Book Your Slot

Submitted in partial fulfilment of the requirements of
the degree of

BACHELOR OF ENGINEERING

in

INFORMATION TECHNOLGY

(A.Y. 1920-2020)

By

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Zagdu Singh Charitable Trust's (Regd.)

THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY

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# 1st cycle of NAAC Accreditation	:	• "A" Grade for 5 years (w.e.f. 30-10-2017)

Certificate

This is to certify that Mr. Sanket Muchhala, Ms. Avisha Jain, Ms. Aastha Shah are bonafide students of Information Technology Department, Thakur College of Engineering and Technology, Mumbai. They have satisfactorily completed the requirements of PROJECT-I as prescribed by the University of Mumbai, while working on **"Book Your Slot".**

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Declaration

We declare that this written submission represents our ideas in our own words and where others ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my/our submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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Sanket Muchhala (Roll No:02)

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Date:

ACKNOWLEDGEMENT

We sincerely thank to our guide Mrs. Purvi Sankhe for his guidance and support for carrying out our project work.

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ABSTRACT

The current outbreak of the novel corona virus Covid-19 has been an uncalled pandemic upon the world. These pandemic has forced people into panic buying of groceries and basic necessities. In spite of so many precautions, the virus is spreading like fire in a dry forest .To be more careful, the supermarkets have introduced a token system where they provide time slots to the customers to avoid large gatherings of people at a particular time. But even though there is a large gathering of people just to collect their token. To suggest alternatives to the present queuing system and to develop a Website that would be a single handed solution to all the major problems discussed above. The website helps in maintaining social distancing, by enabling the customers to book a slot through the website. The website contains three main modulesUsers,Supermarket andAdmin.

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6.1 Conclusion

Chapter No. 1 Overview

Chapter No. 1
Overview

1.1 Introduction

In the current situation, Big retailers which are presently dispensing only essential items amid the lockdown, are taking precautionary measures like restricted entry and marked lines to maintain social distancing to avoid corona virus infection at their stores. Some stores such as Reliance Fresh, Dmart ,Walmart and Metro Cash & Carry are even screening body temperature of their customers before allowing them entry into the store D-Mart store, is handing out coloured coupons to its customers waiting outside in the open area and then allowing entry of a particular colour at a time as part of its crowd management plan. The idea of project is to practice social distancing. So, we have come up with the idea to create a website for the safety of the staff members of the supermarket. This system is currently not implemented. But can reduce the threat of the disease as the token will be generated virtually on their phone in the form of QR code. It saves time as the customer or the buyer does not need to stand in the long queue just to take a token. Also the system provides the customer to choose preferable time slot according to their conveniency.

1.2 Importance of the Project

This project performs the task of developing a web application that enables the user and admin to retrieve the data very easily. The main purpose of this project is to provide a platform for the users to book the appointment according to their requirement in the supermarket and avoid the rush scenarios in the COVID-19 Situation.

1.3 Perspective of stakeholders and customers

The Book Your Slot can be used by every citizen in the city for efficient booking of the slot . Everyone can use this application and make their appointment and visit the Supermarket at the booked slot . The main use of this application is to reduce the rush in Supermarket and help in maintaining social distancing.

1.4 Objectives and Scope of the project

Grocery stores are facing unprecedented challenges due to the pandemic. While they are busier than ever, they must also limit the number of customers in stores at one time, and they are facing widespread shortages of essential items. Grocery stores and supermarkets can use the new Website to limit the waiting times and reduce crowds waiting to enter the store. Each retailer can adapt the platform to allow different numbers of reservation slots.

Literature Survey
And
Proposed Work

Chapter No.2
Literature Survey & Proposed Work

2.1 Introduction

This chapter involves the literature survey and proposed work. For literature survey few existing systems were taken into consideration. The literature survey table will include the title, Developer, year of publication, key findings and research gaps. The points obtained in the research gap will turn out to be the problem definition. This problem definition will be phase wise. This chapter will also include the description of the methodology used.

2.2 Literature Survey Table

Ref no.	Project/Paper Name	Author, year	Methodology	Key findings	Gap identified
[1]	ONLINE SEMINAR HALL BOOKING SYSTEM	Gowtham ,Ranjith, Mr.Udhaya Moorthi,March 2020.	Consists of Signup, Login and update details of the seminar halls and users. User reserves an hall accordingly to their need, administrator provides an approval followed by head of the department and hall in charge followed by principal during every booking process.	Technologies like php, JavaScript ,MySQL is used and also of low cost and maintenance to reduces manual efforts of finding the halls . User can view the available dates of particular seminar hall and also the facilities in the hall like capacity, time slots.	It doesn't notify user if their booking is cancelled. As well as no algorithm is used for booking the slot or timing of the hall
[2]	ONLINE PARKING SLOT BOOKING	Chinmay Pawar1, Ajay Wavhal2, Akash Saigal3, Aniket Patil4, Prof.Randeep Kahlon5, Mar-2018	This application will help the user to find the parking space when he/she visits the new area or the state. A user new to any city or state can use this app to safely park the vehicle	The app ensures the safety of the identity of the user by addressing user by username. As the parking slots are under government registration there is no possibility of fake parking area or false slot information. The necessary document photocopy is required for the owner to be submitted while registering	GPS facility should be available in the phone so that location of the user can be traced and appropriate parking location can be prompted.
[3]	Online Appointment Management System	Alaa Qaffas, Trevor Barker	Sending an email when the student reserves or cancels an appointment Reservation, cancellation and confirmation were checked while testing. Students will be able to view the lecturer's availability for appointments and schedule accordingly. All processes are performed in real-time which cuts down drastically on mistakes and errors.	Online lecturer appointment system for students' projects, where all processes of appointments are verified.Most aspects of appointment management, such as reservations, confirmations and cancellations, are controlled automatically.If any student cancels an appointment more than five times, lecturers can prevent this student from making another appointment.	Each student chooses only one project and work on it with lecturer If he/she wants to work simultaneously on more project is not possible and once the student is blocked can never participate again .

2.3 Problem Definition

Every Organization, whether big or small, has challenges to overcome the challenge of managing the crowd in COVID-19 times . There is a lot of manual process involved in given the tokens manually. This is designed to assist in strategic planning and it will help to ensure that the organization is equipped with the right level of information.

Phase 1:

- **Planning:**
  Planning will involve a comprehensive suite of project plans which will set out a clear project roadmap ahead. Following Waterfall Model , project was broken down into modules. Each module was planned and project timeline was prepared accordingly. Resources required to develop the project will be identified i.e. requirement gathering will be done.

- **Analysis:**
  This phase will specifically address establishing a baseline and a way to track the requirements through the rest of the lifecycle. Software and Hardware dependencies of the project were analysed, Ethereum platform and truffle framework are major requirements for implementation of the Application.

- **Design &Implementation:**
  After gathering the requirements, the blueprint for the decentralized application will be designed. Smart Contract for blockchain is designed using Solidity. Functioning of the setup was tested using Ganache, thus a test blockchain is deployed on localhost.

Phase 2:

- **Coding:**
  This will include actual implementation i.e.User can prepare the list of requirement and book the slot and provide the feedback . Frontend will be designed using html, css and user can interact using the website.

- **Testing:**
  With respect to UI, initially the browser compatibility of the UI will be checked, also the correctness of the responsive web design will be tested. Test cases will be determined to test whether the data scraped is correct or not and the scarped data is correctly preprocessed or not. Various test cases will be determined in order to check the accuracy of the result and also limitations of the system. The result of these test cases will be used for further improvements in our system

- **Deployment:**
  Once the testing is done, the system is now ready for deployment. Deployment activities will include the release, activation, adaptation, updates, version tracking of the system etc. The system will be deployed for citizens of the city and based on feedback , updates to system can be made to widen the scope

2.4 Features of the project

The system is an unique online based project. This system is to ease the pain of the user/customers. The user/customer needs to first login to the website by registering in the website. User can register himself by the simple procedure of adding new username and password which is confidential. The user/customer can then book for slot in Super market .The user needs to just visit the store by the provided QR code through the website and lastly give the feedback for the improvement .As Bill Gates once said – "we all need people who will give us feedback. That's how we improve!" we have a feedback page where the user will give their reviews on our services. They can also give us suggestions to improve our service.

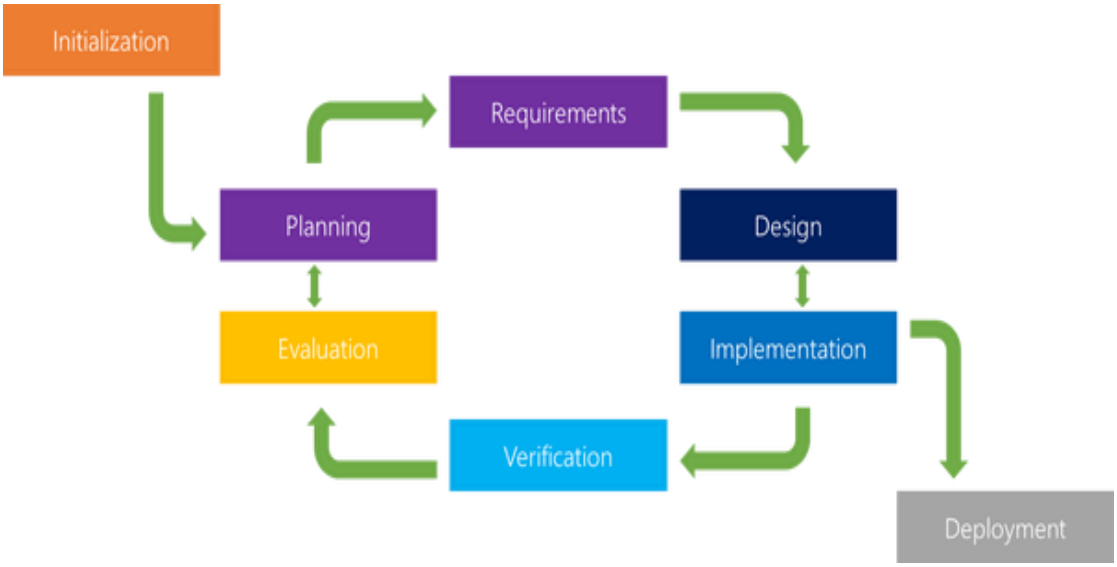
2.5 Methodology Used

For developing a project or software it is important to know the flow or which type of software development lifecycle model we are going to use. Out of various SDLC model we need to choose the model which will be perfect for our project and therefore we are using Iterative model.

As the name suggest Iterative model is basically an iterative process where the input is processed through various phases and if it doesn't satisfy it is repeated until it becomes satisfactory.

The model consists of five phases namely:

1. Planning.
2. Analysis and Design.
3. Implementation.
4. Testing.
5. Deployment.



2.6 Summary

With the help of literature survey, the research gaps were identified from the existing papers/system. The research gaps identified has led to the problem definition of our project.The problem definition was discussed in two phases. Phase 1 included planning, analysis, design and implementation where the project plan, requirement gathering, the layout of the system and the coding technique to be used was elaborated. Phase 2 included Coding , Testing and deployment where how the system will be tested using various cases and how the system will be deployed was discussed. The complete methodology used for our project was also discussed.

Analysis and Planning

Chapter No.3
Analysis and Planning

3.1 Introduction

This section familiarizes us with the complete scheduling of the project. It introduces the importance of scheduling in the lifecycle of any project. The scheduling is explained in detail in this section. Gantt chart has been created and the scheduling is being carried out. Analysis and planning is very much essential for the perfect and proper completion of the project.

3.2 Feasibility Study

Operational Feasibility:

Operational feasibility covers two aspects. One is technical performance and other is acceptance by users. The system is operationally feasible as it is very interactive and user friendly. It fulfills all the users requirements.

Economic Feasibility:

The tools that will be used for the system are latest one and thus the cost involved in tools, designing and developing the system will be a good investment for the organization. The benefits of using the system are not in monetary terms, but it increased interaction between Users & administrators. The modules designed can be easily navigated

Technical Feasibility:

Technical feasibility of a project determines whether a project can be developed using the technology on hand. The system is technically feasible as the front-end and the backend required for it is available and already

installed. System is developed by using ASP.net as a front end and MongoDb database Server as a back end. For connecting remote site with user's network, we have to implement the site in IIS. In this way system will allow application to communicate with users.

Behavioral feasibility:

People are inherently resistant to change and computer has been known tofacilitate changes. An estimate should be made of how strong the user islikely to move towards the development of computerized system. These are various levels of users in order to ensure proper authentication and authorization and security of sensitive data of the organization.

Social Feasibility:

This project can be helpful for improving the Examination system in our college . This project will be useful the students to have a quick glance to all the exam related notices

3.3 Project Planning

The entire flow of the project will be decided in this phase. The working of the project will be clear at the end of this phase.

Requirements:

Hardware

A computer

- PC with
  - I3 or above processor
  - 4GB RAM
  - Hard drive with atleast 10GB of ROM
  - Windows 7 or above 32 bit / 64 bit OS

A server

- PC with
  - I5 or above processor
  - 8GB RAM
  - Hard drive with atleast 100GB of ROM
  - Windows 7 or above 64 bit OS

Software

- Browser (Google Chrome recommended).
- MySql(Database)
- Visual studio(coding)

3.4 Scheduling(Gantt chart)

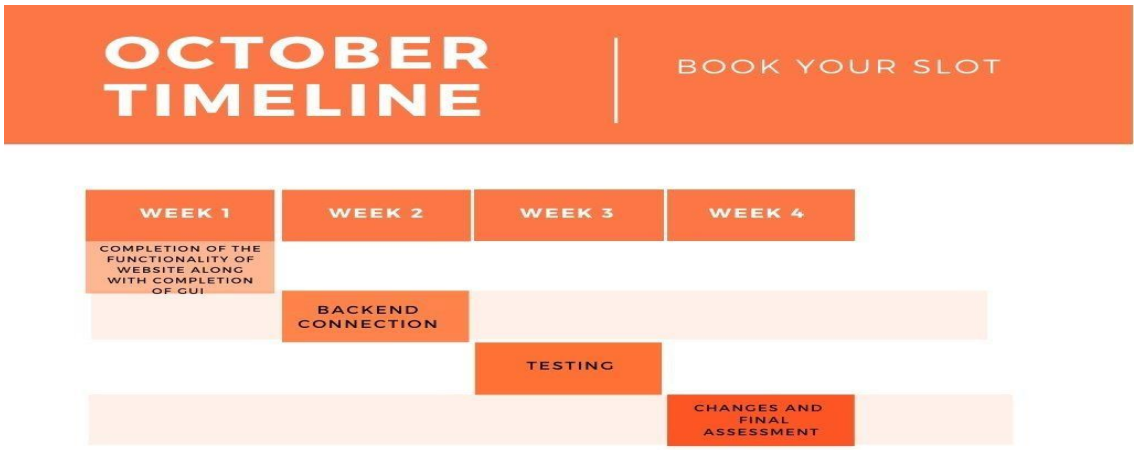


Figure 3.1:Gantt Chart

3.5 Summary

In this section, we have described how the planning and analysis of our project is carried out. Considering the feasibility study of the project, will help to analyze the specific requirements and give the summary of the project. Also, this section helps us to understand and derive a way to prepare the entire project, keeping in mind the various constraints like time, etc. After the planning process, scheduling is done so that the project gets completed on time. This section gives an overview of the actual implementation of the project.

Design and Implementation

Chapter No.4
Design and Implementation

4.1 Block Diagram

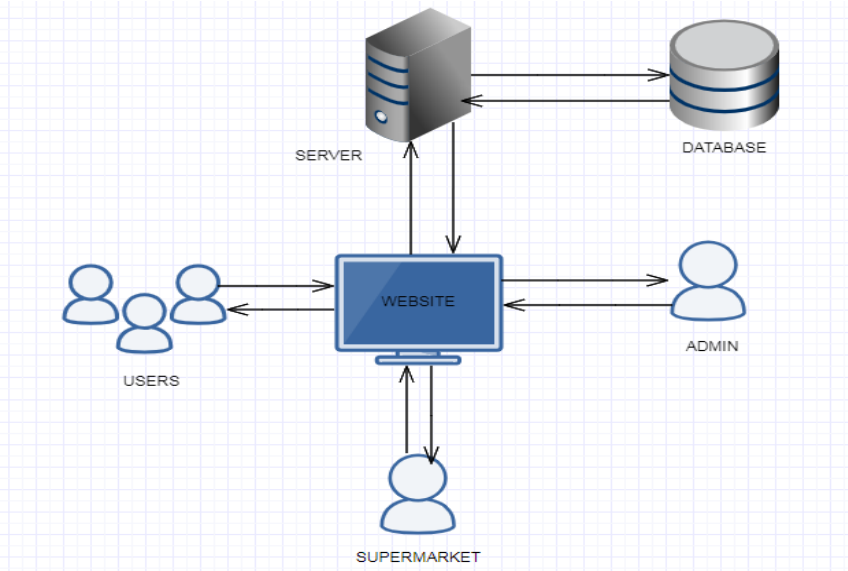


Figure 4.1: Block Diagram

Proposed System

Grocery stores are facing unprecedented challenges due to the pandemic. While they are busier than ever, they must also limit the number of customers in stores at one time, and they are facing widespread shortages of essential items. Grocery stores and supermarkets can use the new Website to limit the waiting times and reduce crowds waiting to enter the store. Each retailer can adapt the platform to allow different numbers of reservation slots. The proposed system is intended to overcome the major drawbacks of the currently existing manual system.

The features are as follows:

1) You can choose your preferable time slot to visit.
2) Date selection as per customer's choice.
3) Booking of tokens without visiting the place.
4) QR code is generated that contains the booking details for the safety of your bookings.
5) No need to keep waiting for your turn to go inside supermarket.

B. Modules of the Project

User Module:

1. User can login into the Website.
2. He/ She can book the token by inputting preferable date and time.
3. He/ She can also view his/ her token history and also the QR Code is downloadable so that no active internet connection is required all the time.
4. Also, he/ she can provide a review according to his/ her experience.
5. Also, a section has been provided for the user to make a list of the items he/ she needs to buy without wasting the time.
6. Also, the user can cancel his /her token.

Supermarket Module:

1. Supermarkets can login to the portal.
2. Supermarket can also view all the tokens for the day and cancel the token due to any reason.

Admin Module:

1. Admin can manage all the data.
2. Admin can add new supermarkets and their branches to the portal.

UML Diagram:

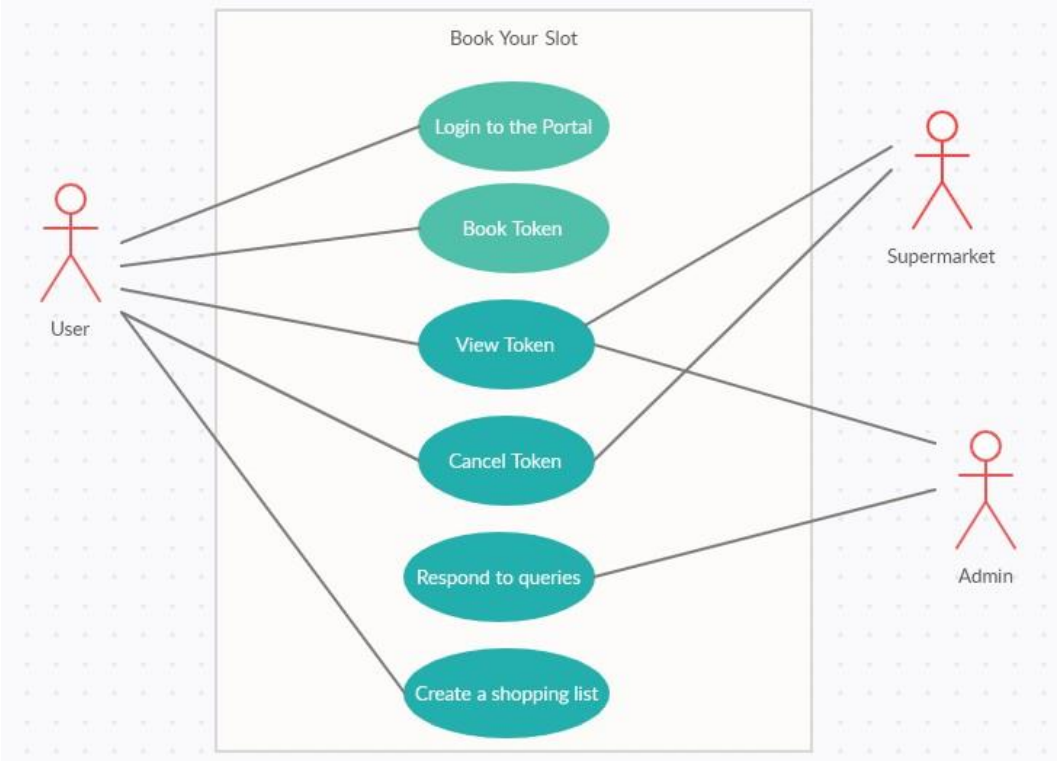


Figure 4.2: Use Case Diagram

4.4 GUI Screenshots

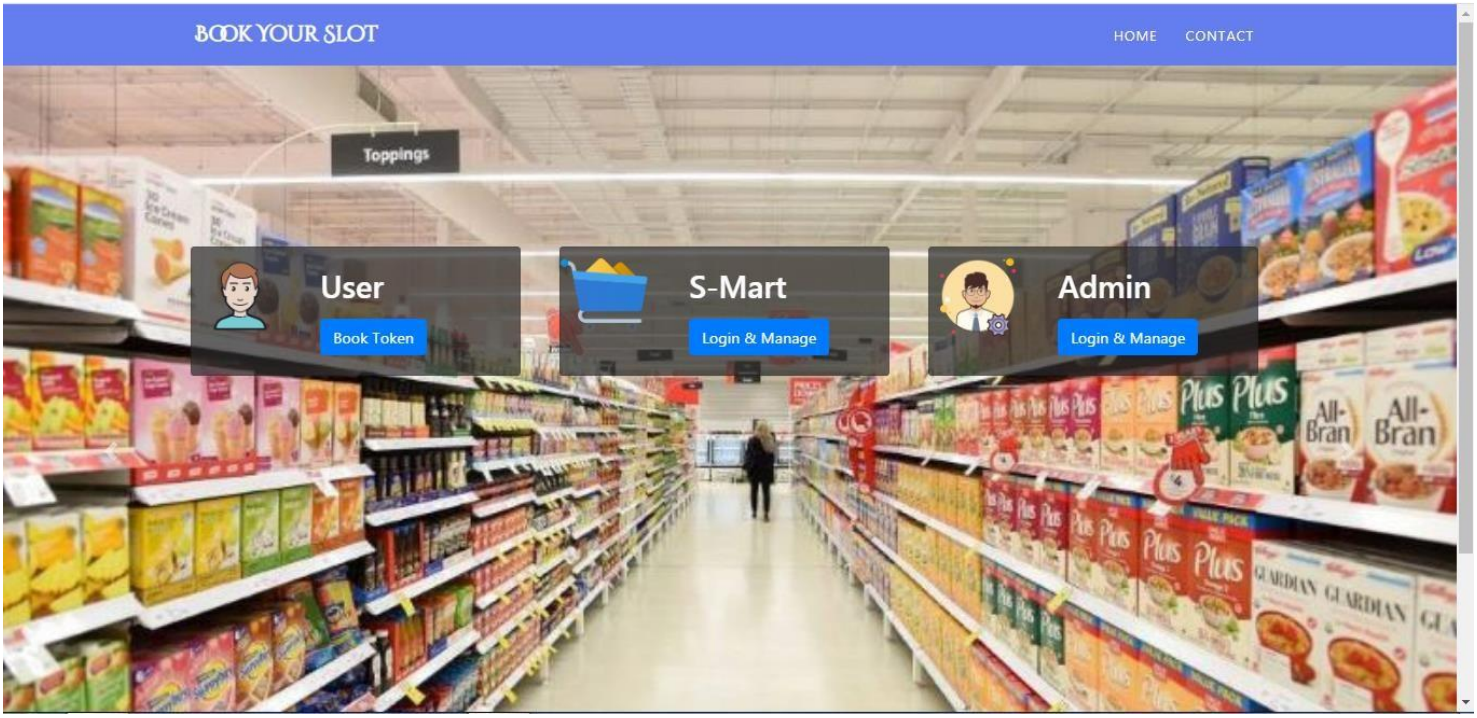


Figure 4.3: Home Page

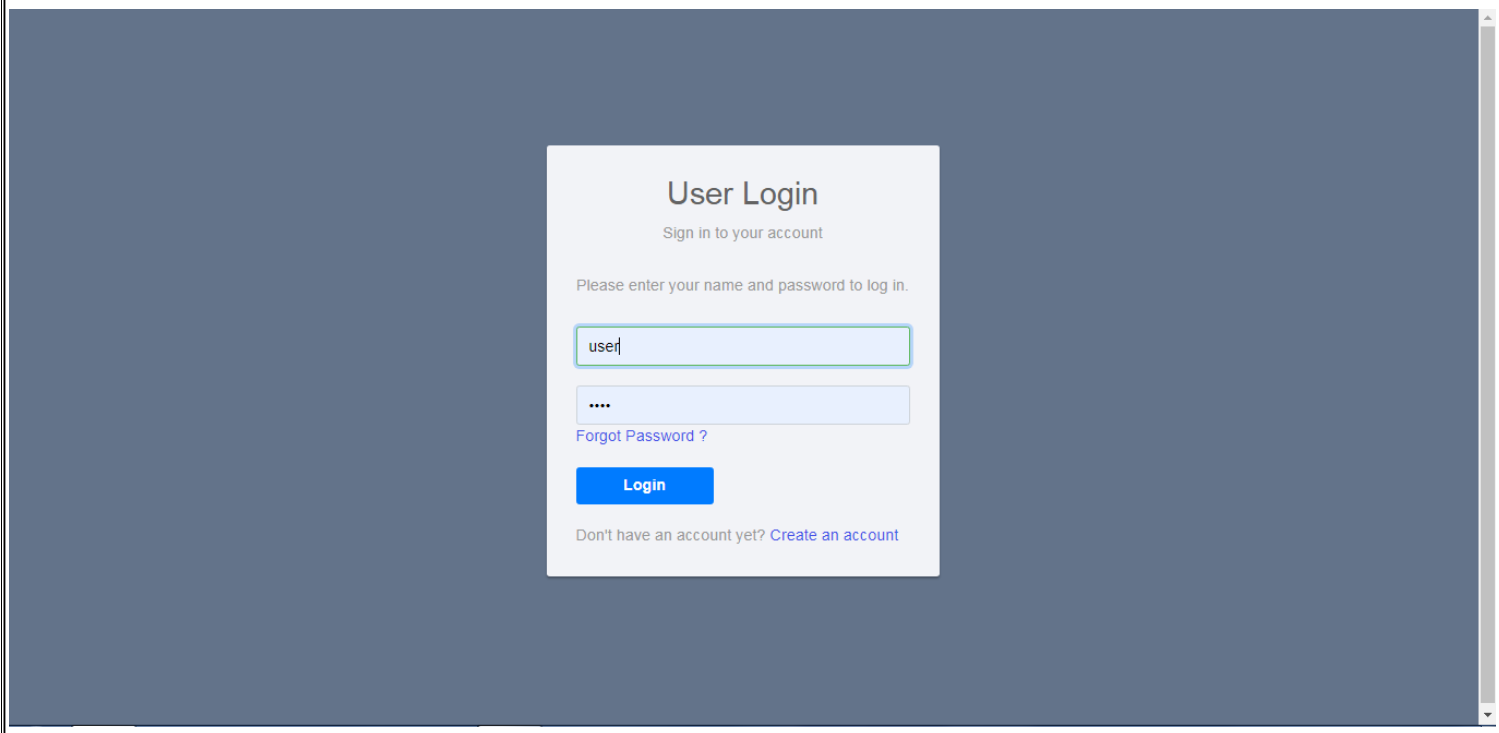


Figure 4.4: Login Page

Result & Discussion

Chapter 5
Results & Discussion

5.1 Actual Result

In this study, a user friendly and menu driven application software for the selected event management system has been designed and implemented using web development technologies. This study convinced that separation of concerns is one of the main requirements of good system design and implementation. Several benefits are attributed to software with well separated concerns. Thus, overall improvements in the quality and performance of the software system were realized. This study also helped us to evolve as a team. We learn how team building and team coordination affects the development of a project. It has been a great learning experience and team grooming exercise

5.2 Future Scope

As the technologies are emerging, it is possible to enhance the system and make it adaptable to desired environment i.e. customize as per the requirements. For security issues, a technology known as QR Code could be implemented. Using which, the results, databases could be digitalized saving a lot of space and providing faster access.

As per the requirements of the user, further changes could be implemented in the system making it more reliable, more efficient and convenient for everybody to use it.

Screenshots:

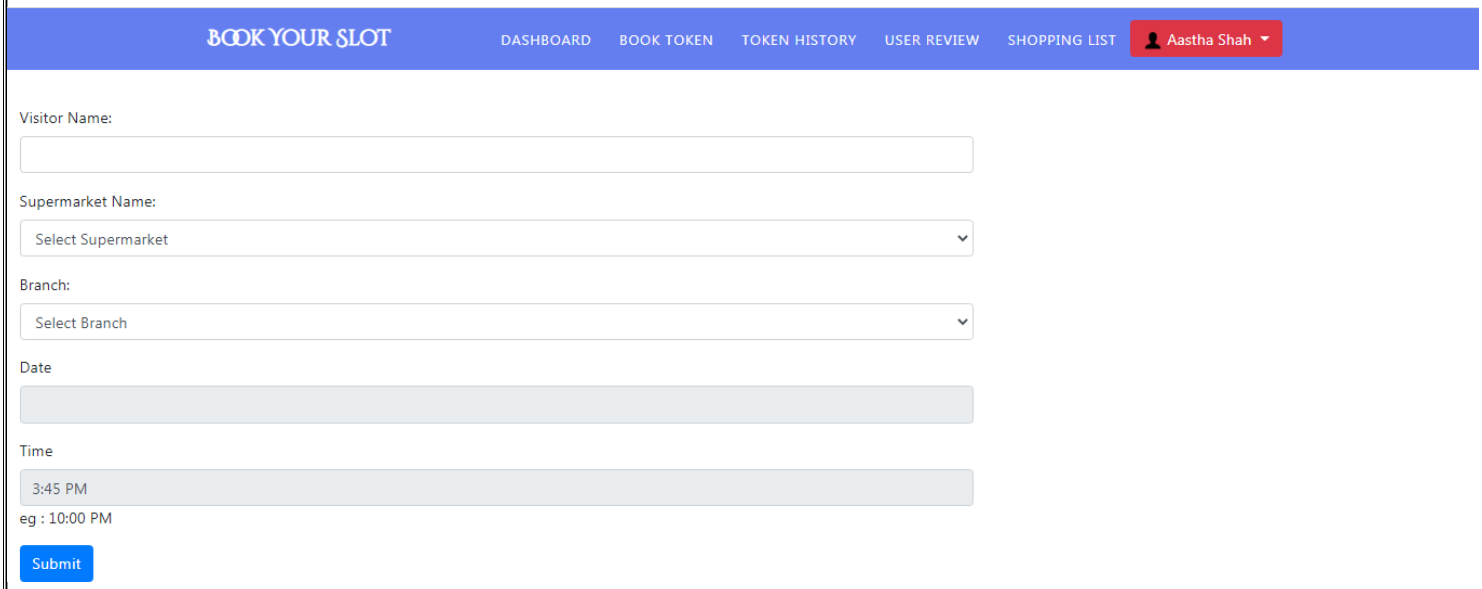


Figure 5.1: Book Token Page

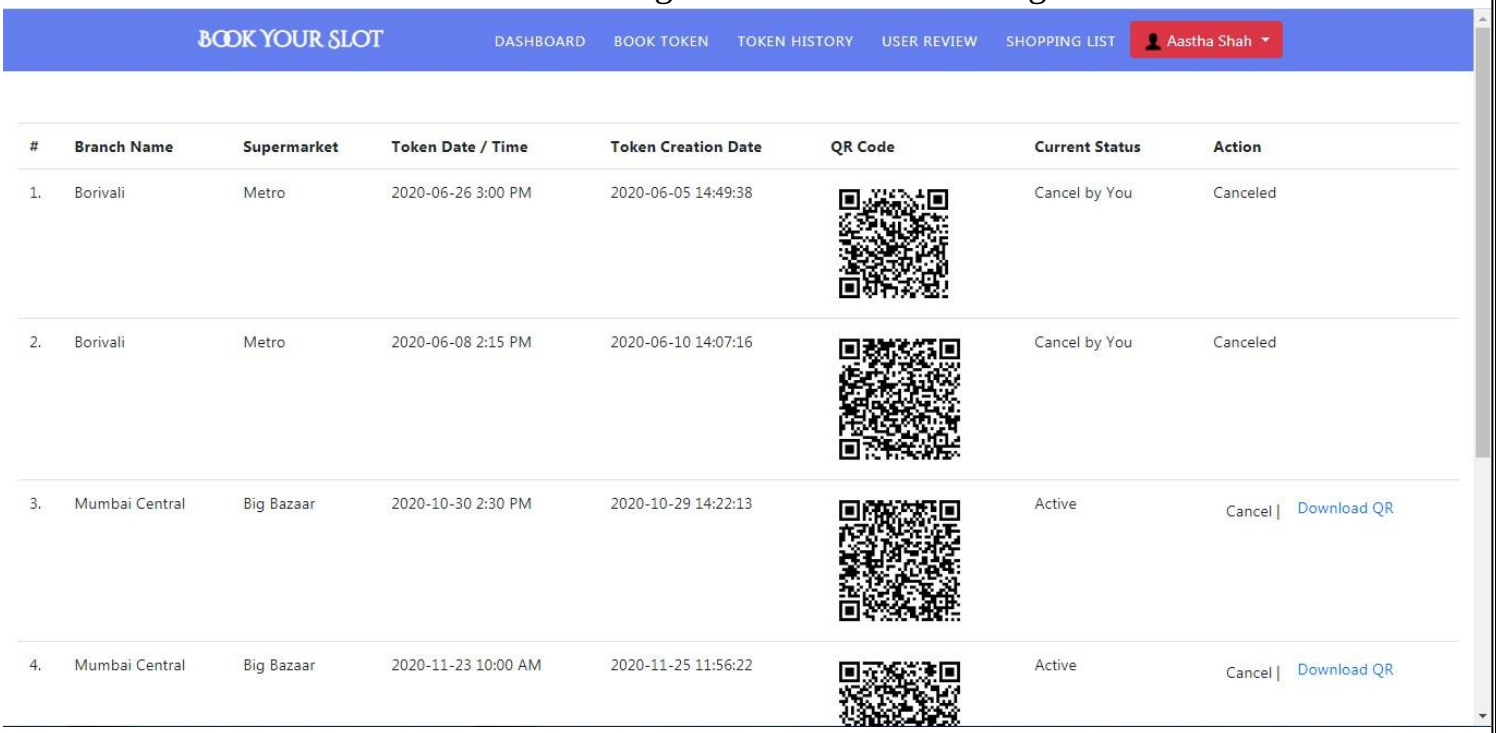


Figure 5.2: Token History Page

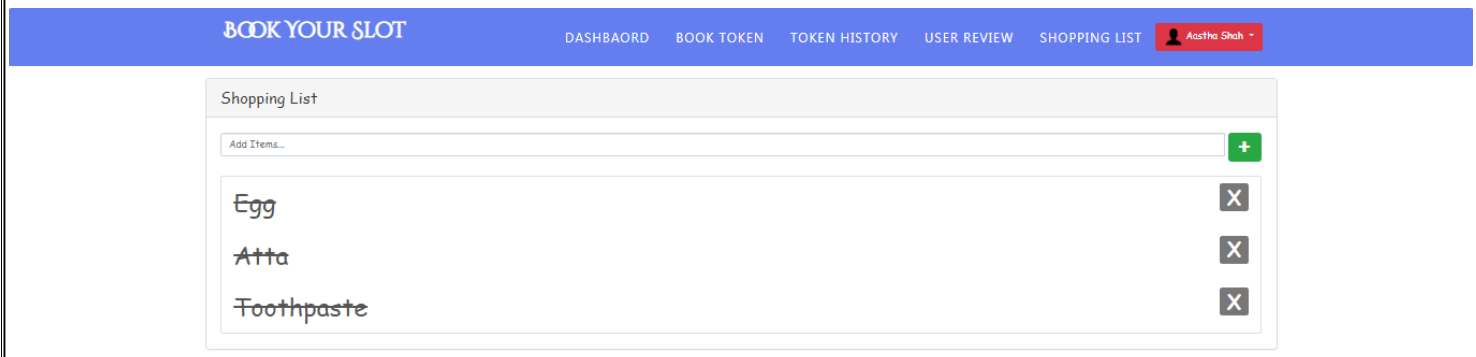


Figure 5.3: Shopping List Page

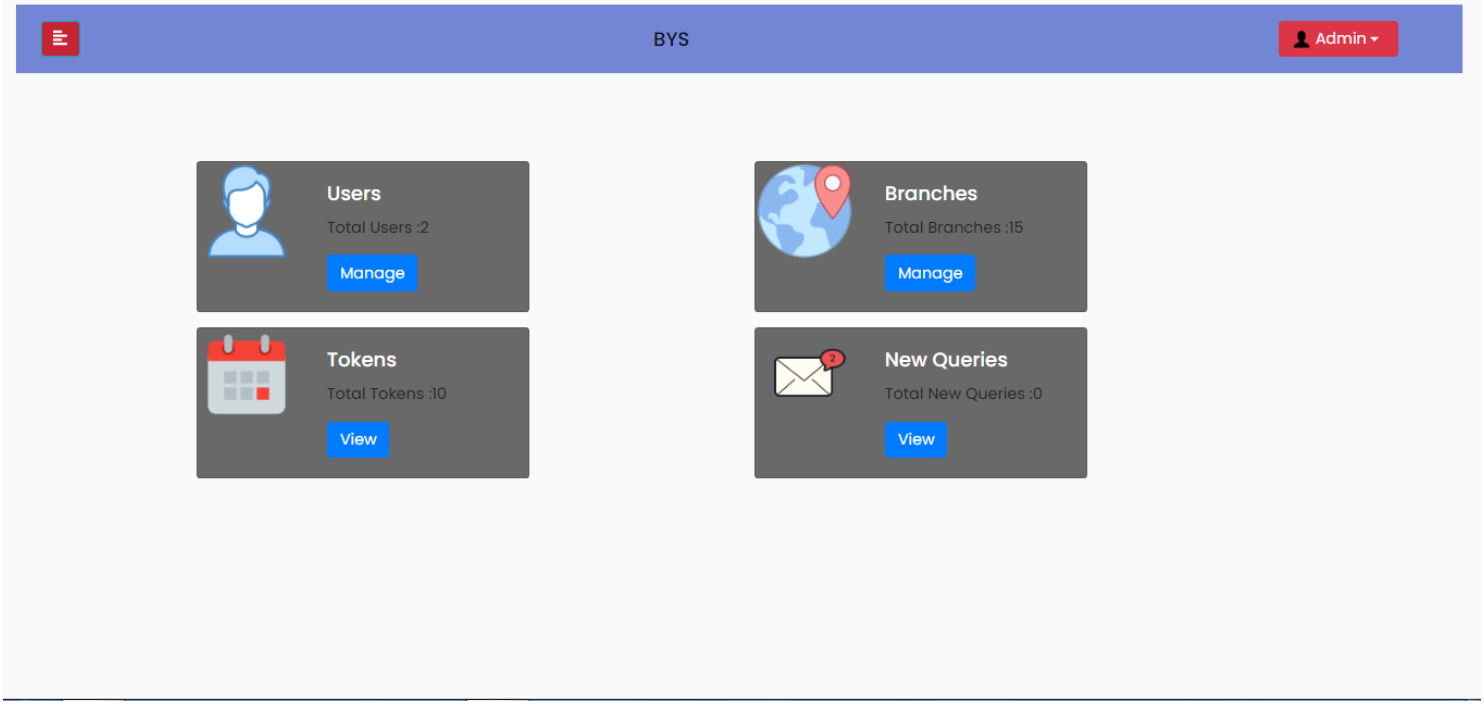


Figure 5.4: Admin Panel

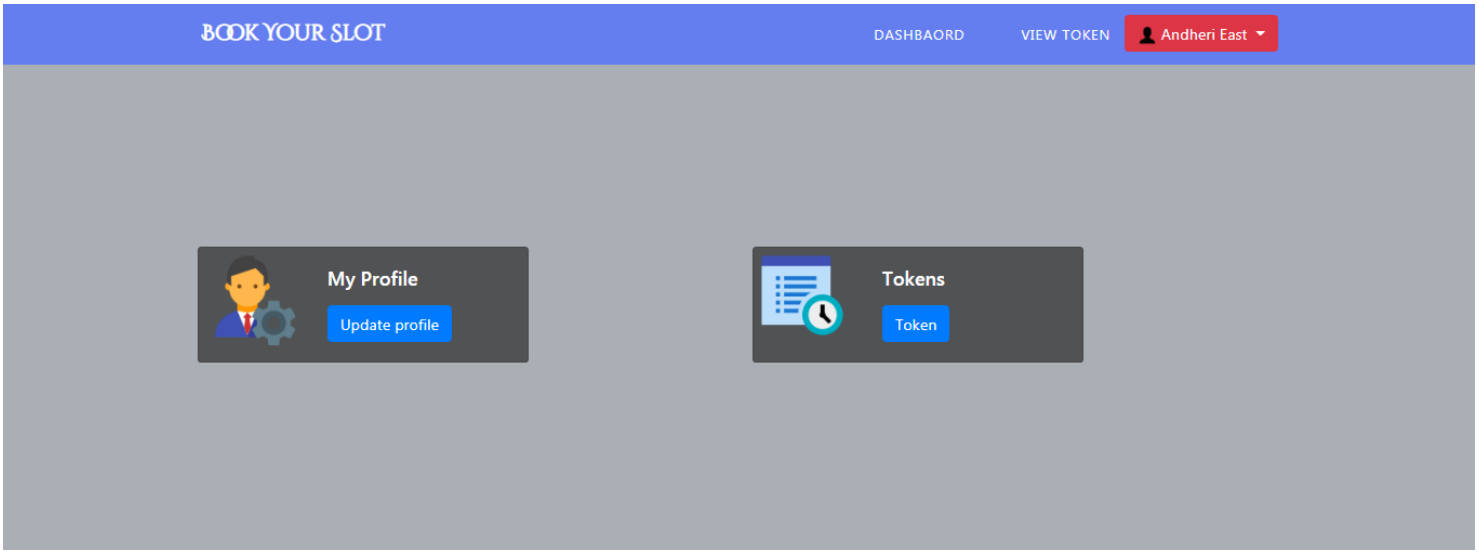
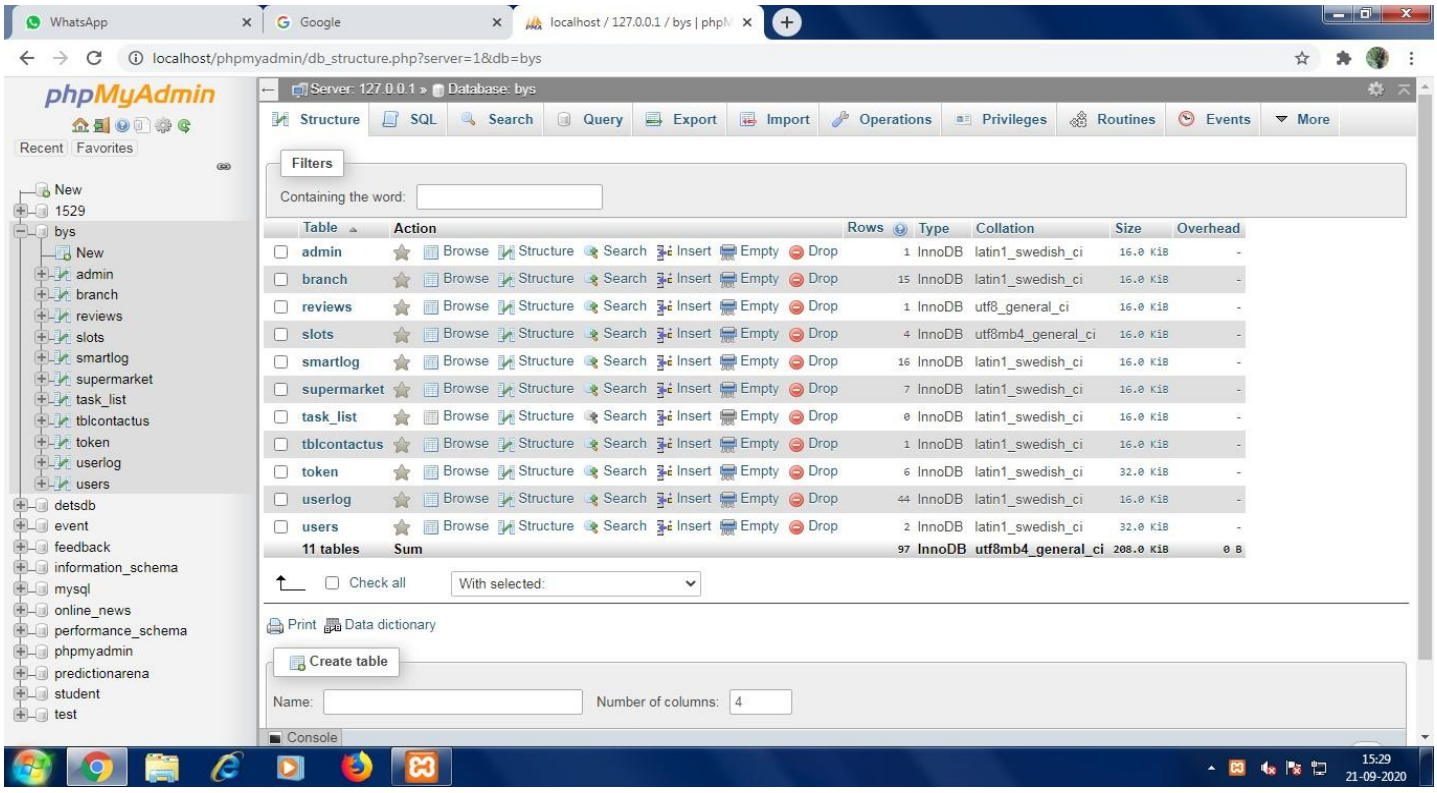


Figure 5.5: Supermarket Dashboard

4.5 Database Screenshot

Total no of Tables in the project= 11



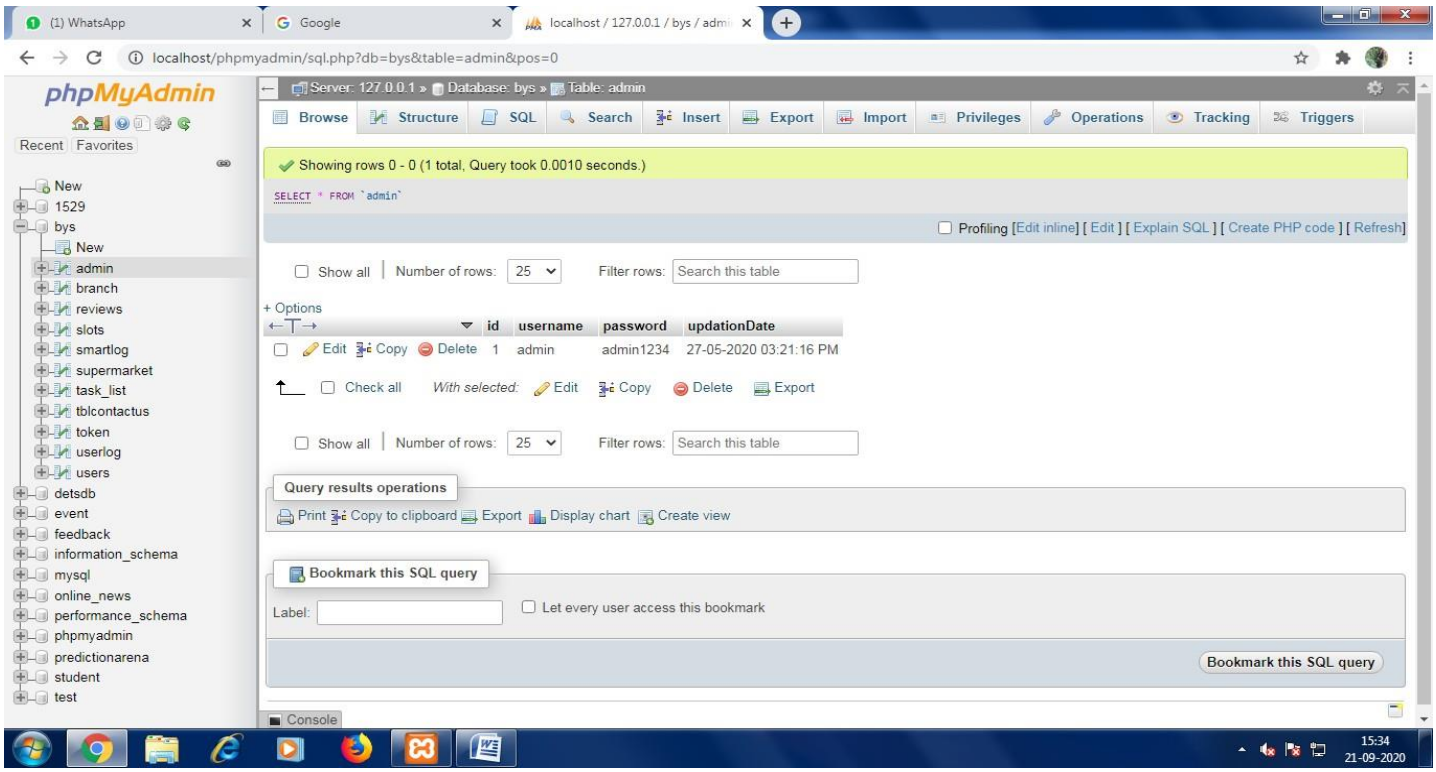


Figure 5.6: Admin Table

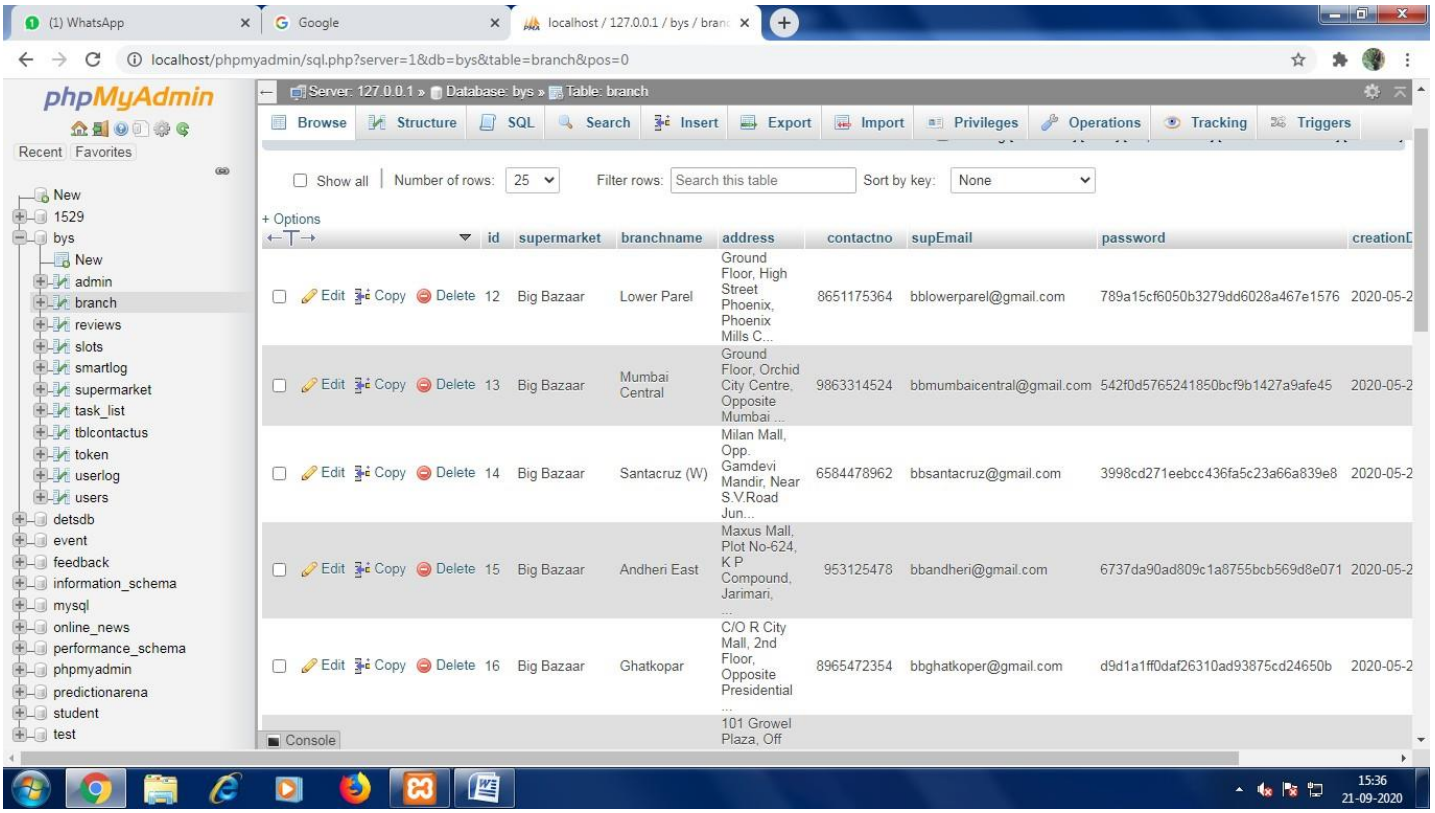


Figure 5.7: Branch Table

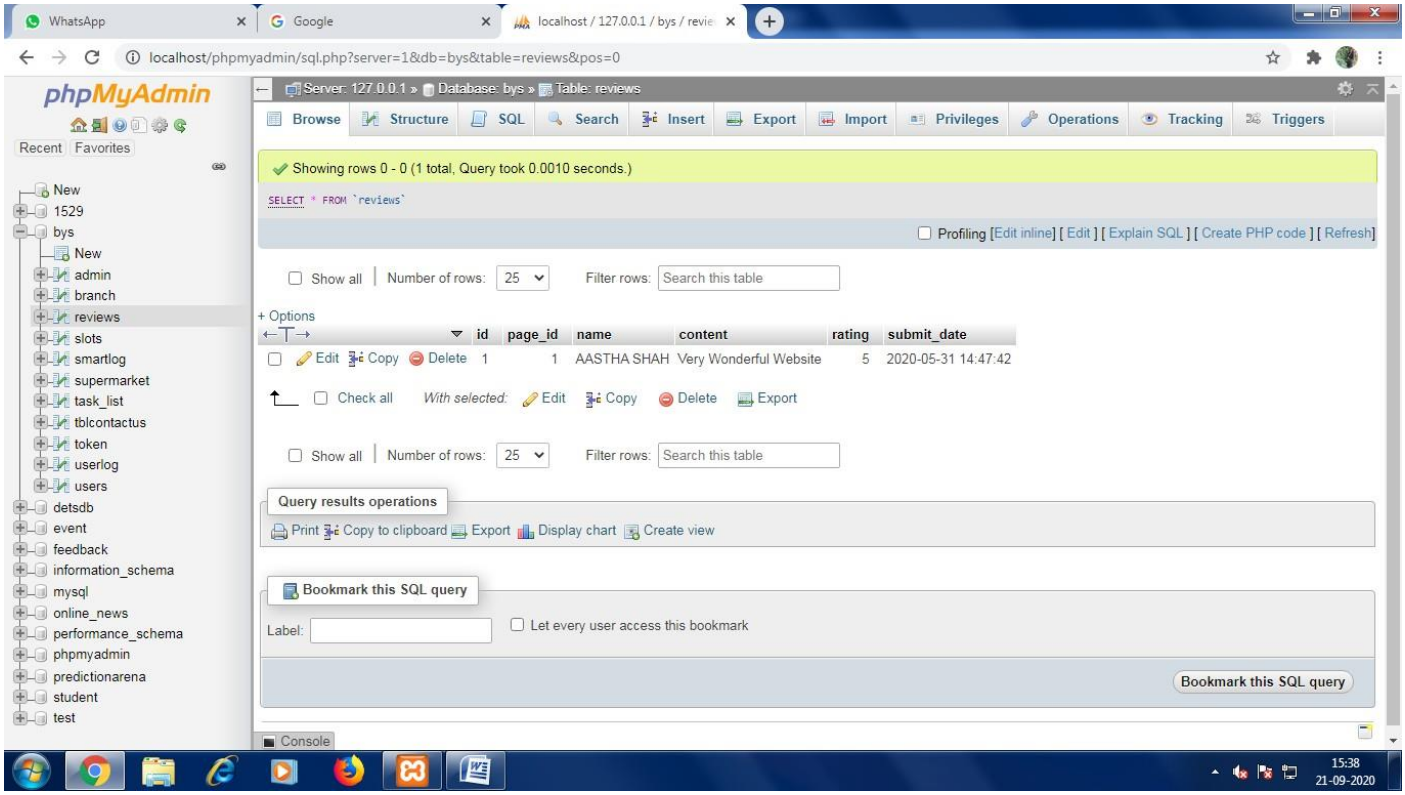


Figure 5.8: Review Table

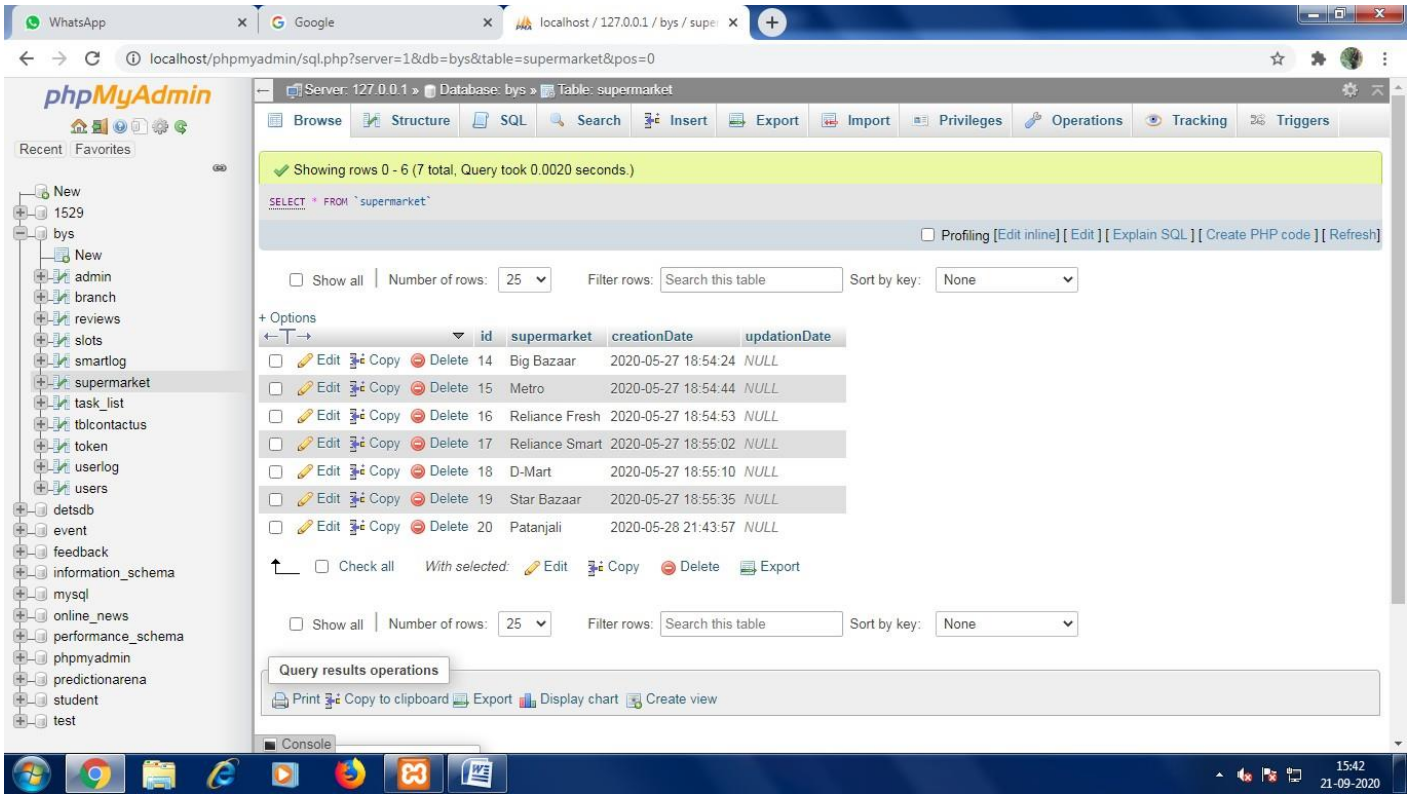


Figure 5.9: Supermarket Table

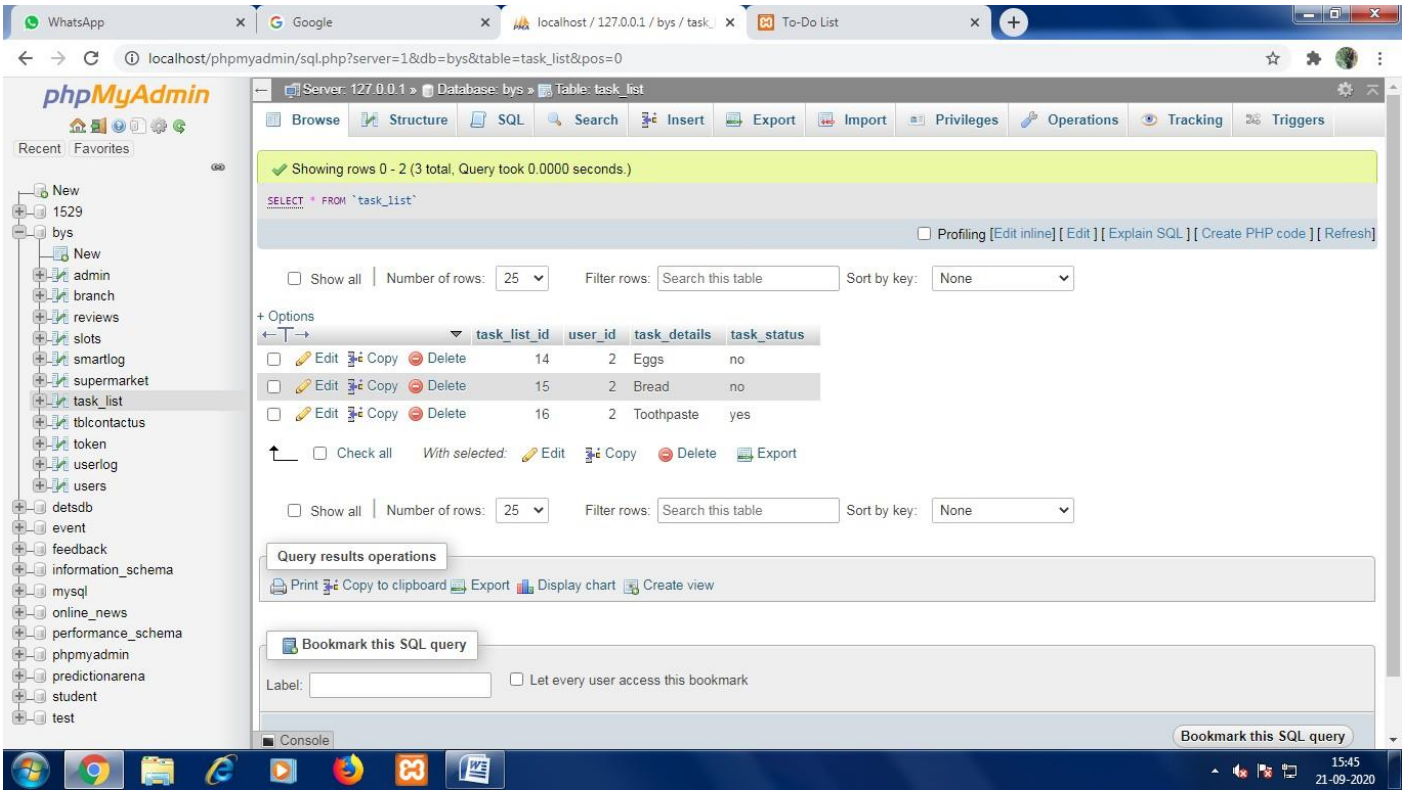


Figure 5.10: TaskList Table

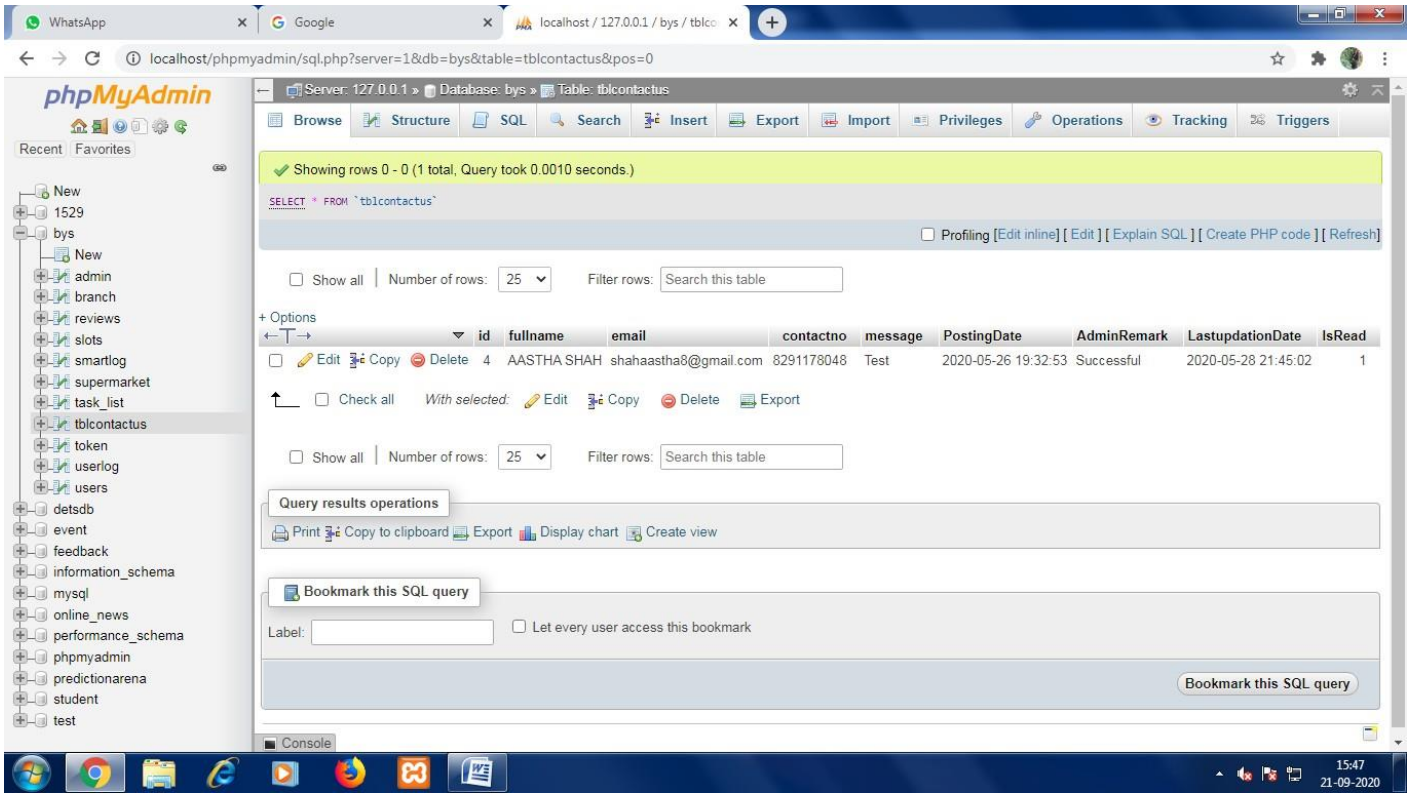


Figure 5.11: Contact Table

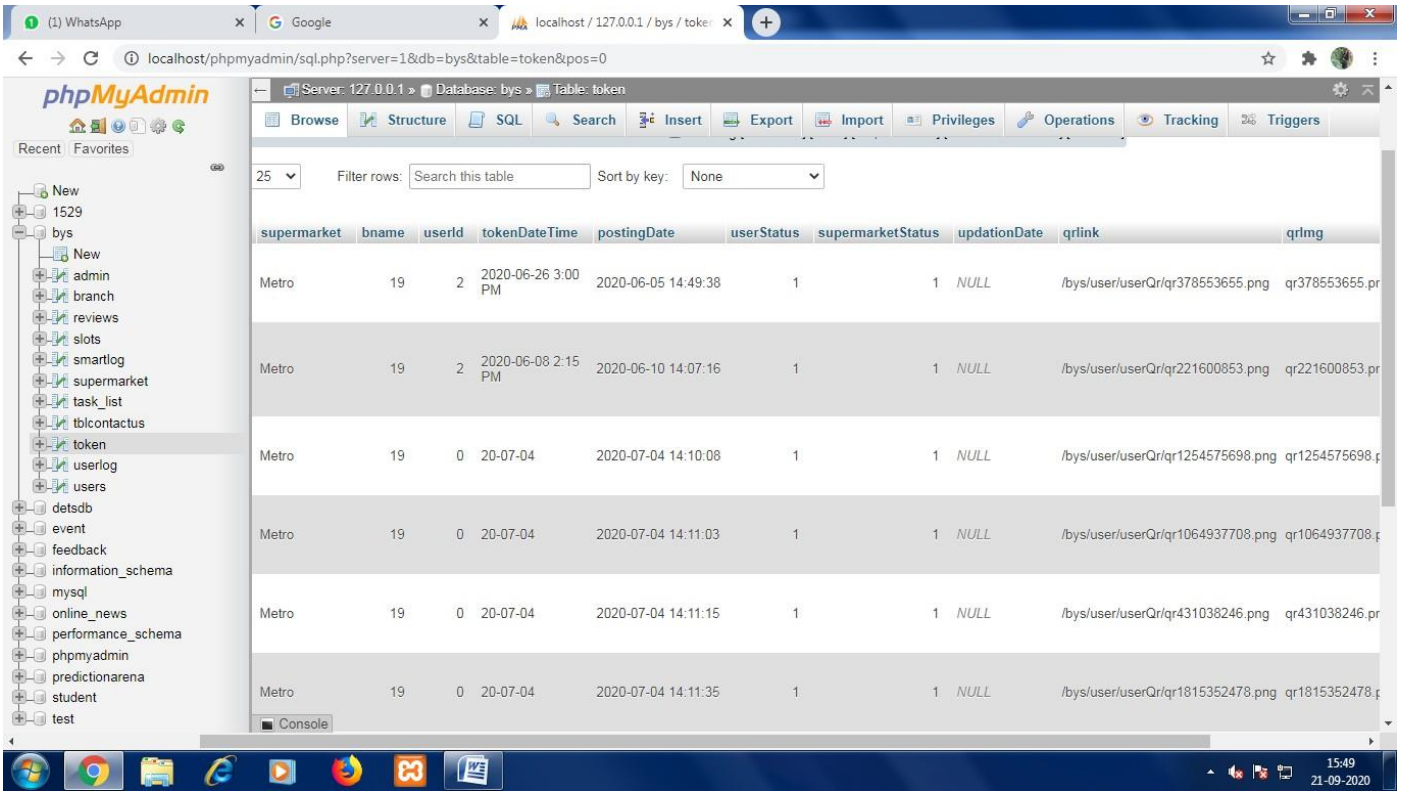


Figure 5.12: Token Table

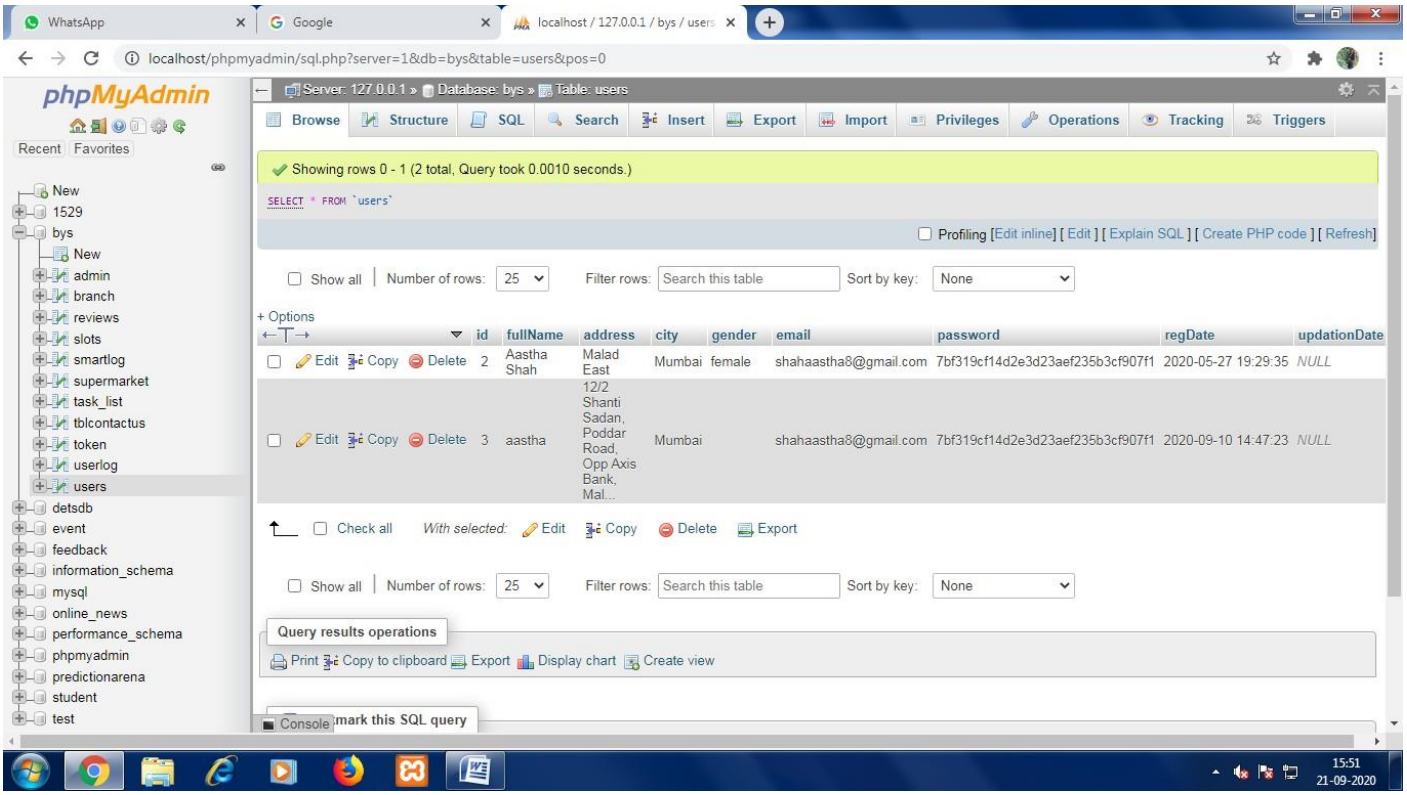


Figure 5.13: User Table

Conclusion

Chapter No.6
Conclusion

Through this software, the respective events will be managed and automated to the entire database in the network. With this project, human effort will definitely reduce and user/customer and the administrator's task will become much easier. It becomes easy to work on this software and it is efficient to use. Thus, by keeping in mind, the advantages and applications; we are developing this website. This software will help the administrator as well as a customer a lot.

As this situation will take a long time to be settled, even after the lockdown is opened we need to take precautions. We can enlarge the project by adding various modules such as restaurant, saloons, clinic and many more. The project can be a single solution for the many problems

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Mumbai University, India.IJCST– Volume 4 Issue 2, Mar - Apr2016

[3] Website:https://www.scribd.com/document/342098952/SynopsisofEvent Management-System

Book your slot PBL project

Report Rollno-02,69,70 Inbox

Aastha Shah W New 25

Purvi Sankhe Nov 25

Report is Ok.But add screensg its in results not in design and implemeniation chapter.In

Aastha Shah Nov 2s

The updaled Report is attached.

Purvi Sankhe New 25

Ok.Figure number should be as per chapter.For example if figure is in chapter

Aastha Shah 08:43

Sorry for the inconvenience Have Mailed you the updaied report once again Please

Purvi Sankhe z:17

to me

Thls group has shown a complete project and report hence approved for submlssion.

Show equated iext

Noted with thanks. Noted. Thanks a lot.

Reply Rep(y all r-' Forward