COSC 360
Project Proposal
Project Topic: 4 - CamelCamelCamel Clone

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Due: January 21st 11:59PM - 5% of Project Grade

1. Team Members
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2. Description of the project

    We plan to create a clone of the Camelcamelcamel website named Dromedarydromedarydromedary which will include the basic functions of Camelcamelcamel such as the ones listed in the Requirements list.

3. Requirements list
    a. Front End
        i. Clean and simple user interface - Consistent navigation links that will be accessible from all pages
        ii. User registration forms
            1. Name
            2. Email
            3. Profile photo
        iii. Item tracker - Users can select multiple items and add them to a list of which they can track prices
        iv. Price history - Possible a red-yellow-green graph to show the price history and a good time to buy. Interactive charts or graph
        v. Simple discussion forum
        vi. Real-time price updates
        vii. User error handling
        viii. Search bar - Users can search for specific items
        ix. Search filtering - Users can search for various criteria such as by date or by price
        x. Trending items - Items that are selling lots will have their tab that users can navigate to
        xi. Ensure accessibility features

    b. Back-end
        i. Server-side scripting - ensure the site can handle user interactions and any data processing necessary
        ii. DBMS - Database to store user profiles, item information, discussions, price data, etc.

      iii.   User authentication for secure login

      iv.   Data security - Password and sensitive information encryption

      v.   User state management - Tracks if a user is logged in or not and can maintain user information

      vi.   Admin tools - Ensure admins have the proper tools at their disposal including enabling/disabling users and a search function allowing admins to find users and posts efficiently

      vii.   API integration - APIs for price data and item information

4. Technologies
   a. CSS and Bootstrap for styling
   b. HTML for website structure
   c. JavaScript for form validation and async updating
   d. PHP for server scripting
   e. MySQL for data storage
   f. AJAX for async updates