

# **ONLINE BASED TENDER SYSTEM**

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of  
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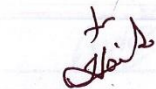
**DHAKA, BANGLADESH**

**NOVEMBER 2019**

## **APPROVAL**

This Project/internship titled “**Online Based Tender System**”, submitted by Mahbub Alam Rakibe, ID No: 161-15-7594, Most. Merina Akter Mitu, ID No: 161-15-7231, Mehedi Hasan Masum, ID No: 161-15-7090, Naimul Hasan, ID No: 161-15-7201 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 7 December 2019.

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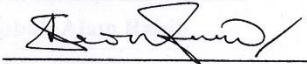
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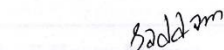
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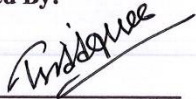
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## DECLARATION

This Is The Declaration Of The Project That, Is Has Been Created By All Of Our Team Member Under The Supervision of **Shah Md. Tanvir Siddiquee**, Lecturer, Department Of CSE, Daffodil International University. This Project Is Unique And Nowhere Else It Can Be Found.

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First Of All, All Thanks Goes To Our Lord And Creator Almighty Allah For Making Us Capable Of Doing This Project.

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We Are Also Grateful To Our Honorable Teacher And Head Of The Department Of The Computer Science And Engineering, Daffodil International University **Dr. Syed Akhter Hossain**.

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We Are Even Grateful To All Our Batch mate Who Were Excellent When We Needed Help.

Finally, We Must Acknowledge With Due Respect The Uninterrupted Support And Patients Of Our Respectable Parents.

## **ABSTRACT**

The project is on tender management system. This is a web based project. Now a days web is most popular and easy communication medium. This is an online tender management system. Buyer and seller can do business among them without reaching each other physically. Buyer is going to post their required product with details they need. Seller will be able to see all the details of the product of the buyer. After that, seller can bid the product. This project is for the Bangladeshi people. The user will be able to use the web site as their desired. The site is very user friendly and very easy to use even for the general people. For more functionality we added more features for the buyer. Our website will arrange all the products for the buyer and seller in a different way. A user friendly eco system will make the business process and business activities more easy to use and time efficient work. Both buyer and seller can express their own opinion. For that, we added comment section. Buyer will be able to add their comment when they publish their product requirements. The seller can add comment for the published product requirements. Personal contact will be also available. Both buyer and seller have to create account. The admin will manage all the account and all the post.

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# **CHAPTER 1**

## **INTRODUCTION**

### **1.1 Introduction**

E-Tender System Is Online Tender Management System Project Which Will Work As Medium Between Buyer And Seller. Buyer And Seller Can Buy And Sell Their Product By The Tender System Where Buyer Will Select The Seller By The System Of Bidding The Products.

### **1.2 Objectives**

Our Objective Of The Project Is, Making The Tender Market More User Friendly And Very Efficient And Flawless Online Tender Market For Buyer And Seller.

The Objectives Are:

- A Fully Online Tender Management System
- Online Tender Market
- Easy Communication Of Buyer And Seller
- Online Account And Information Management
- Making Bidding Product Easier
- Registration For Every Buyer And Seller So All Data Record Is Saved

### **1.3 Motivation**

Most Of The People Around The Whole World Has Access To The Internet. Most Of The Device Has Access To The Internet Also. Windows, Android, Linux Every OS can Browse The Internet. So Our Project Can use By Millions Of People Because Of The Availability Of The Internet. This Website Can Change The Tender Market. Also We Hope That, The Website Can Revolutionize The Tender Market Which Is Not Popular Across Our Country.

## **1.4 Expected Outcome**

Our Project Is Solely Designed For Buyer And Seller. By This Website, Buyer And Seller Will Be Able To Continue Their Business Hassle Free. The Tender Market Is Going To Gain More Attraction By More People. As It Become Accessible To More People, The Market Will Be More Popular Than Before. The Competition Will Be More So The Buyer Profit Will Be Increased. Seller Will Be Also Able To Find Out More Buyer According To Their Desires. As communication is going to be faster, the business profit will be more than before. people will be inspired to do these tender based work more than before.

## **1.5 Report Layout**

We Achieved Theoretical And Practical Knowledge From Our Graduation Degree. By Implementing This Project, We Are Enhancing Our Knowledge In The Next Level. We Divided Our Project Report Into Five Chapter. The First Chapter Contains Introduction. Second Chapter Contains Backgrounds. The Third Chapter Contains Software Requirements Specification. The Fourth Chapter Contains Design Specification And The Fifth Chapter Is The Conclusion And Future Scope. At The Very Beginning Of The Report We Have Added An Index Of Whole Report To Ensure That, All Of The Contents Can Be Found Easily. We Have Also Added The Index Of All Of The Figures Individually. The Page Number Of The Each Content Has Been Added.

The Third Chapter Contains All The Diagram Of The Project. The ER Diagram, UML Diagram, Flow Chart Diagram Has Been Added. The Fourth Chapter Contains The Front And Design And Back End Design Of The Project. We Have Added Multiple Screenshot Of Our Code In This Chapter. In The Last Chapter, We Have Concluded Our Whole Project.

## **CHAPTER 2**

### **BACKGROUND**

#### **2.1 Introduction**

“TenderBIZ” Is An Online Software That Will Manage Overall Process Of The Whole Tender Market System. There Are Different Companies Who Wants To Hire Seller To Supply Product Based On Their Demand. In Our Country, These Works Are Done In Offline Market. Which Is More Complex And Time Consuming. The Process Sometimes Fails Due To The Lacking Of Proper Management. Our Software, TenderBIZ Is Here To Solve The Problem.

#### **2.2 Scenario Of Tender Market**

Buyer Post Their Demand On The Tender Office. Seller Must Have To Go The Office In Order To Get The Work. They Have To Bid To Win That Work. All The Process Are Human Depended. So, Sometimes Corruption Might Take Place In There. Even The Proper Applicant May Not Be Able To Bid The Product. The Buyer Will Not Be Able To See the Previous Record Of The Seller To Ensure Quality Supply For Their Products. After Approving The Bid, The Seller Get The Work To Supply The Products.

#### **2.3 Related Works**

We Added Few Works Which Relates With Our Project Goal. We Did Create Communication Medium Between Buyer Seller Within The Bid Button. For Buyer They Can Check Manually All The Information Of Seller. Individual Profile Of Buyer And Seller.

## 2.4 Features

- Buyers Account
- Sellers Account
- Requirements Specification
- Live Tender
- Tender Search
- Tender View/Bid Count
- Seller Rating
- Best Seller Recommendation
- Categorized Products
- User Friendly User Interface

## **CHAPTER 3**

### **SOFTWARE REQUIREMENT SPECIFICATION**

#### **3.1 Business Process Model**

We Have Implemented Business Process Model In Our Project To Ensure Quality And Better Documentation. It Will Also Allow Us A Better Communication Between Developer And User. The Mutual Understanding Between Client And Developer Will Be Also Increased As We Have Used This Model. Transparency Is Another Advantage Of This Model. Everyone Has Clear View Of Trust And What We Have Done In The Project. It Has The Best Efficiency And Less Time Consuming Which Is Very Important To Develop A Successful Project Within Time. The Model Gives Everybody Clear Idea What Is Being Created. It Is Also Very Consistent. The Extra Bonus Is It Gives Us The Control Of Whole Process Over Any Other Model. Sometimes Redundancy Comes At The Time Of Making New Software. It Happens Often. Business Process Model Is Giving This Advantage To Remove Redundancy.

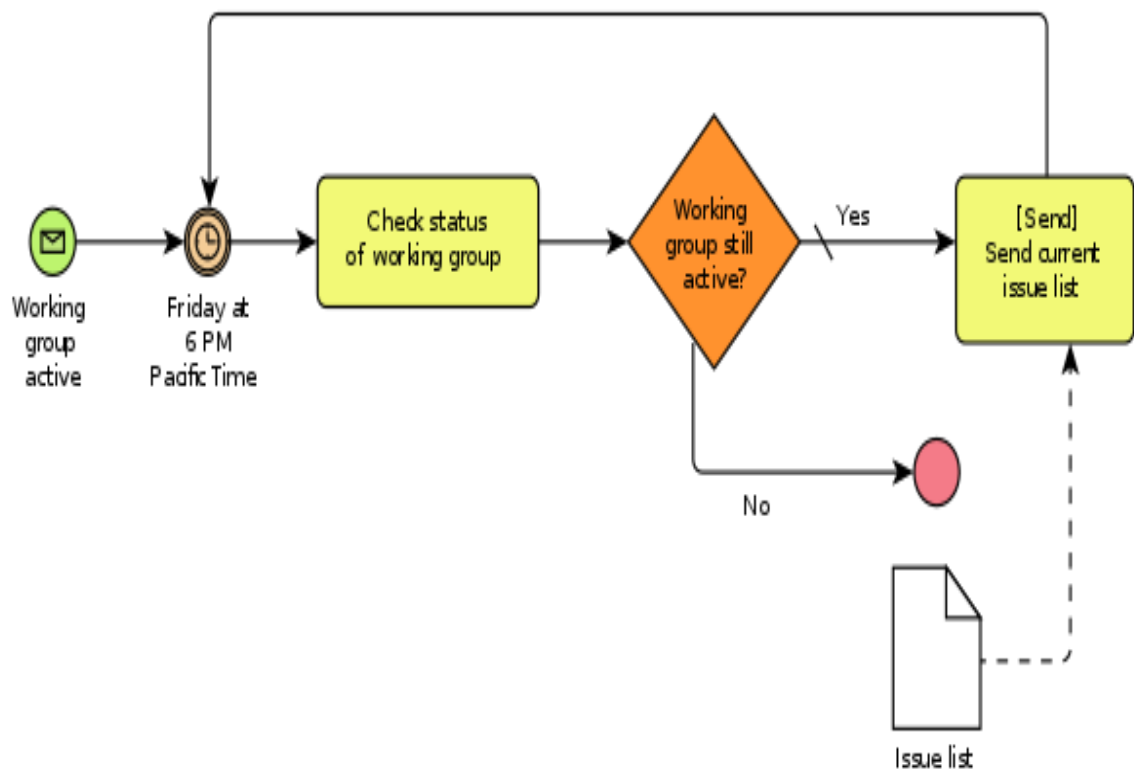


Figure 3.1 : The Process Flow Of The Business Process Model

### 3.2 Activity Flow Diagram

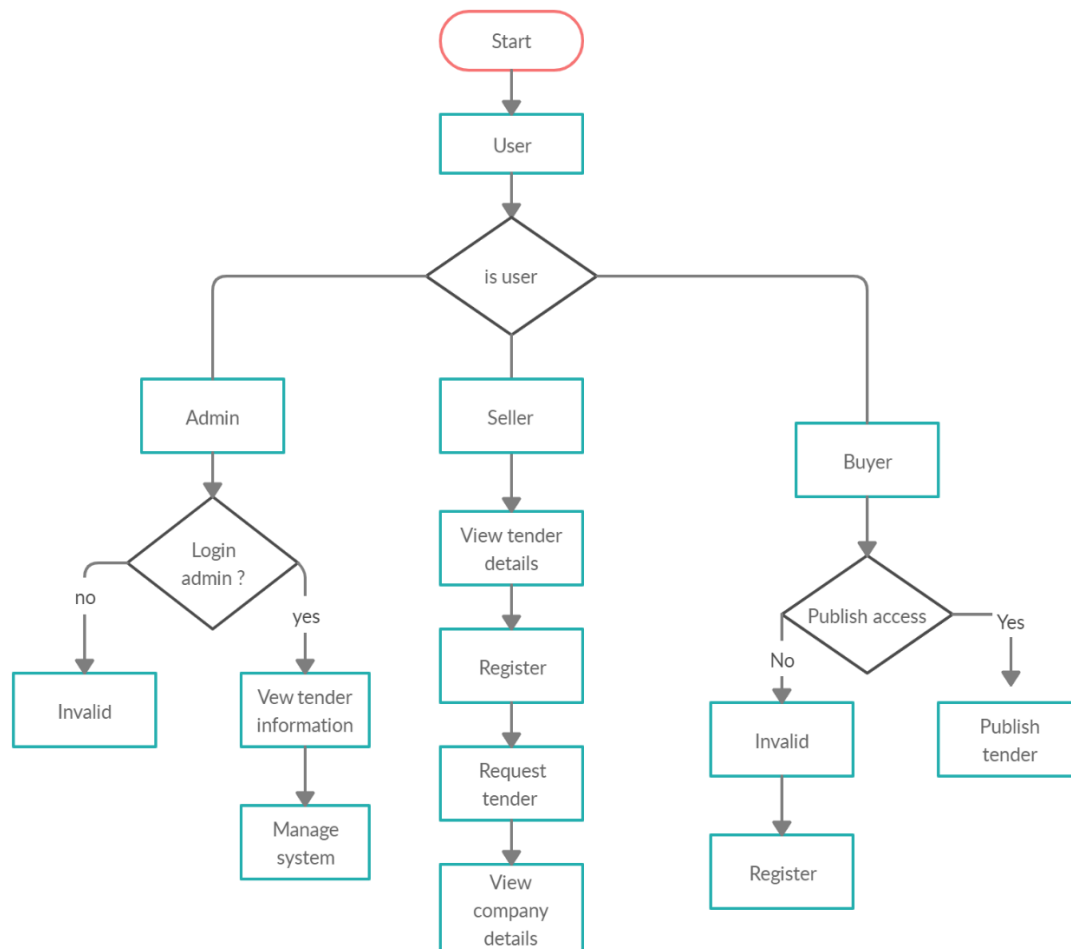


Figure 3.2: Dataflow chart diagram

#### Description:

User Will Start Using Our Website. Then Our Site Will Ask For Login If User Wants To Interact With Our Site. For Admin, No Need To Register. But For Buyer And Seller, Every First Time They Have To Register First. Our Site Will Check Whether He Is A Admin Or Buyer Or Seller. If He Is The Admin, Then The User Can View All Of The Information. If The User Is A Seller, The User Can View All Of The Tender, Can Bid Tender. Further This User Can View Company Details. If The User Is Buyer, He Or She Can Publish Tenders. Only Buyer Has Publish Access.

### 3.3 UML Diagram

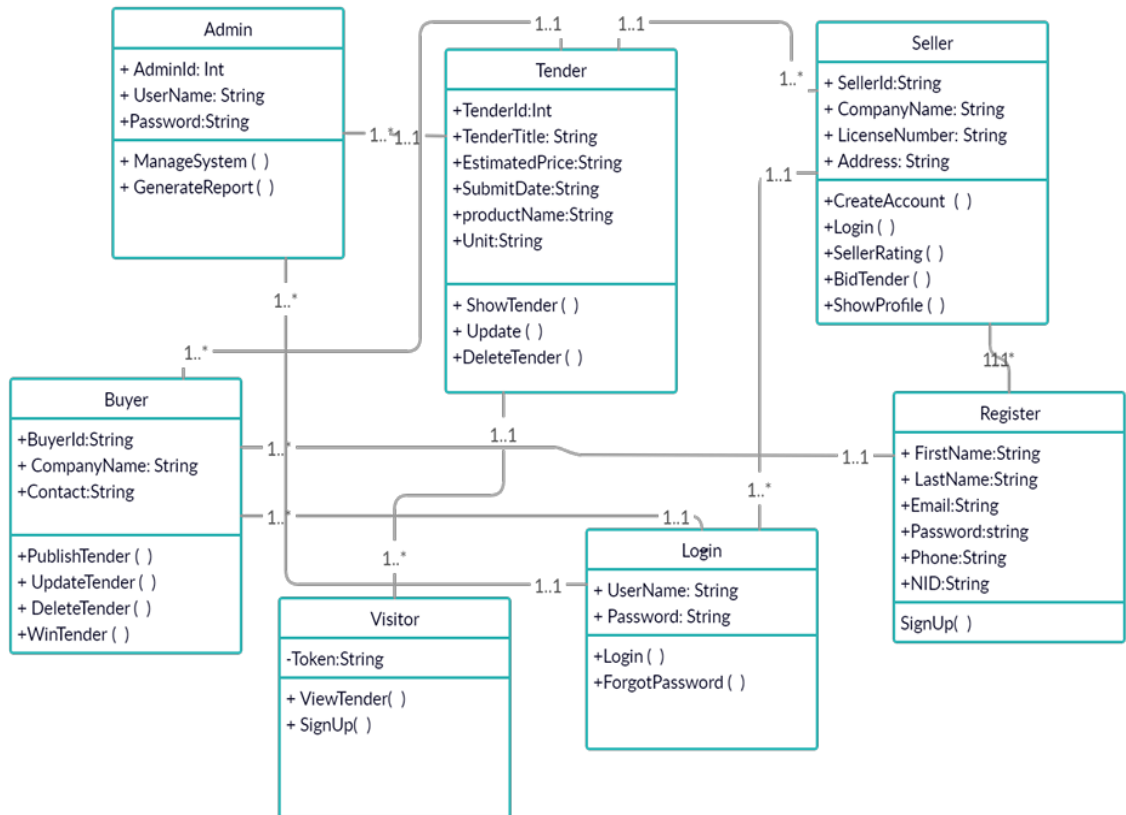


Figure 3.3 : UML diagram

#### Description:

Admin has three data type. Admin id (integer), user name(string), password(string).admin has two function. one is manage system and other is generate report.



### 3.4 ER Diagram

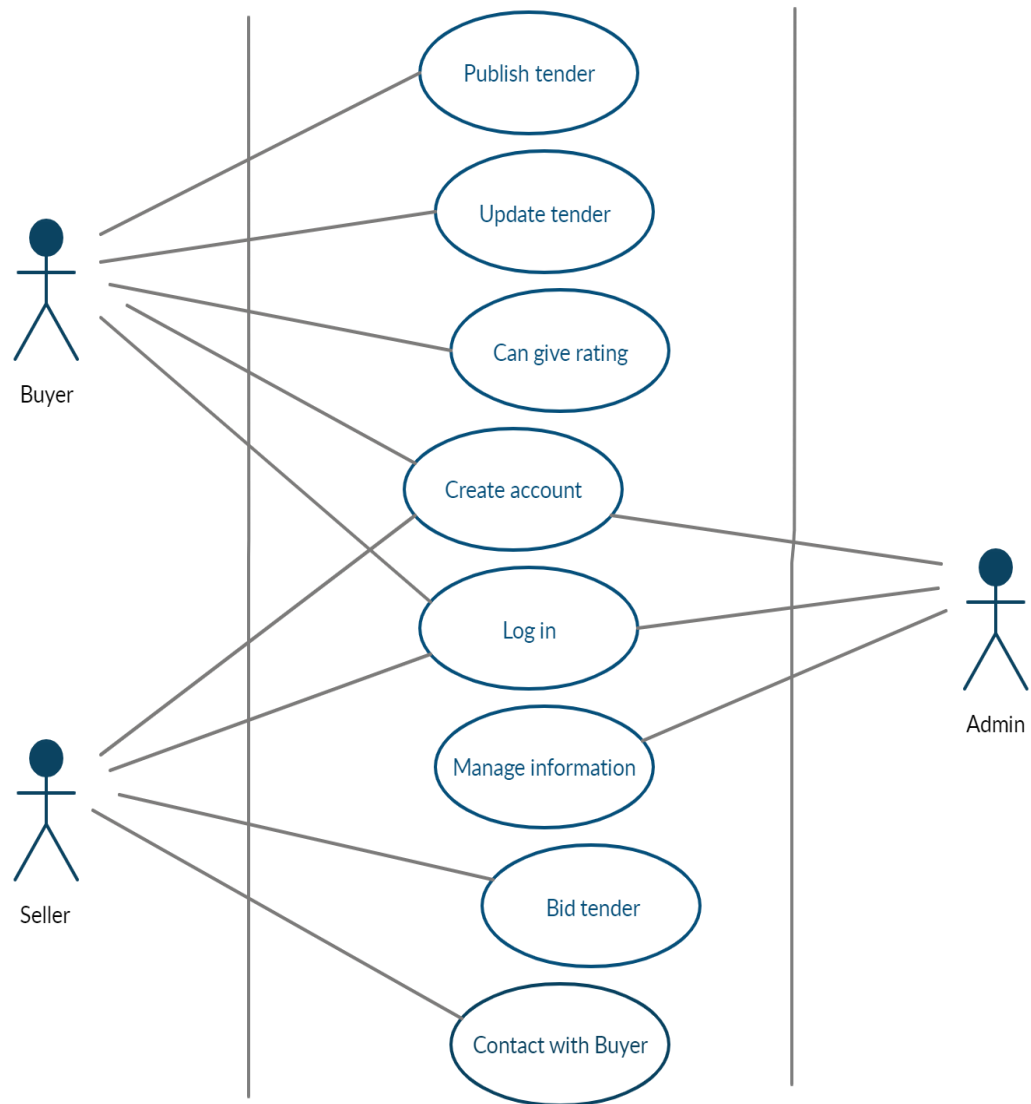


Figure 3.4 : Use Case diagram

## **CHAPTER 4**

### **DESIGN SPECIFICATION**

#### **4.1 System environment**

System environment is actually the set of variables that define and control particular aspects of process execution. In our system there are three actors: buyer, seller and admin. Here all actors can connect with system through web link. Buyer can publish tender and seller can bid it, On the other hand admin can manage data. In the system all actor has different login page.

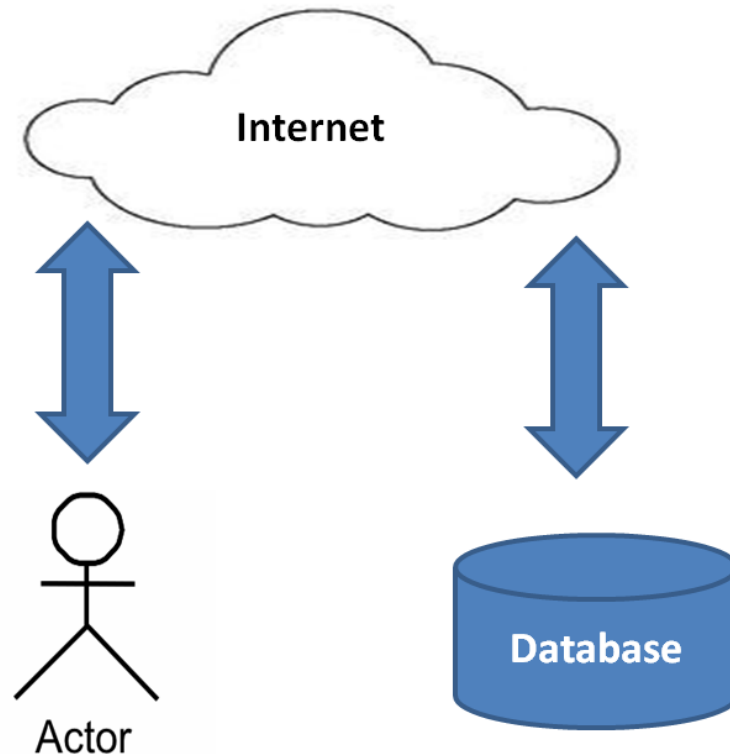


Figure 4.1 : System Environment

## 4.2 Front End Design

This Is the Home Page Which Can Be Accessed By Everyone Without Any Login.

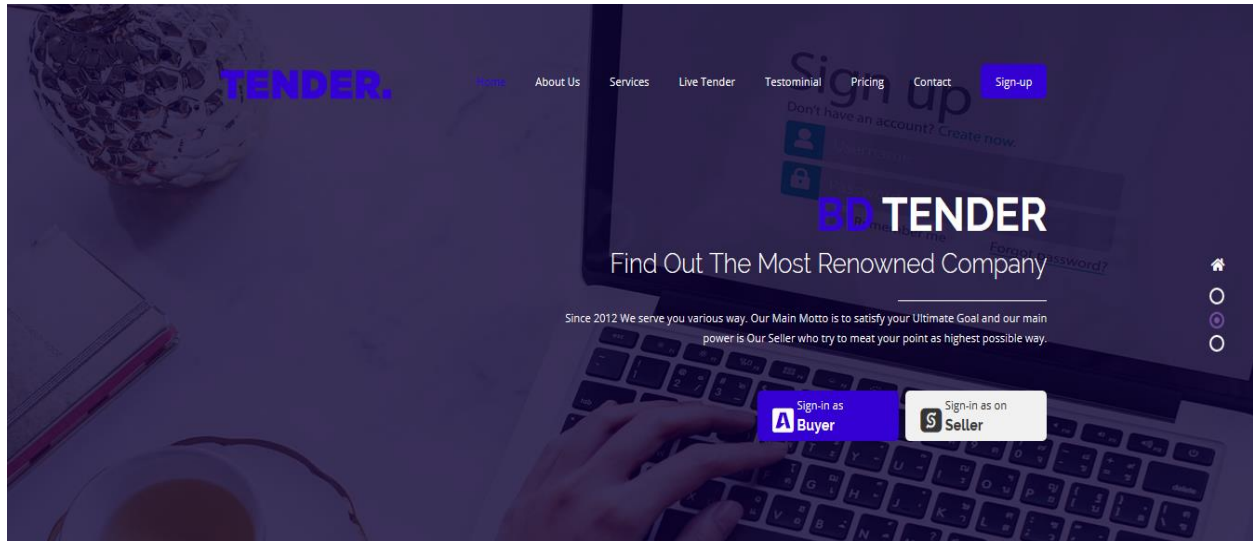


Figure 4.2 : The Home Page

Our Services Page. Each Category Has Its Own Product Section With More And Individual Product.



Figure 4.3 : Services Page

## 4.3 Back-End

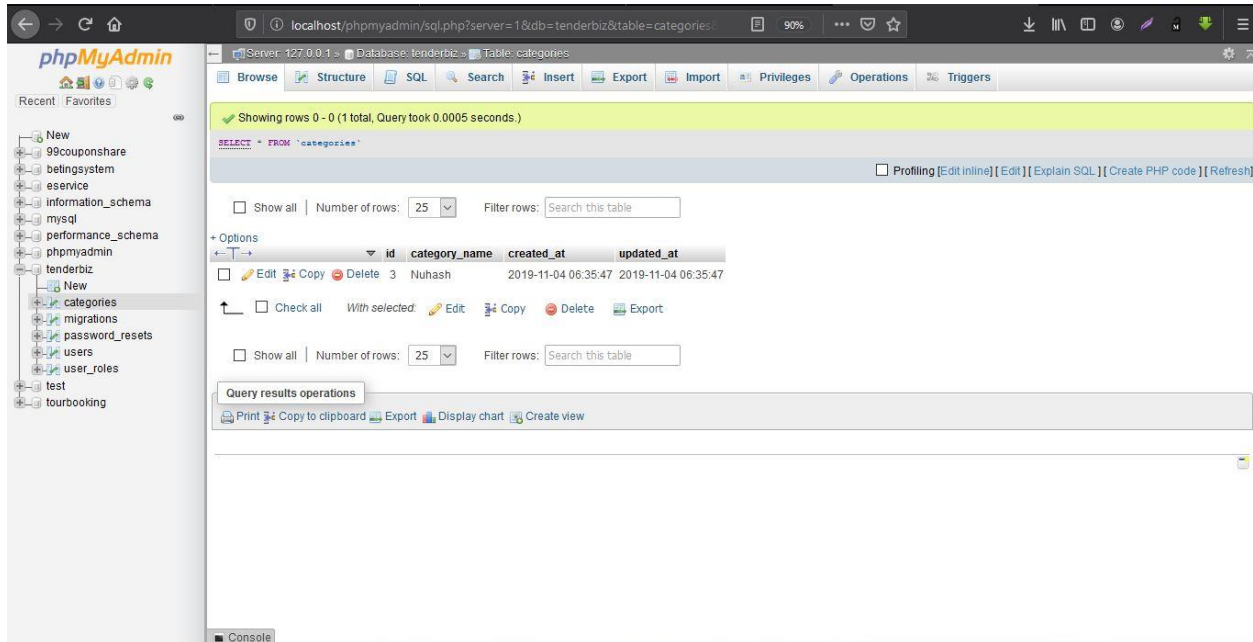


Figure 4.4 Database Table

The Database panel here we link up with our data value in xampp server whereas store the adding data in this panel. Database With All Of the Required Tables.

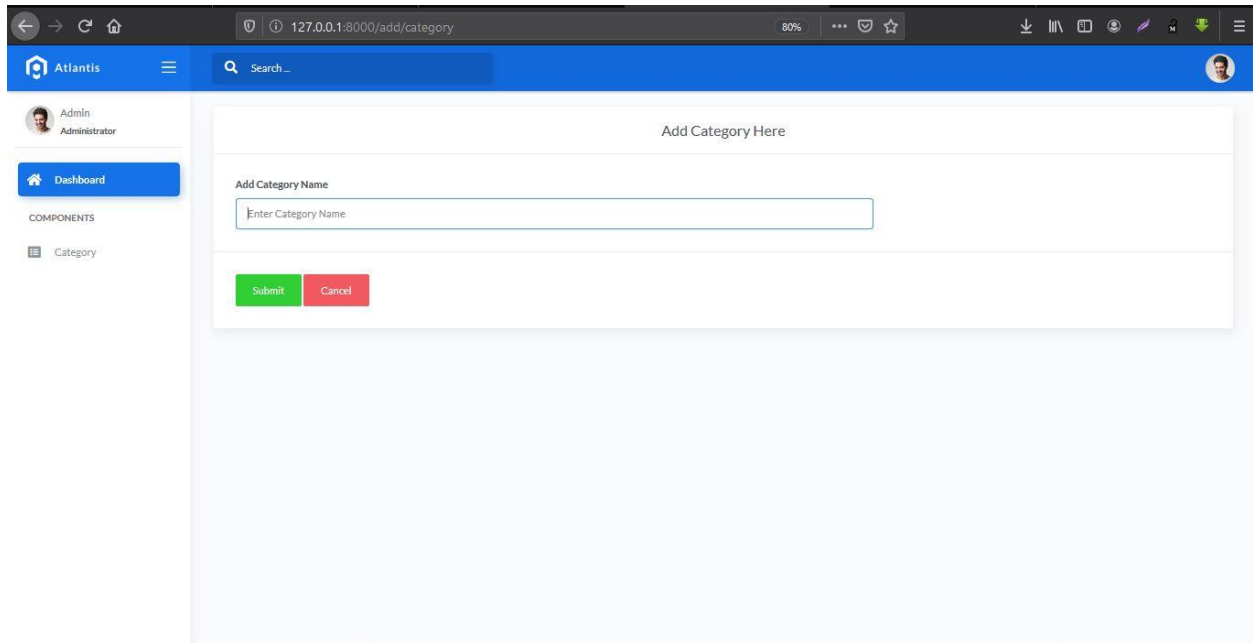


Figure 4.5: Database Insertion Page

The page shows a layout that mainly makes an admin panel where the admin holds all the rights to control the full panel. Where we fill different categories to fill up and start to create a buyer or seller.

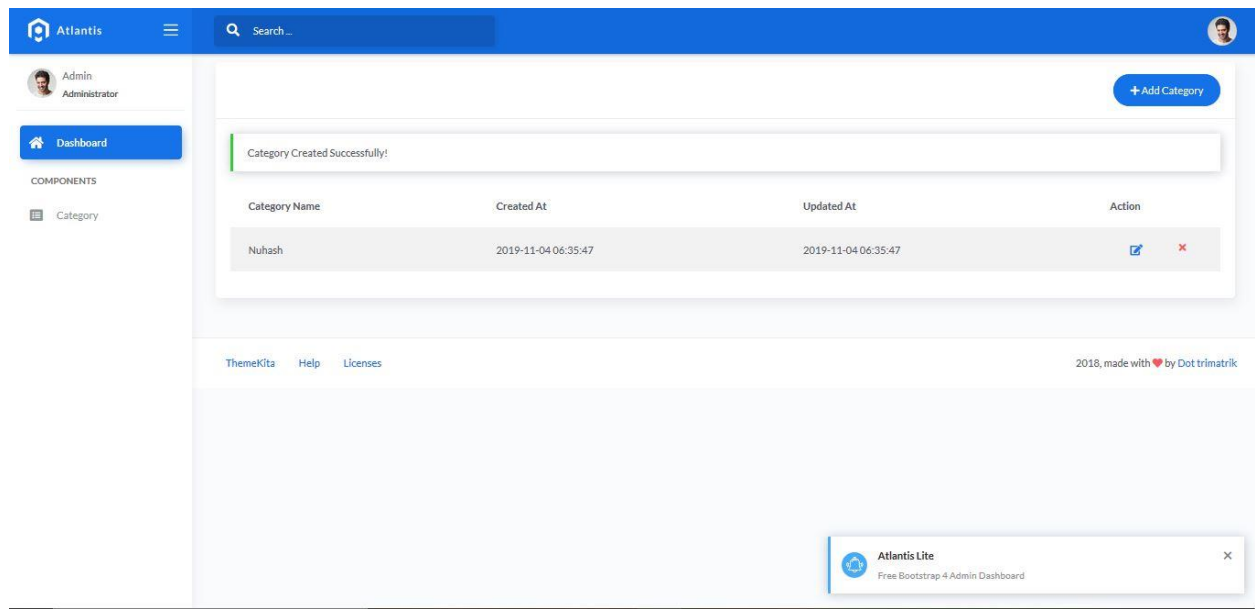


Figure 4.6: Database Insertion Page

Here showing the category filed the exact time of created a date and when it's updated its show the latest time. Also it can delete and from dashboard admin can control all over thing.

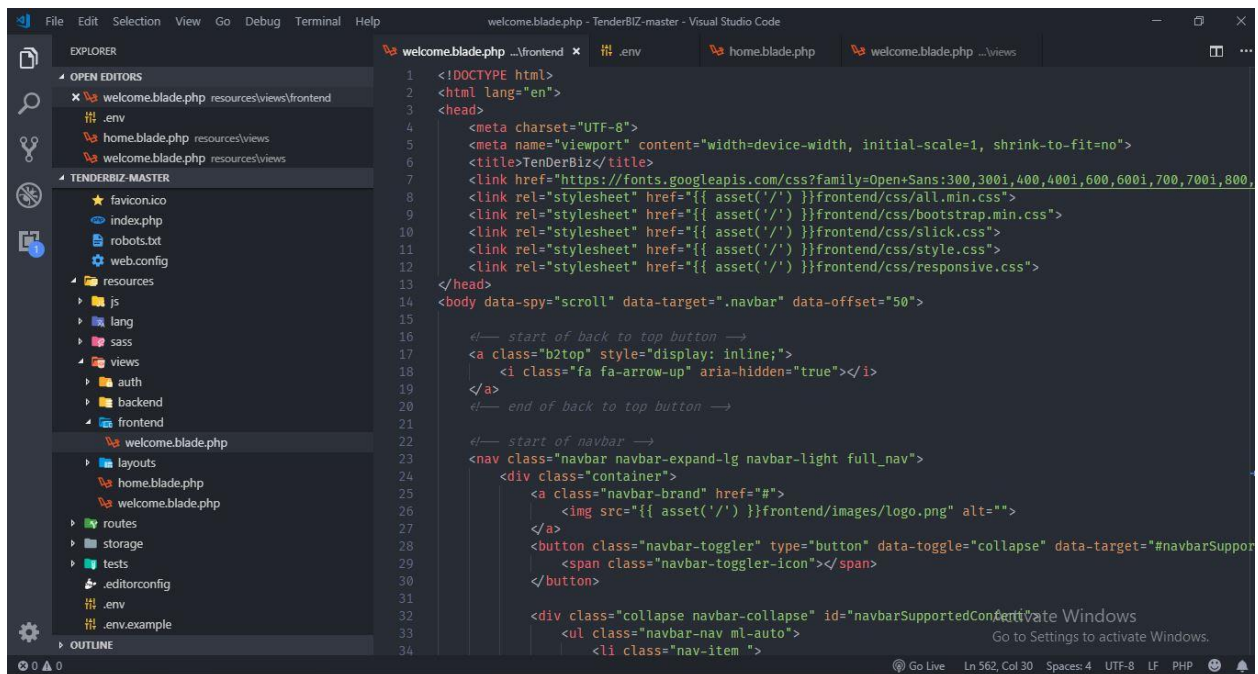


Figure 4.7 : Project Layout

Here showing the main code panel where we show some file regarding our code and in left panel present the all combine file.

#### **4.4 Testing and Integration**

At first, we compare our project with project proposal that we present our title defense then checked every single unit of our system. The process of testing aims is not only finding faults in these systems but also finding measures to improve the system in terms of efficiency, accuracy and usability.

#### **4.5 Black Box Testing**

In this testing part we test the system as ordinary user. First of we sign up from buyers account then publish a tender, after publishing we manipulate it by update and delete. We also use as a seller and bid the tender. According this process we checked admin panel.

#### **4.6 White-Box Testing**

White box testing deals with the internal logic and structure of the code.

Here we basically checked our database. White box testing is also called as glass, structural, open box or clears box testing. It uses specific knowledge of programming code to examine outputs. This type of testing gives a clear idea about what is going on during execution of the system. Very carefully we have done this job.

#### **4.7 Stress Testing**

To verify the stability & reliability of our system we performed stress testing. This process can involve quantitative tests done in a lab, such as measuring the frequency of errors or system crashes.



## **4.8 Cross browser testing**

Cross browser testing means to validate an application on various browsers to ensure that it is working and quality is unaffected. For ensure it we check

- CSS validation
- HTML validation
- JavaScript tenable
- Font size validation
- Page layout
- Header and footer sections
- Alignment
- Date formats

### **We have repeated these tests**

- on different Operating Systems like Windows, Linux, and Mac  
and different browsers like Internet Explorer, Firefox, Opera, and Google Chrome.

## **CHAPTER 5**

### **CONCLUSION & FUTURE SCOPE**

#### **5.1 Conclusion**

We Organize our Project by HTML, CSS, SASS,Bootstrap, jQuery, Laravel and MySQLDatabase.Admin and coordinators (with the permission of Admin) can edit, upload, add the events and participants details.The database is mainly update, delete, insert data for various purpose so that our client got publish their Tender with no hesitations.We developed the system after processing all the phases of system development cycle. The system is very handy and support all browser with the help of internet from all over the country. As we work in Bootstrap the website is view in various size of device with no lagging and work smoothly. The registered people can view the site details, upcoming events and the other sections such as feedback from other participants and also can response their own feedback. The site is fully organized and secured by the Administrator. No other person is access without permission of Admin.

#### **5.2 Future Scope**

The work presented in this the “TENDERBIZ” provides different possibilities for further work. Whereas some of them concern straightforward extensions of the presented approach and its service, there are also possibilities to combine the results of the project with other person to create a marketplace site project and have a great opportunity to increase our productivity.

- 1) Website (supporting all platform) is view in all types of Device.
- 2) Internationally use this website to create more scope
- 3) Not only the private Institute or Company it can be use government tender purpose. It will bring beneficial use.
- 4) not only fixed a normal tender idea. Should be exposed in other sector and occupied it different criteria.

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