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Nashik Cha Online Dabbawala

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ABSTRACT

We are pleased to present "Nashik cha online Dabbawala System" project and take this opportunity to express our profound gratitude to all those people who helped us in completion of this project.

We thank our college for providing us with excellent facilities that helped us to complete and present this project. We would also like to thank the staff members and lab assistants for permitting us to use computers in the lab as and when required.

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Key word: Nashik DabbaWala , Online Tiffin , Home Cooked Food,Dabba Service

Introduction

This project provides a Web page application through which people of Nashik can order Dabba service online using the internet. The aim of doing this project is to have practical knowledge of Dabbawala's team and their actual performance in the supply and management of food delivery service.

Now a day's readymade food is easily available but homemade food and its taste is a different matter.

In our busy schedule fresh and homemade food preparation is difficult in early mornings. But it is made possible by. Dabbawala's carry homemade food and deliver the same before our lunch time. This web application allows Nashik Kars to directly order a dabba for their afternoon lunch online. This application is built to be beneficial to student knowledge as well as help Nashik dabbawala's.

This Application uses Asp.net as a front-end and SQL as the back-end.

If any one wants to subscribe for services of dabbawala then customer needs to contact the service provider of dabbawalas via a phone call or need to visit their office and avail the services. It incurs more time as well as information is been stored on paper which increases paper work and makes record maintenance tedious, rather than that their aren't available for some period of time when they are performing their function while in this period you cant avail the services provided by them which leads to nonavailability. Since, the records are been stored on paper which leads to in consistency and if any accident happens there is no backup available for them. The proposed system focuses on developing an application which will be available to the users with an ease and can perform the actions without any restrictions according to their needs.

Literature Review

The traditional dabbawala system, exemplified by Mumbai's dabbawalas, has been extensively studied for its operational excellence, organizational culture, and resilience. Key insights from the literature include:

Operational Efficiency and Lean Practices

Mumbai's dabbawalas have achieved remarkable efficiency without relying on advanced technology. Their system incorporates lean principles, just-in-time (JIT) techniques, and a unique coding system, resulting in a Six Sigma performance level. This efficiency has attracted global attention from business leaders and scholars.

Organizational Culture and Structure

The dabbawala network operates on a flat organizational structure, emphasizing teamwork, dedication, and a strong sense of community. Most dabbawalas are semi-literate yet manage complex logistics through mutual trust and well-defined processes. This culture fosters reliability and consistency in their services.

Impact of External Disruptions

The COVID-19 pandemic significantly disrupted the dabbawala supply chain, highlighting vulnerabilities in their traditional model. During lockdowns, many dabbawalas faced unemployment due to reduced demand as offices closed or shifted to remote work. This period underscored the need for adaptability in the face of unforeseen challenges.

Adaptation and Modernization Efforts

In response to challenges, including those posed by the pandemic, there have been discussions about integrating technology into the dabbawala system. Proposals include developing mobile applications to streamline operations and expand services, indicating a willingness to adapt while preserving core values.

Relevance to Nashik's Context

While Nashik does not have a traditional dabbawala system akin to Nashik's, the city's growing urban population and increasing demand for food delivery services present opportunities. Applying the dabbawala model in Mumbai could involve:

Community-Based Delivery Networks: Leveraging local communities to establish reliable and cost-effective delivery services.

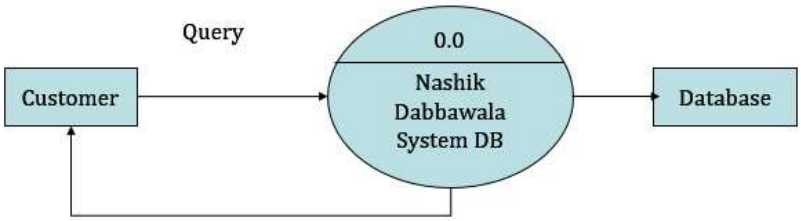
Integration of Technology: Utilizing mobile applications to coordinate deliveries, track orders, and manage logistics efficiently.

Emphasis on Organizational Culture: Fostering a culture of dedication, teamwork, and customer-centric service to ensure reliability and trust.

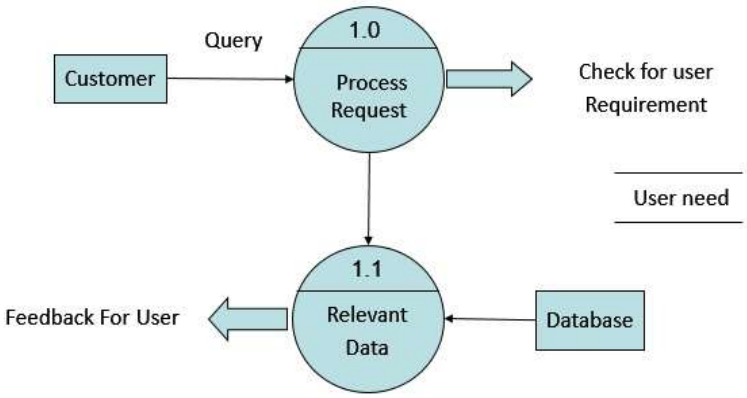
Discussion and Methodology

Figure 1. Data Flow Diagram

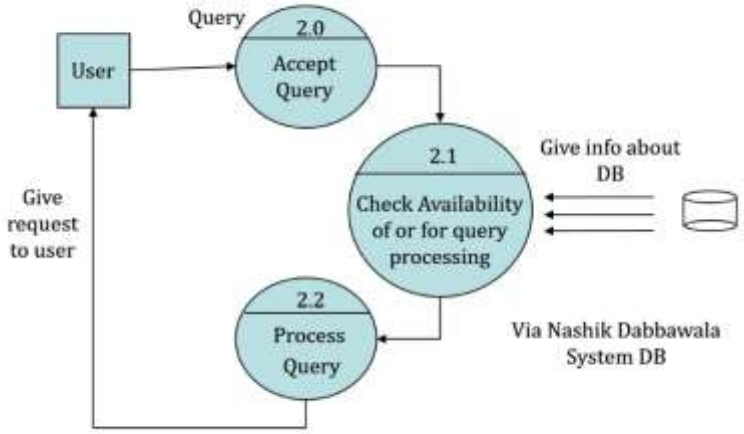
1.DFD – Level 0



2.DFD – Level 1

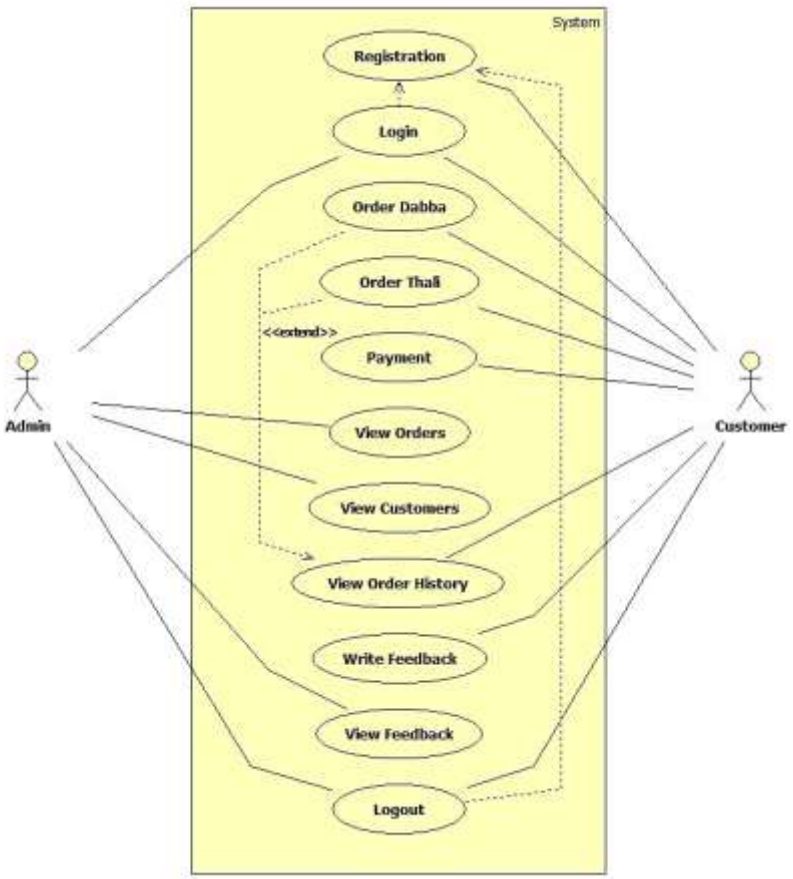


3.DFD – Level 2



A data flow diagram is graphical tool used to describe and analyze movement of data through a system. These are the central tool and the basis from which the other components are developed. The transformation of data from input to output, through processed, may be described logically and independently of physical components associated with the system. These are known as the logical data flow diagrams. The physical data flow diagrams show the actual implements and movement of data between people, departments and workstations. A full description of a system actually consists of a set of data flow diagrams. Using two familiar notations Yourdon, Gane and Sarson notation develops the data flow diagrams. Each component in a DFD is labeled with a descriptive name. Process is further identified with a number that will be used for identification purpose.

Figure 2 . Use Case Diagram



Conclusion

In this project main aim was only implementing the web services and wholesale owner functions. But for to show the real situation in this area we will try to also implement the Nashik Dabbawala part but to confess it is not easy task to accomplish in a short period. Nevertheless, what we gain from this project are:

Preparing the project scope.

Preparing requirement involving the scope.

Preparing a design document with the proper methods. (Use Cases, Class Diagrams, block diagrams and architecture)

Programming with a design document ready

Testing with Use cases

Because of the well designed, multi-tier components implemented in these applications, providing additional features is a fairly easy process. This is the goal of enterprise application design. We're also able to expand the application to any size without affecting other components which reduces code volume.

Acknowledgment

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We would like to thank all our friends for their smiles and friendship making the college life enjoyable and memorable and family members who always stood beside us and provided the utmost important moral support. Finally, we would like to thank everyone who has helped us directly or indirectly in our project.

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Microsoft Developer Network (MSDN): http://msdn2.microsoft.com/en-us/default.aspx: This is a valuable online resource, and is a must for any developer using Microsoft tools.

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