

Ref #	Basic Functional Requirement
B-A	User Accounts and Account Actions
B-A-01	The Application allows both Non-Registered Users and Registered Users to: <ol style="list-style-type: none"> 1. Browse the website; and 2. Search for Items
B-A-02	The Application allows users to create login accounts (the Application should support Registered Users) and allows Registered Users to login and logout of the Application.
B-A-03	The Application allows Registered Users to delete their account and easily remove all their data from the Application; in both cases, it should be as easy as going to the user profile page, clicking on a “Delete Your Account” or “Delete All Your User Data” button and confirming the action.
B-A-04	The Application supports the creation of Administrator accounts and allows Administrators to login and logout of the Application.
B-A-05	Administrators can deactivate any Registered User.
B-B	Items
B-B-01	Registered Users can post Items and delete Items that they posted.
B-B-02	Registered Users can edit Items.
B-B-03	Administrators can delete any Item posted to the Application.
B-B-04	When Items are created, the following attributes are created for each Item: <ol style="list-style-type: none"> 1. Title 2. Description 3. Price 4. Item Creation Time (when the Item was posted to the Application)
B-B-05	Items are assigned an expiration date. An expired Item should only be visible to the Registered User who created the Item and Administrators.
B-B-06	All items should be associated with a Registered User.
B-B-07	Registered and Non-Registered Users can view Item details by clicking on links shown in search results (see B-C) and where Items are listed (for example, if the optional Virtual Shops are implemented, by clicking on displayed Items). Item details will include: <ol style="list-style-type: none"> 1. Title 2. Description 3. Price 4. Item Creation Time 5. Seller Name 6. A button to communicate / message the Seller as described in B-D
B-C	Search
B-C-01	<p>The Application allows Registered and Non-Registered Users to search for Items based on any of the following Item fields:</p> <ol style="list-style-type: none"> 1. Title 2. Description 3. Price <p>This will be a basic search functionality based on a single keyword or a single, exact string (exact match only). That is, the search does not need to support the ability to parse multiple keywords or derivations of keywords. For example, a search for the term ‘math tutor’ will ONLY match on ‘math tutor’ and NOT ‘math’ by itself, ‘tutor’ by itself, variations like ‘math tutors’ or ‘tutoring math’, etc.</p>

	The ability to parse multiple keywords and derivations of keywords is covered in the optional requirement O-C-01.
B-C-02	Search results will display the Title, Description, and Price for each Item found.
B-D	Buyer / Seller Communication
B-D-01	<p>Buyers use the Application to communicate with Sellers in order to negotiate final price, terms, and means for payment. The Application does NOT provide any payment transaction services. The Application will provide a web-based user interface for communication. Teams can be creative in how Buyers and Sellers communicate through the Application's web interface (web-based email, instant messaging, etc.), and teams will be awarded bonus points for good execution or creative implementations.</p> <p>The Application should not require users to sign up for external accounts or disclose information on external accounts. That is, teams should not rely on existing communication services like Gmail, Google+, existing instant messaging services or the like when developing the communication system. The one exception allowed for using existing external communication and social media is the use of voting on Items or Sellers via the Google+ +1 button or similar (see optional requirement O-D-02).</p>
B-D-02	Only Registered Users can use the Application's communication system.
B-D-03	<p>At a minimum, each communication should include and display to communicating parties:</p> <ol style="list-style-type: none"> 1. Sender information (Registered User ID) 2. Recipient information (Registered User ID) 3. Date and time the message was sent 4. Content / body of the message 5. If the communication is related to an Item, the Item title and the price of the Item at the time that the Buyer initiated the communication should also be displayed to both parties.
B-D-04	Message recipients can respond / reply to communications.
B-D-05	A message can be sent to multiple Registered Users.
B-D-06	<p>Messaging should be secured with the following features:</p> <ul style="list-style-type: none"> • Encrypted communication protocols are used (i.e., SSL) • Message content and information about the message sender and recipient are not leaked to people who are not recipients of the message. • Personal information is not disclosed by the messaging system (for example, unless the sender decides to send their name and address, this information will not be included by the Application). Only message recipients and the sender can see the sender's and other recipients' Registered User IDs.
B-E	Security & Privacy
B-E-01	The Application will be secured from common web security vulnerabilities such as Cross-Site Scripting (XSS), Cross-Site Request Forgery (CSRF), SQL Injection (if applicable), and application security logic flaws (for example, authentication bypass).
B-E-02	<p>The Application will generate a log of events that can be used to investigate potential security breaches. The log should contain:</p> <ol style="list-style-type: none"> 1. Changes to Items 2. Changes to account settings for Registered Users and Administrators 3. Changes to application settings (actions that can be performed by Administrators) 4. Changes to Virtual Shops (optional; if implemented) 5. Logs of user communication messages which includes only the following: <ol style="list-style-type: none"> a. Sender user ID b. Recipient user ID c. Date / time stamp d. Item Title (if applicable)