THE FEEDBACK AND PERFORMANCE EVALUATION SYSTEM

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Abstract:

This explores how current available tools address problems with noise in web user profile. We establish that current research works eliminate noise from web data mainly based on the structure and layout of web pages i.e. they consider noise as any data that does not form part of the main web page. However, not all data that form part of main web page is of a user interest and not every data considered noise is actually noise to a given user. The ability to determine what is noise and useful to a dynamic web user profile has not been fully addressed by current research works. We aim to justify a claim that it is important to learn noise prior to elimination, to not only decrease levels of noise but also reduce loss of useful information. This is because if noise in web data is not clearly defined and analysed through learning, the purpose and its use will be compromised hence its overall quality.

Keywords:

Feedback System, Campaign, Stats.

1. INTRODUCTION

Online feedback system is the web-based feedback collecting system from the users and provides valuable statistics of a campaign which is given by users. We have developed feedback system to provide feedback in a quick and easy manner. So, we call it as Feedback System which delivers via the user interface as online system which acting as a Service provider. User can create custom feedback campaigns and send them directly to any number of email ids. The form will be directly visible on the email and user can directly submit the form from their email regardless of the email client. By using this technology, we can make fast feedback about the product or service by users on time. By using this technology, we can give feedback in an online system which is faster, secure and more reliable when compared to existing manual feedback system.

1.1 EXISTING SYSTEM

Coming to the existing system the feedback is done by manual process. In the existing system users can give feedback about the product or service by using paper and pen. This has many drawbacks such as printing feedback forms, manual distribution requires man power, maintain submitted forms without any damage, evaluating this hand written forms is a difficult process.

DISADVANTAGES :

- Lack of security of data.
- Time consuming.
- More man power.
- Consumes large volume of paperwork.
- Needs manual calculations.
- Expensive.
- Prone to loss of data.
- Storage
- Authenticity

1.2 PROPOSED SYSTEM

To overcome the disadvantages of the existing system, we go for a smarter system.The aim of proposed system is to develop a system of improved facilities. Here we aim to design online web applications for issuing the feedback about the product or service by users. The main objective is to digitize the manual feedback system. The proposed system can overcome all the limitations of existing system. This system provides proper security and reduces the manual work.

ADVANTAGES :

- Customized feedback forms.
- Real time statistics of campaigns.
- Minimal efforts required.
- Storage of collected data.
- Security of data.
- Greater efficiency.
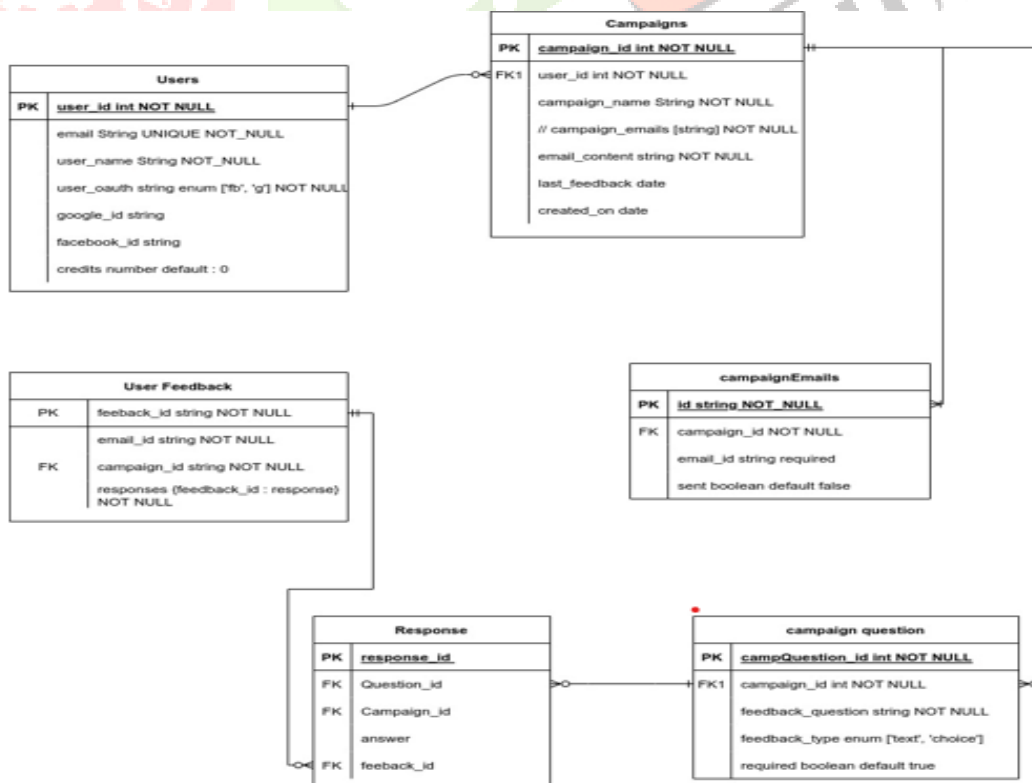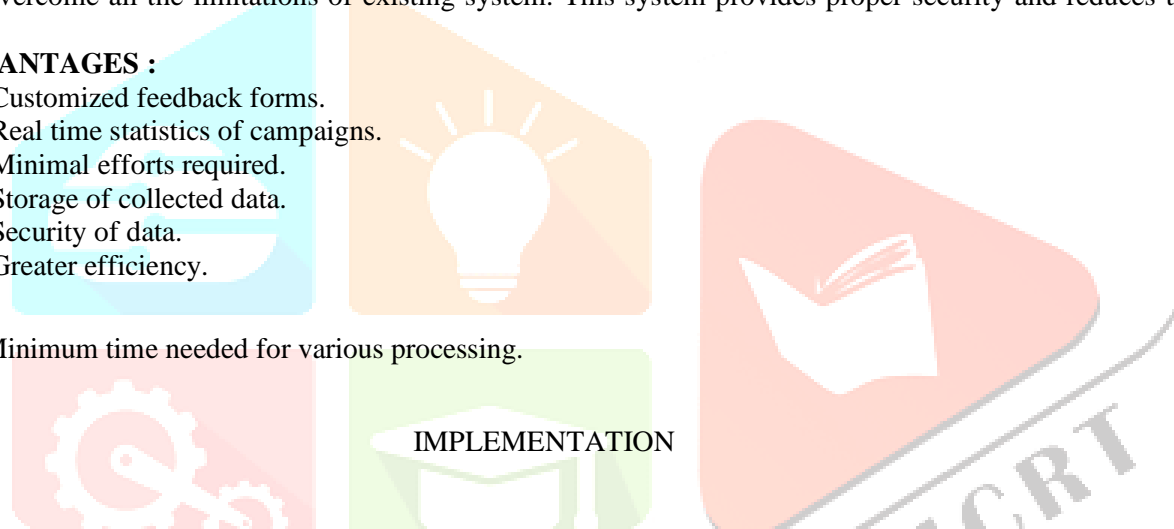
2. Minimum time needed for various processing.

3.

IMPLEMENTATION

Figure : Class Diagram

To implement Feedback System we need to set up a software environment first.We will use the following programming languages :

HTML5

CSS3

Javascript ES6

Code editor to be used is : Visual studio code.

Runtime environment : Node.js

Package Manager : NPM

Module Bundler :   Webpack

Operating system : Ubuntu 20.04

TECHNOLOGIES USED :

- **React :** React is a free and open-source front-end JavaScript library for building user interfaces based on UI components. It is maintained by Meta and a community of individual developers and companies. React can be used as a base in the development of single-page or mobile applications.
- **Node.js :** Node.js is an open-source, cross-platform, back-end JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser.A Node.js app runs in a single process, without creating a new thread for every request. Node.js provides a set of asynchronous I/O primitives in its standard library that prevent JavaScript code from blocking and generally, libraries in Node.js are written using non-blocking paradigms, making blocking behavior the exception rather than the norm.
- **MongoDB :** MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas. MongoDB is developed by MongoDB Inc. and licensed under the Server Side Public License.
- **HTML :** The HyperText Markup Language, or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets and scripting languages such as JavaScript.
- **CSS :** Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.
- **Javascript :** JavaScript, often abbreviated JS, is a programming language that is one of the core technologies of the World Wide Web, alongside HTML and CSS. Over 97% of websites use JavaScript on the client side for web page behavior, often incorporating third-party libraries.Javascript is used by programmers across the world to create dynamic and interactive web content like applications and browsers. JavaScript is so popular that it's the most used programming language in the world, used as a client-side programming language by 97.0% of all websites.
- **Passport.js :** Passport is authentication middleware for Node.js. Extremely flexible and modular, Passport can be unobtrusively dropped in to any Express-based web application. A comprehensive set of strategies support authentication using a username and password, Facebook, Twitter, and more.
- **Nodemailer :** Nodemailer is a module for Node. js applications to allow easy as cake email sending. The project got started back in 2010 when there was no sane option to send email messages, today it is the solution most Node. js users turn to by default. Nodemailer is licensed under MIT license.

Redux : Redux is an open-source JavaScript library for managing and centralizing application state. It is most commonly used with libraries such as React or Angular for building user interfaces. Similar to Facebook's Flux architecture, it was created by Dan Abramov and Andrew Clark.

This project includes extensive coding in programming languages like HTML5, CSS3,JavaScript ES6.
It includes latest HTML5 features like :

- section
- nav
- header
- footer.

CSS3 latest-features like :

- Box-shadow
- Attribute selectors
- Pseudo-classes
- Drop shadows

- Linear Gradients
- Radial Gradients.

Advanced JavaScript features like :

- Arrow functions
- Object literals
- Destructing
- Template literals
- Block-scoped constructs
- Promises

Overall the projects is built on cutting-edge features from html, css & javascript.

Software design pattern :

Model–View–Controller (usually known as MVC) is a software design pattern commonly used for developing user interfaces that divides the related program logic into three interconnected elements.

Model

The central component of the pattern. It is the application's dynamic data structure, independent of the user interface. It directly manages the data, logic and rules of the application.

View

Any representation of information such as a chart, diagram or table. Multiple views ofthe same information are possible, such as a bar chart for management and a tabular view for accountants.

Controller

Accepts input and converts it to commands for the model or view.

In addition to dividing the application into these components, the model–view–controller design defines the interactions between them.

The model is responsible for managing the data of the application. It receives userinput from the controller.The view means presentation of the model in a particular format.The controller responds to the user input and performs interactions on the data model objects. The controller receives the input, optionally validates it and then passes theinput to the model.

As with other software patterns, MVC expresses the "core of the solution" to a problemwhile allowing it to be adapted for each system. Particular MVC designs can vary significantly from the traditional description here.

3.   CONCLUSION

The goal is to constantly incorporate feedback to achieve perennial improvement.A proposed framework for web-based feedback was designed and implemented successfully using web development tools. This framework has a positive impact on the management's progressing in terms of handling the feedback application. It can do processes while storing and retrieving useful information more efficiently than ordinary paper-based feedback. In addition to its accuracy, it is superior to the paper-based as it is free of errors and others. Besides, this idea's advantage is that the users might use a mobile phone to do the questionnaire rather than a PC, which has the advantages of achieving the social distance required to avoid any infected disease such as the pandemic Covid-19. In future work for simplicity, the proposed framework might be connected with the university website, to be logged in remotely via the Internet. As a result, the student can do the questionnaire via the Internet much more comfortable.

4.   FUTURE ENHANCEMENT

Further enhancements can be made in designing the screens. Some more forms can also be added so as to better retrieve the feedback details. Various other options can also be added for the better usability of project. In future work for simplicity, the proposed framework might be connected with the university website, to be logged in remotely via the Internet. As a result, the student can do the questionnaire via the Internet much more comfortable.

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