NEWSPAPER SUBSCRIPTION SYSTEM

Nation publications limited prints and publishes newspapers namely "THE NATION, WEEKEND NATION and NATION ON SUNDAY". It sales the newspapers directly to customers through vendors, kiosks and shops. It also sales the newspapers on subscription basis. The price of each copy is K1,000.

A person/company can subscribe for one publication, two publications or all the three publications for any number of months. Currently the subscription process is done manually and all the customer records are kept manually at NPL offices. Some of the challenges currently being encountered are that sometimes customer records go missing and finding the same is very difficult due to unorderly storage of the files. Reconciliation is a problem and production of reports takes a lot of time.

Below is the current manual subscription process: -

1. A customer requests for subscription of newspaper from any location in Malawi through email, phone call, or come in person to NPL offices

2. A Sales representative calculates manually the subscription rate as requested by the customer and issues a manual receipt.

3. Supply commences the next day the subscription is paid

4. The subscription days are manually reduced by the Sales representative using an excel sheet.

5. Supply of the newspapers is stopped once the subscription expires.

6. A customer may renew the subscription to continue with the supply by following steps 1 and 2 above

NPL want to automate the subscription process. It is therefore requesting you to develop a web based system for the subscription process, taking into consideration the following: -

1. A system to register subscribers and each person/company should be uniquely be identified by the system

2. It should capture other details like name, location, phone number and emails address and the subscription period

3. A person/company should be able to subscribe for 1 month, 3 months, 6 months or 12 months for 1 or all the publications.

4. The system should also be flexible to allow subscription of I.e. 10 copies any production

5. The system should be able to generate receipts to customers

6. The system should automatically stop supply once the subscription time expires.

7. Include a search feature to look for specific customer using customer ID or Name.

8. The system should be able to generate reports i.e. list of active subscribers, a list of expired subscribers

9. The system should be able to produce a list of customers within a specific region i.e. Southern, Eastern, Central or Northern.

10. Produce any other reports deemed relevant.

You will be required to produce a brief report on all assumptions you have made in developing the system i.e. how the system will operate and future modifications. Included are some of the images that might help you in designing the user interface.

LANGUAGES

Any of the following languages can be used;

1. Java

2. C#

3. VB.NET

5. PHP

The front end can use HTML, CSS, JS and other frameworks to aid in the GUI design and responsiveness.

ASSESSMENT

Assessment will focus on

1. User friendliness

2. Implemented validations

3. Code brevity

4. Documentation / Screenshots with details on how the solution can be deployed.

DURATION OF ASSIGNMENT

The assignment must be submitted by Tuesday 2 August, 2022 @ 17:00 hrs

SUBMISSION

1. You will be required to host the completed source code on GitHub.

2. The documentation and link to the GitHub repository should be sent to vacancy@mwnation.com by 2nd August 2022. Late submissions will not be accepted.