Priority:	High
Frequency of Use:	Medium
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	7		
Use Case Name:	Request list of Classifieds matching a keyword		
Created By:	Anmol Gautam	Last Updated By:	Anmol Gautam
Date Created:	07/02/10	Date Last Updated:	07/02/10

Actors:	External System
Description:	An external system like this can also request for a list of classifieds pertaining to a keyword. The system can send the keyword/product along with an http request and obtain a list specifying the audiences interested in that product.
Trigger:	The external system provides the keyword pertaining to the product it is interested in.
Preconditions:	None
Postconditions:	List of classifieds is displayed to the system in the form of an http response

Normal Flow:	7.0
	
	    i. The External System sends the keyword/string along with the http request.
	    ii. Based on the search string, the database(external and internal) is searched and a list of matching classifieds is sent to the external system.
	    iii. Each classified in the list includes only the name of the classified and not its description. To view a classified, the sytem has to send a separate request.

Alternative Flows:	None
Exceptions:	7.0.E.1 No keyword is sent.An error response must be sent back specifying the reason.
Includes:	None
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	8		
Use Case Name:	Request list of potential Buyer/Seller		
Created By:	Anmol Gautam	Last Updated By:	Anmol Gautam
Date Created:	07/02/10	Date Last Updated:	07/02/10

Actors:	External System
Description:	The External System may request the list of potential buyers/sellers. An http request is needed to be sent to the system
Trigger:	The http request is sent specifying the request.
Preconditions:	1. External system sends the request to get the list of potential buyers/sellers.
Postconditions:	1. The list must be displayed/sent to the external system
Normal Flow:	8.0 i. When the external system triggers a request, the database(internal/external) is searched for all the potential buyers/sellers. ii. The system returns a list of potential buyers/sellers. iii. This list is displayed/returned to the external system.
Alternative Flows:	None
Exceptions:	8.0.E.1. In case, there are no potential buyers/sellers, "No buyer/seller found" is displayed.
Includes:	Verify external system
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	9		
Use Case Name:	Request Details of a specific Classified		
Created By:	Anmol Gautam	Last Updated By:	Anmol Gautam
Date Created:	07/02/10	Date Last Updated:	07/02/10

Actors:	External System
Description:	To get the details of a specific classified completely, the External System sends a request including the particular classified. This displays the entire classified, its description, and the contact details about the user who has posted the classified.
Trigger:	The external system sends the request along with the classified it is interested in from the list of classifieds displayed to it.
Preconditions:	1. A list of classifieds is displayed based on the keyword/s requested.
Postconditions:	1. The entire classified along with its description and details about the user who has posted it must be displayed.
Normal Flow:	9.0 i. The external system requests a particular classified, it is interested, from the list of the classifieds returned by the request operation. ii. In case of External System is added by the admin, the entire classified, along with its description and details about the user who has posted it, is displayed.
Alternative Flows:	9.1. 1. The External system requests a particular classified it is 2. interested in from the list of the classifieds returned by the 3. Search operation. 9.2. 4. In case if the External System is not verified, an error 5. message is displayed saying "system not verified".
Exceptions:	None
Includes:	Verifying External System
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	10		
Use Case Name:	Save the view		
Created By:	Raja	Last Updated By:	Karthikeyan G A
Date Created:	05/02/10	Date Last Updated:	25/03/10

Actors:	Registered user
Description:	This use case is mainly intended to store the date about what the user searches for. The outcome is it will show the seller the list of user's , who were interested in buying the thing which the seller wants to sell.
Trigger:	When the user clicks on the search event, then this use case is triggered
Preconditions:	1. The user must be a Registered User. 2. The item must be available in our data base.
Post conditions:	1. The database is updated with the data that the user searched for.
Normal Flow:	10.0 i. First the user searches for a certain item to buy. ii. We would display the item if available. iii. If the user want to know more details about the item, he must register. iv. When the user clicks on the item it displays the item and in the mean while it also saves the view.
Alternative Flows:	None
Exceptions:	10.0.E.1. The view may not be saved.
Includes:	Display a specific Classified
Priority:	Low
Frequency of Use:	High
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	11		
Use Case Name:	Display a Specific Classified		
Created By:	Raja	Last Updated By:	Raja
Date Created:	05/02/10	Date Last Updated:	08/02/10

Actors:	Registered user
Description:	This use case is mainly intended to display the detailed view of the data what the user searched for. The outcome is the user will get a complete view of the product he wants to buy.
Trigger:	When the user clicks on the search event, then this use case is triggered.
Preconditions:	1. The user must be a Registered User. 2. The details of the item must be available in our data base.
Post conditions:	1. The database is updated with the data that the user searched for.
Normal Flow:	11.0 i. First the user searches for a certain item to buy. ii. We would display the item if available. iii. If the user want to know more details about the item, he must register. iv. When the user clicks on the item it displays the details of the item.
Alternative Flows:	None
Exceptions:	11.0.E.1. If the details of the specified classified is not available.
Includes:	None
Priority:	High
Frequency of Use:	High
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	12		
Use Case Name:	Add New External System		
Created By:	Raja	Last Updated By:	Raja
Date Created:	05/02/10	Date Last Updated:	08/02/10

Actors:	System Administrator
Description:	This use case is mainly intended to retrieve the data from the external systems/sites. The outcome is the user will get a details of the product if it is available in the external system.
Trigger:	None
Preconditions:	1. The Admin and external system must obey upon some business rules.
Post conditions:	1. The External system can now interact with this system
Normal Flow:	12.0 i. First the user searches for a certain item to buy. ii. We would display the item available in our database and even in external system. iii. If the user want to know more details about the item, he must register. iv. When the user clicks on the item it displays the details of the item.
Alternative Flows:	None
Exceptions:	12.0.E.1 If the external system doesn't allow us to search from its database.
Includes:	None
Priority:	Medium
Frequency of Use:	Medium
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	13		
Use Case Name:	Search for a specific Classified using keywords		
Created By:	Rashmi V.H.	Last Updated By:	Karthikeyan G A.
Date Created:	04/02/10	Date Last Updated:	25/03/10

Actors:	Normal User, Registered User
Description:	A user visiting the website needs to search for the classifieds he/she is interested in. This is provided by a Search option, that allows the user to enter the relevant search string and clicking on "Search" button. This returns a list of all the classifieds that match the search string, thus helping a user get to the classifieds he/she is interested in.
Trigger:	User enters keywords to find relevant Classifieds and clicks on Search Button
Preconditions:	None
Postconditions:	1. List of classifieds is displayed to the user
Normal Flow:	13.0 i. User navigates to the "Search" text box and enters the search string. ii. Click on Search iii. Based on the search string, the database (external and internal) is searched and a list of matching classifieds is displayed to the user. iv. Each classified in the list includes only the name of the classified and not its description. To view a classified, the user has to click on the classified.
Alternative Flows:	None
Exceptions:	13.0.E.1 When no search string is entered and search is clicked, the control must remain in the same page and search must not be triggered.
Includes:	List classifieds matching the search string
Priority:	Low
Frequency of Use:	High
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	14		
Use Case Name:	List classifieds matching the search string		
Created By:	Rashmi V.H.	Last Updated By:	Karthikeyan G A
Date Created:	10	Date Last Updated:	25/03/10

Actors:	Normal User, External System
Description:	When a user searches for any classifieds matching a search string that he enters, a list of all the classifieds that match have to be displayed. This helps the user get to the exact classified he is interested in.
Trigger:	User enters search string, clicks on Search and the system retrieves a list of all the matching classifieds.
Preconditions:	1. User enters search string and clicks on Search button
Postconditions:	None
Normal Flow:	14.0 i. Once the user enters the search string and clicks on search, the database(internal/external) is searched for all the matching classifieds. ii. The system returns a list of the classifieds matching the search string. iii. This is displayed to the user. The list shows only the name of the classifieds and not the description. To view the entire classified the user is required to click on it.
Alternative Flows:	None
Exceptions:	14.0.E.1 1. If there are no classifieds matching the search 2. string ,"No matching Classifieds found" is displayed.The user can repeat the search using different keywords.
Includes:	None
Priority:	Low
Frequency of Use:	High
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None

Use Case ID:	15		
Use Case Name:	View(click on) a specific classified		
Created By:	Rashmi V.H.	Last Updated By:	Rashmi V.H.
Date Created:	04/02/10	Date Last Updated:	04/02/10

Actors:	Normal User, Registered User
Description:	Once a user searches for anything, a list of relevant classifieds is displayed. To view any classified completely, the user has to click on a particular classified. This displays the entire classified, its description, and the contact details about the user who has posted the classified.
Trigger:	User navigating to the classified he is interested in from the list of classifieds displayed and clicking on it.
Preconditions:	1. A list of classifieds has been displayed based on the search string entered by the user.
Postconditions:	1. The entire classified along with its description and details about the user who has posted it must be displayed.
Normal Flow:	15.0 i. User navigates to a particular classified he is interested in from the list of the classifieds returned by the Search operation. ii. Clicks on the classified. iii. The entire classified along with its description and details about the user who has posted it is displayed.
Alternative Flows:	15.1 If a Registered user clicks on a classified, the Login page is displayed and the user is required to login before he can see the classified. 15.2 If a new user clicks on a classified, the Registration page is displayed and the user is required to register before viewing the classified.
Exceptions:	15.0.E.1 The external system fails to return the details of the classified being viewed, appropriate error message must be displayed
Includes:	Verifying user(registered or new user)
Priority:	High
Frequency of Use:	High
Business Rules:	None
Special Requirements:	None
Assumptions:	None
Notes and Issues:	None