NATURE IN A POCKET ONLINE DRUGSTORE

Project Proposal

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SYSTEM REQUIREMENTS SPECIFICATION REVISIONS

Revision Version	Date	Description
1.0	October 1, 2018	Original version - added overview and requirements

EXECUTIVE SUMMARY

Objective

For our Software Engineering project, we designed a secure online drugstore website where the end user can buy medicine. The program will be used by a few admin users and many end users that will access the system simultaneously. The system will have a website and will include a separate console for administrators.

Problem

There are a lot of people that are unable to make their way to the pharmacy due to various reasons (immobility, old age, difficult circumstances, etc). In Canada, healthcare is considered a human right, and there should be no reason for anybody not to be able to receive potentially life-saving medication.

Solution

Our project will help people, who are unable to get their medication on their own, to buy it online and get it delivered to their door.

SYSTEM REQUIREMENTS

General Functional Requirements

- Buyers can place the orders
- Admins can modify the items / item description
- Shopping cart system
- Calculating estimated delivery time
- Update display when items are out of stock
- Check for valid user inputs
- User is able to login and sign up
- Medication recommendations

Functional Requirements For Administrators

Administrators are the only type of users that are able to add / remove / modify the items being sold on the website. They will be able to do so through the admin console.

- Access the website
- Login to the Admin Console
- Add new products
- Remove products
- Edit products and their description
- Create another admin accounts

Functional Requirements For End Users (Buyers)

- Access the website
- Login / Sign up
- Navigate through the category menu
- The system will take the user to the new page of selected category
- Click on an item for preview
- Add item to the cart
- Return to the catalog (prev. page)
- Add more than one item to the cart
- Edit / Empty the cart (change quantity of the items, remove an item, etc)
- Checkout
- Enter 16-digit credit card number (digits only)
- Enter information such as name, address, email address, and phone number
- The system will provide the user with the estimated delivery time
- If the user chooses to sign up, then entered information will be saved in the database
- The user will be able to login next time they visit the website
- After successful checkout, the user will receive a confirmation email with a copy of their order
- The user is able to login / sign up without placing an order
- Not able to add or remove or modify in any way the items that are being sold on the website

Quality Requirements

Note: This is not an exhaustive list of quality requirements we considered in our system. The following nine (9) requirements reflect our biggest concerns in the quality of this project.

- Security:
  - After shopping cart is created, only the buyer that created it can access and edit it
  - Credit cart information will be encrypted and secured
  - User's password will be encrypted and secured

- Correctness:
  - Confirmation emails will be sent to the accounts
  - Delivery emails will be sent to the accounts
  - Remember user's information (username, items in the cart)

- Robustness:
  - Validate user's data before the submission
  - Item that is added to the cart will remain there until the buyer completes the transaction or removes that item from the shopping cart
  - Page consistency among different browsers
  - Link redirection will generate a resulting page

- Performance:
  - The system will fully load a page in less than 4 seconds
  - The system will retrieve information from the database in less than 1 second
  - When there are a lot of user suing the website at the same time, it will retrieve information in less than 2 seconds

- Friendly GUI:
    - The GUI will be aesthetically pleasing
    - Consistency in colour scheme and theme throughout all website pages
    - Easy navigation through the menu

- Scalability:
    - System will handle a large amount of users at the same time

- Portability:
    - User is able to access the website on different browsers / devices / OS
    - Different browsers will correctly display the website layout

- Reliability:
    - System is very simple and reliable
    - Chances of unpredicted outcomes are very low and may only come from the database

- Re-usability:
    - Website can be easily modified to sell other products (clothes, computer parts, etc)