TLEN 5839 Final Project
CU-Second Hand e-Commerce

1. Scope Description:

Students of any age/university/background have always been known to have to limited budget to make their living on campus. Along with the high tuition fees, there is also a lot of other expenses like books, food, etc., to be handled in student life. This application allows students to buy/sell the commodities that they do not require to sell/ they require to buy second hand from other fellow students. Users of this application are required to create a profile to sell/buy stuff. Anyone can browse through the available catalog though. Payment method/transaction is not a part of this application as it removes the factor of being social. Buyer may contact the seller, if interested, and they need to arrange a meeting to make the transaction successful. The buyer may provide ratings and reviews to the seller, which in turn ensures the reliability of the seller.

The application is developed in PHP and security is ensured by use of sessions, HTTPS, encryption and protection against SQLi. The MySql database is used to store users/products information. UI is customer friendly and easy to use/browse.

2. Deliverable Functions:

Browse Catalog:

1. Anyone can browse through the available catalog even without requiring login.
2. Users who need details on the seller's info for any particular item will have to login first.

Users create account:

1. Enter Name(required).
2. Enter email ID (colorado email id) as username(required).
3. Enter a password(required).
4. Enter contact number(optional).

Users Login:

1. Enter colorado email ID as username.
2. Enter valid password and login.
3. Browse through the catalog or search for any item based on categories.

View Seller's Info:

1. Any user who is already logged into the system will have the privilege to view the details of the seller for any item present in the catalog.
2. They can also view the rating and reviews given to the seller by other users.

Add Rating/Reviews:

1. A logged in user has the permission to add rating to other sellers by clicking on the "View Seller's Info" button.
2. Users can only rate and review other sellers(not themselves).

Update User's Profile:

1. User can click on the "Update Profile" button on the right side of the header to update user's name, password and/or contact number.
2. User can not update null values for User name and password.
3. User will have to click on the checkbox associated with the respective field to update it.

Add Items to Sell:

1. User can use the button "Add Item to Sell" on the right side of the header to add an item to the catalog.
2. Item details should be included, such as, Name, price, a photograph, and description.

Show Users List(Admin access):

1. Admin has the privilege to login and view the total number of users registered on the website.

Failed Login Report(Admin access):

1. Admin can view the list of IP addresses and number of failed login attempts associated with that IP.
2. System does not allow a user to login if he/she has 10 or more number of failed login attempts in last 1 hour.

3. Project Constraints:

The users of this application are limited to CU boulder students/staff/faculty members only. It is so because the motivation behind this project was to not only buy/sell stuff but also to socialize in the process. The buyer and seller are required to meet in person to make the transaction successful.

Also the number of users and items in the catalog are limited due to the limited amount of memory in the dbserver. It is subject to increase based on the requirement accordingly.

Requirement: Authentication for a subset of features-
1. Admin is a special user of the application. Only Admin has the right to view list of registered users and failed login attempts on the system (Admin email: admin@colorado.edu and password: ralphie).
2. A user of the application can not give rating/reviews to himself/herself but only to other users.
3. A user is only allowed to view seller's info if he/she is logged into the application.