DESIGN & DEVELOPMENT OF AN ONLINE TAILORING SYSTEM

BY

SanjidaAlam
ID: 163-15-8375

&

Shah Md. AshabShahriar
ID: 161-15-7095

&

Md. Nazmul Hossain
ID: 161-15-7400

This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering

Supervised By

Md. Tarek Habib
Assistant Professor
Department of CSE
DaffodilInternational University

DAFFODIL INTERNATIONAL UNIVERSITY

DHAKA, BANGLADESH

APPROVAL

This Project titled Design And Development of an Online Tailoring System submitted by Md. Nazmul Hossain , ID No : 161-15-7400 & Shah Md. Ashab Shahriar, ID No : 161-15-7400 & Sanjida Alam , ID No : 163-15-8375 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 07/10/2020 .

BOARD OF EXAMINERS

_____

Dr. Syed AkhterHossain   **Chairman**

Professor and Head

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Daffodil International University

_____

Nazmun Nessa Moon   **Internal Examiner**
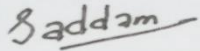
Assistant Professor

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Daffodil International University

_____

Gazi Zahirul Islam   **Internal Examiner**

Assistant Professor

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Daffodil International University

_____

Dr. Md. Saddam Hossain   **External Examiner**

Assistant Professor

Department of Computer Science and Engineering

United International University

DECLARATION

We hereby declare that this project has been done by us under the supervision of **Md. Tarek Habib, Assistant Professor, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma but some portion of are Open source.
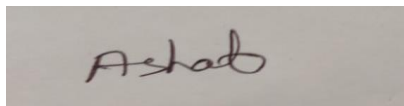
Supervised by:

…………………………………

Md. Tarek Habib
Assistant Professor
Department of CSE
Daffodil International University

Submitted by:
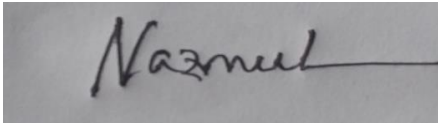
Sanjida Alam

………………………………..

Sanjida Alam
ID: 163-15-8375
Department of CSE
DaffodilInternational University

………………………………..

Shah Md. Ashab Shahriar
ID:161-15-7095
Department of CSE
DaffodilInternational University

………………………………..
Md. Nazmul Hossain
ID:161-15-7400
Department of CSE
Daffodil International University

Acknowledgment

First, we express our heartiest thanks and gratefulness to Almighty Allah for His divine blessing makes us possible to complete the final year project successfully.

We really grateful and wish our profound indebtedness to Supervisor **Md. Tarek Habib,** Assistant Professor,Department of CSE Daffodil International University, Dhaka. Deep Knowledge & keen interest of our supervisor in the field of Web Development with Laravel to carry out this project. His endless patience, strong vision,scholarly guidance, constant and energetic supervision, constructivecomment about this project, valuable advice, strong eforts and correcting them at all stages have made it possible to complete this project perfectly.

We would like to thank our entire coursemate at DaffodilI nternational University, who took part in this discussion while completing the course work.

Finally, we must acknowledge with due respect the constant support and patience of our parents.

ABSTRACT

Design and Development of an Online Tailoring Systemis a web-based project with the help lots of open source plugin, theme, template. Moreover, a web-based system is very familiar nowadays.TailorApa helps womens to order for their clothes with sizes in a private system.It is user friendly UI/UX help user for order any cloth.This site is developed by PHP with the Laravel framework.It has good UI/UX and security system.There are generally two apnsel and user roles in this site. (1)Admin (2)User ,.Admin can control the whole system exceptuser order and intier product booking system.Admin can add/delete/edit/update product and product full information.And the user only can use the system for private/custom order and product booking.So the system is built for specially women for custom tailoring also in corona panodomic .

TABLE OF CONTENTS

Contents

FIGURES   **PAGE**

CHAPTER 1: INTRODUCTION

1.1 Introduction

Design and Development of an Online Tailoring System project where users can book any kind of tailoring cloth and also can sent custom order.It has two panel phases.1.Admin 2.User.Admin can create/delete/edit/update product and can see who are booking this product , their booking information.Admin also can see user's custom order / body / cloth size form user given details.Users can book any product and can send their cloth & body size information to admin. This system is developed by PHP with the help of Laravel framework.Laravel is a popular open-source framework for the development of web applications. The system current version of Laravel is 5.8.33.

1.2 Objectives

There are many online sites where user can buy cloths but our strong visionary plan is User can order us for cloths making. User don't need to go outside or tailor shop for size and measurement . Also in Covid-19 panedemic situation it's very harmful for people if they go outside. From our system they don't need to go outside.

- Developing a user-friendly online tailoring website / system in Bangladesh.
- User body measurement / size will be private and data will be secure.
- User can book any cloths/product from system define.
- User can see their cloths status either it's ready or not. Admin will change the status and User can see that notification.

1.3 Motivation

This is the new era of Information technology.People are becoming dynamic day by day.Nowadays people much more depending on the online based activities. So building this kind of thing for the people who want to book custom cloths and make cloth from an expert tailor. There are manywomens feel hesitate publishing their body size / measurement to a man for making a new cloth and This is also in corona situation womens are in lockdown. For making new cloth they have to go to outside and select their desired cloth and order to tailor for their custom cloth.But on our system / using our system you can save your time and life. The customer won't need to surf for a long time.Our system motivates both womens and lady to find the best product/tailor to make their cloth privately

1.4 Expected Outcome

The online tailoring system is very interesting for thewomens who are concern about their privacy. Beside custom cloth order you can buy/book cloth from our system.So the expected outcome of this project is:

- System UI/UX will be very user-friendly and light-weight.
- Tailor and User both will get help.
- This site can make a liitle contribution to make vision Digital Bangladesh 2021.
- User can buy and give custom order with privacy ensurement.
- It will help to save time of the people .
- People will make their cloths from their favourite tailor from away by using this platform .

CHAPTER 2: BACKGROUND ANALYSIS

2.1 Introduction

We have seen websites with different vendors with different offers.But we haven't found
any website which shows product choose and thesame custom order for that product in
system. Our site makesa relation between buyers and users to find the best product in
their respective choice and place.

2.2 Related Work

There are few websites available in Bangladesh like zotno, tailorbd.These websites show
only they can give it to tailor nothing else. But in our system they can choose any (from
our system or out of our system) product / cloths. After choosing any cloth/dress they can
provide their body size privately, securely without any privacy concern. But others
competitor system are manual. They have no privacy concern option. \

Also after buy any product or give custom order user have to call those system to know
about their product recent situation but in our situation you don't have to call. You can
see your product steps/situation from your dashboard. Just login. We made it , keep it
simple for all respective user.

2.2.1 Zotno

This website agent will pick your dress and then made your dress. And therewas no time period graph for the product and change request size of your.No status for customerso people don't know about the deadline of the product. No auto pickup solution from system.
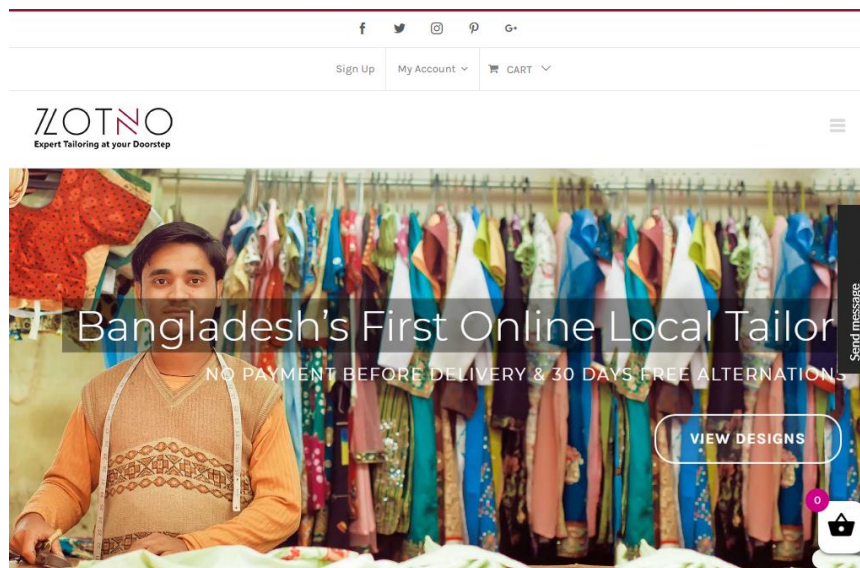
Figure 2.1.1:Screen Shot of Zotnointerface

2.2.1.1 Analysis of Zotno

To get the any product choosing are not here. But from our system you can input all type of information from our system no need to go semi automated system.

To get the dress customer has to search for the specific product in our product vendor system.Customers can get the desired product/dress from our vendors system and give size at a time.
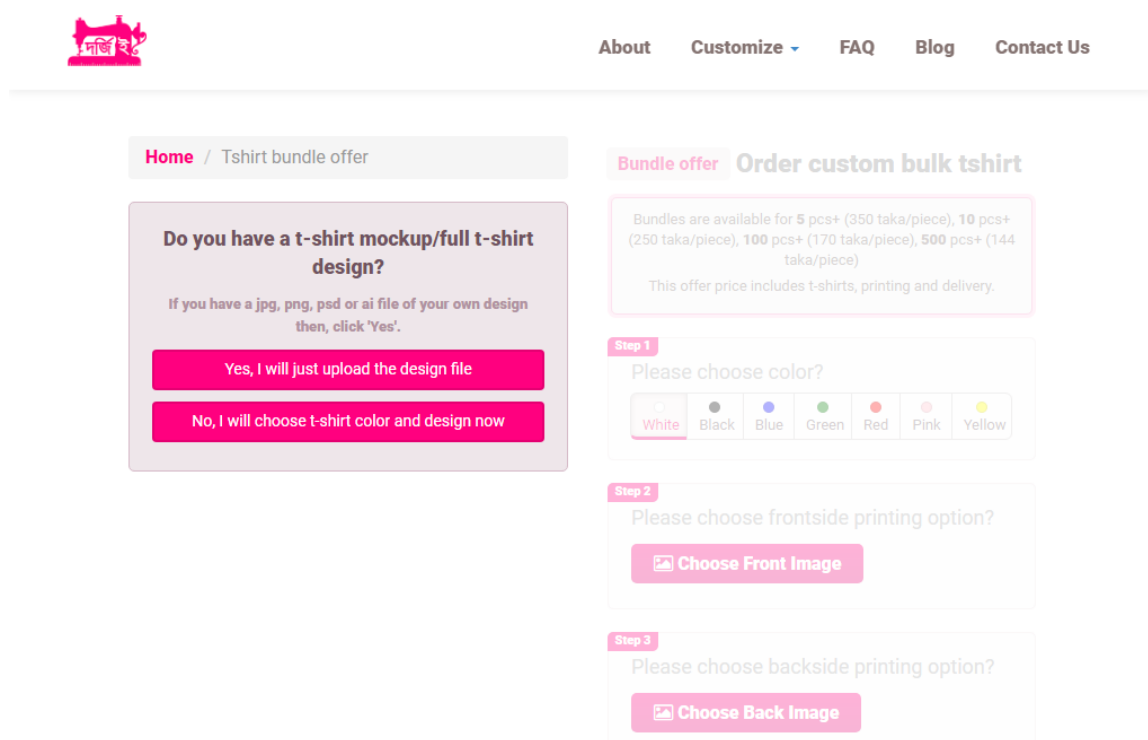
2.2.2 Dorjie

Fig: Dorjie Website

Dorjie is a online based tailoring site. This startup helped by Grameenphone and Bangladesh Startup Club.

2.2.2.1 Analysis of Dorjie

Dorjie is also a online tailoring shop but there problem is they can accept few type or layers of dress. Otherwise they can't accept dress order. But in our site web can make sure that we can make various kind of product for our women.

The user friendly good looking UI/UX layer help to our customer buy regularly and more relaxly. Dorjiethey accept only if you sent the type of your dress but in our system you can buy pre-made dress from us. Dorjie website didn't write anywhere in there website the minimum price of their product but we write that for our customer.

2.3 CHALLENGES

There are so many challenges in this project because we had worked with many stack and different platforms.Also, we are non-professional members ofthe project group.ourchallenge's are

- We were only 03(three) members in this project.Both of us don't have the high programming skill about Framework development.
- ACL (Account Control List) & middleware for this 03 panel created troubleshoot for this application.
- Independent login route create also was a challenge.
- Managing the code base for our team-mate was a big issue. But we use github for our code collaboration.
- Our project have bug and that's why this is not working properly everytime.We were a little tensed but we took the challenge
- We worked on this project with PHP – Laravel,Javascript,My SQL,Bootstrap,CSS,HTML5,Composer package-manager and Laravel for framework.
- The deadline for the project was also a factor.
- We didn't have enough resources for this project on internet.

- The site does not ensure 100% realtime work.

CHAPTER 3: REQUIRMENT SPECIFICATION

3.1 REQUIREMENT ANALYSIS FOR MY OFFER BD

From the background analysis, we knew the requirement ofTailorApa.In this system, we have two panel / admin dashboard .1.Admin 2.Users.

Admin can control the whole site.Admin can add admin, user, product, receive custom orderand log-reader to see any bug ongoing on our whole system.
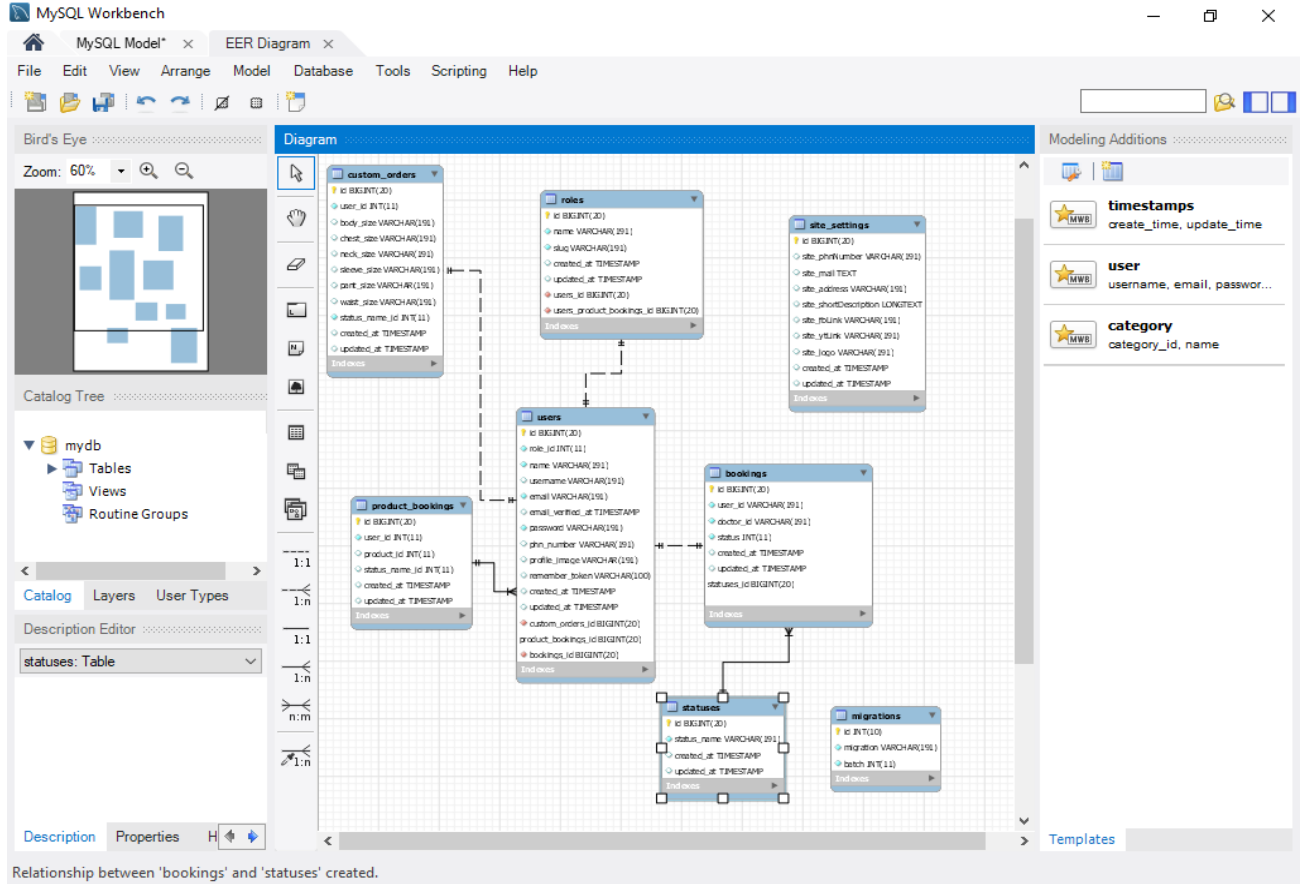
3.1.1 ER DIAGRAM

Figure 3.1.1:ER diagram Modeling

©Daffodil International University

ER Diagram refers to the relationship between attribute and shows the activity of the attribute

Fig: from PHPMyAdmin

Fig: SQL Project Dimension

3.2.1 USE CASE MODELING

Use case refers to the activity of the admin ofTailorApa.The admin can control the whole system exceptcustom order of user.
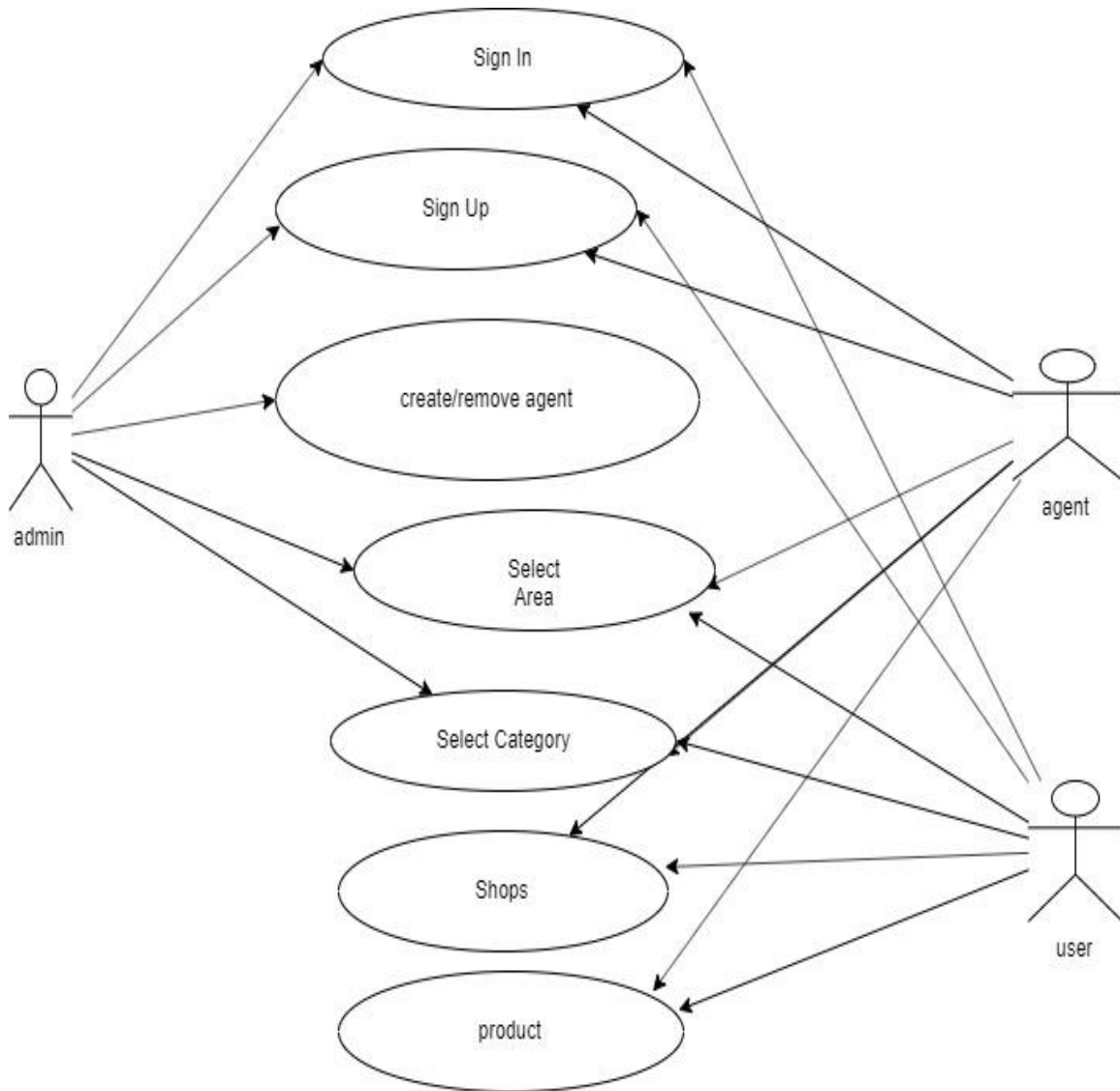
Figure:3.2.1:use-case Diagram

CHAPTER 4: SYSTEM DESIGN AND IMPLEMENTATION

4.1 Development Methodology

Our proposed online website TailorApacovered all sorts ofproducts choosing and custom order of your dress and dress/body size.This site can use any sort of user.Such as 1.Admin 2.User.

When an admin logged in the system he/she can take access to the whole system.Users/ Customers can access products and custom Order.

In the front-end, it has a navigation bar where to exist home button,category option,area and login,registration option.In the back-end, it is used the database to store all system data.

In any software development, there are some rules to follow. In this development, methodology indicates that. First of all, we have to analyze the problem. Then make the design to create the software. At next we have to code and test the software if there is no bug we found we have to formalize the solution and maintain the program.

From admin dashboard admin can add per product making cost and this information will sent to the all user dashboard. User can see the information and can take a decision.

The Front-end part and backend part are scaffolding with Laravel blade templating engine. This awesome feature come from Laravel and that's why we can easily intregate the frontend file with backend.

4.2 Website Design

For any kind of website their, some tools and language exist.Basically, HTML,CSS,Bootstrap Framework,jQuery is use for structural design of a website/system.For designing this website we also use some tools and frameworks like that. Obviously our

Backend code for framework was PHP.

4.2.1 Front-End Design

- HTML
- CSS
- Javascript
- Bootstrap
- Jquery

4.2.2 Back-End Design

- Laravel
- PHP
- Javascript
- Bootstrap
- Apache (For Local Server)

4.2.3 Database Design

- PHPMyAdmin

©Daffodil International University

- My SQL

Git& Co-Working Solution

- Github

- Github Issue Tracker
- Github Action
- Github Deployment
- Github Project

CHAPTER 5: TESTING AND DISCUSSION

5.1 Testing

In this process, the whole system is investigated and track whether there is error or bugs in the system.we have tested our system in multiple ways. These processes are given below:
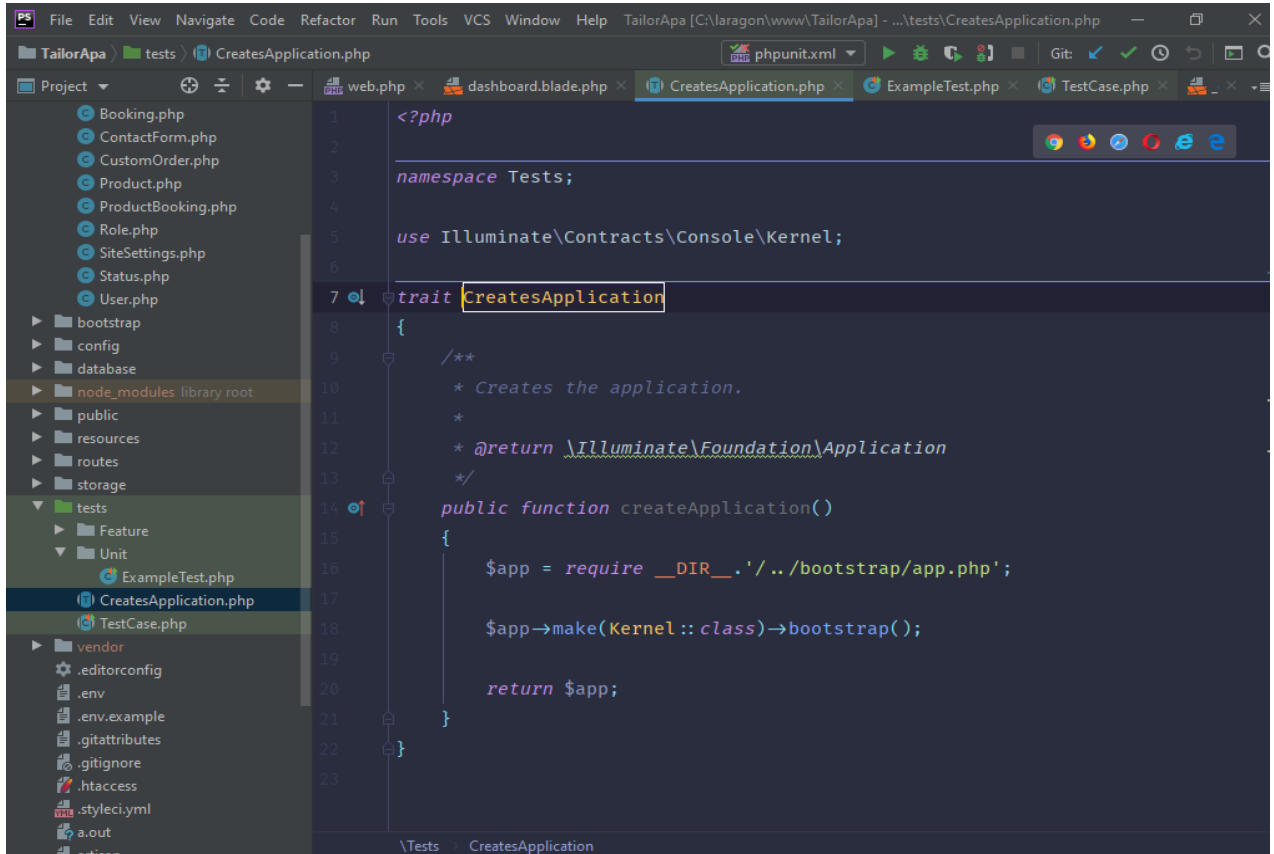
5.1.1 Usability Testing

Usability testing is a process where user interface is easy too use or not. We have to create an easy interface that can control all kinds of user. So remove the bug that we face the first time we have to solve.
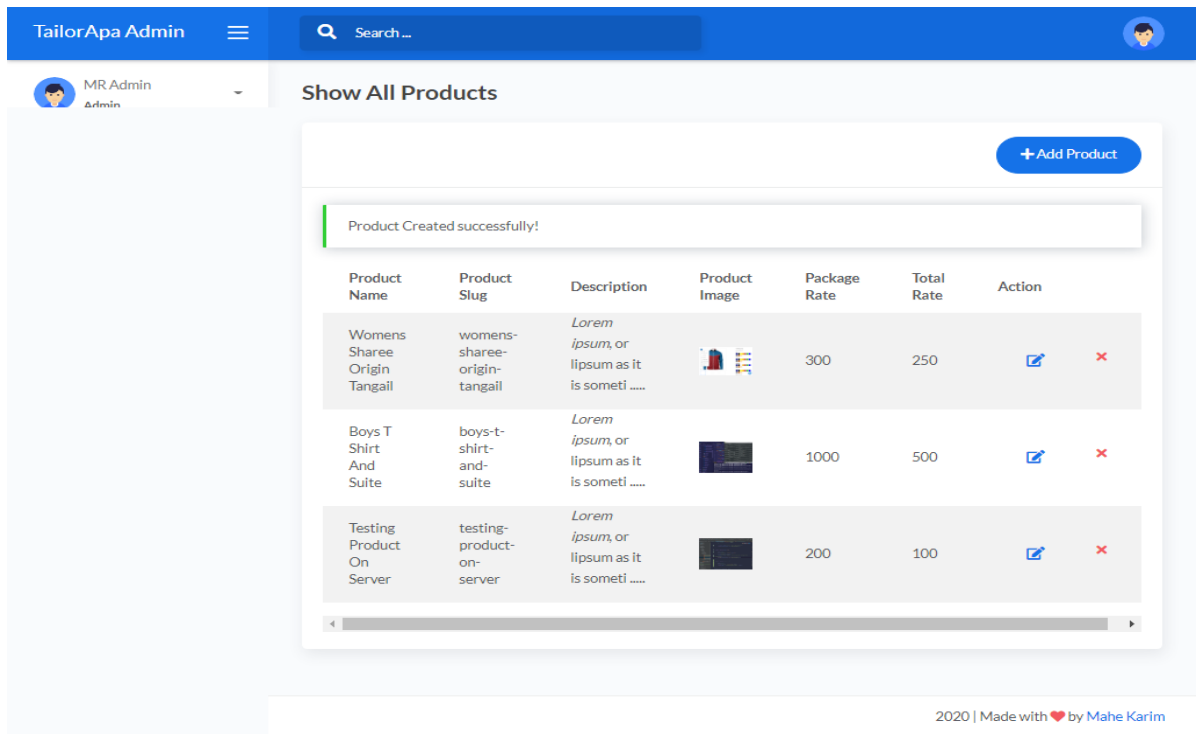
Figure 5.1.1 usability testing

Laravel has built-in testing solution. Slelcting a framework like Laravel there is one more reason. This framework made our work so easy. We have pre built system and configuration that we can use so easily.

Figure 5.1.2 usability testing

We fixed the database, backend, routing system, basic security systemand make sure that this is bug free platform.

```
C:\laragon\www\TailorApa (master -> origin)
λ php artisan route:list
+--------+-----------+------------------------+---------------------+---------------------------------------------+
| Domain | Method    | URI                    | Name                | Action                                      |
|        |           |           Middleware   |                     |                                             |
+--------+-----------+------------------------+---------------------+---------------------------------------------+
|        | GET|HEAD  | /                      | frontEndRoot        | App\Http\Controllers\FrontendController@ind |
expage  |           |            | web       |                     |                                             |
|        | GET|HEAD  | add/product            | addProduct          | App\Http\Controllers\ProductController@add  |
|        |           |            | web       |                     |                                             |
|        | GET|HEAD  | admin                  |                     | Closure                                     |
|        |           |            | web       |                     |                                             |
|        | GET|HEAD  | admin/api/log-reader   |                     | Haruncpi\LaravelLogReader\Controllers\LogRe |
aderController@getLogs |        | web,auth,admin |                |                                             |
|        | GET|HEAD  | admin/dashboard        | admin.dashboard     | App\Http\Controllers\Admin\DashboardControl |
ler@index |           |            | web,auth,admin |                |                                             |
|        | GET|HEAD  | admin/delete/user/{id} | admin.deleteUser    | App\Http\Controllers\Admin\DashboardControl |
ler@destroy |         |            | web,auth,admin |                |                                             |
|        | POST      | admin/export-user      | admin.export.onlyUser | App\Http\Controllers\Admin\DashboardControl |
ler@exportUser |      |            | web,auth,admin |                |                                             |
|        | GET|HEAD  | admin/log-reader       |                     | Haruncpi\LaravelLogReader\Controllers\LogRe |
aderController@getIndex |       | web,auth,admin |                |                                             |
|        | POST      | admin/log-reader       |                     | Haruncpi\LaravelLogReader\Controllers\LogRe |
aderController@postDelete |     | web,auth,admin |                |                                             |
|        | POST      | admin/password/change  | admin.changepaswword | App\Http\Controllers\Admin\ProfileControlle |
r@passChangeReq |     |            | web,auth,admin |                |                                             |
|        | GET|HEAD  | admin/password/change  | admin.change.password | App\Http\Controllers\Admin\ProfileControlle |
r@passChange |        |            | web,auth,admin |                |                                             |
|        | GET|HEAD  | admin/settings         | admin.settings      | App\Http\Controllers\Admin\SiteSettingsCont |
roller@index |        |            | web,auth,admin |                |                                             |
|        | POST      | admin/settings-update  | admin.settings.store | App\Http\Controllers\Admin\SiteSettingsCont |
roller@store |        |            | web,auth,admin |                |                                             |
|        | GET|HEAD  | admin/show/all_user    | admin.showAllUser   | App\Http\Controllers\Admin\DashboardControl |
ler@showAllUser |     |            | web,auth,admin |                |                                             |
|        | GET|HEAD  | api/user               |                     | Closure                                     |
|        |           |            | api,auth:api |                 |                                             |
|        | GET|HEAD  | booking-show           | bookingShow         | App\Http\Controllers\BookingController@show |
booking |           |            | web       |                     |                                             |
|        | GET|HEAD  | booking/confirmation/{id}/done | booking.confirmation | App\Http\Controllers\BookingController@book |
```

Fig: 5.1.3 – Bug Free Routing System

©Daffodil International University

CHAPTER 6: CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

Nowadays people are depended on the Internet.But they can want everything within a short time.Our website helps them to find out the discount on their expected product in their expected area.Who are starting their new business and wants the maximum reach of their area based customer,this website might help them. Not only area based this website will help the customer for who are more concern about their privacy. From home they can order their dress, custom dress. Our delivery boy will sent their products to home. Before reach the product to home user can see the dress making progress status from their dashboard.

6.2 Scope for further Development

Now on our website, there are very few options.But in the future, we will add many options like

- Review option
- Social media sharing option
- Premium membership
- Deep learning
- User reminder facility
- Sell and buy option through Bkash, Rocket
- Android app facility.
- Push Notification To All Member.
- More Dynamic & Efficient Dashboard For Realtime Data
- Fully e-commerce platform
- Automated task and agent system.

Hope this awesome feature will help to our user to make comfortable while they browse our website and purchasing product.

References

1. ER diagram [https://www.draw.io]

2. Laravel Documentation [http://laravel.com]

3. Laracast [http://laracast.com]

4. Use case modeling [https://www.draw.io]

5. Backend template - [https://themehunt.com/item/1527584-atlantis-lite-bootstrap-4-admin-dashboard?fbclid=IwAR2jYwLvmmxCXho41bMLrPb6jBxjSJmxSi5kR3kcAs_-zN7fDwQJIiWS5Go][last accessed 20-9-20]

6. Front-end template – [themeforest.net]

7. Coding problem – [stackoverflow.com] [last accessed 20-9-20]

8. LaraShout [http://larashout.com]

9. SQL Table Dimension [https://drawsql.app]

Plagarism Report

Turnitin Originality Report

Processed on: 13-Oct-2020 13:30 +06

ID: 1413763927

Word Count: 2632

Submitted: 1

163-15-8375 By Sanjida Alam

Similarity Index

18%

Similarity by Source

Internet Sources: 16%
Publications: 1%
Student Papers: 17%

5% match (student papers from 07-Apr-2018)
Class: Article 2018
Assignment: Journal Article
Paper ID: 942476855

3% match (Internet from 06-Aug-2020)
http://dspace.daffodilvarsity.edu.bd:8080/bitstream/handle/123456789/4103/P15428%2826_%29_.df?
isAllowed=y&sequence=1

1% match (student papers from 26-Nov-2019)
Submitted to St. Petersburg High School on 2019-11-26

1% match (student papers from 22-May-2019)
Submitted to Daffodil International University on 2019-05-22

1% match (Internet from 09 Jun 2020)

©Daffodil International University

1% match (student papers from 26-Nov-2019)
Submitted to St. Petersburg High School on 2019-11-26

1% match (student papers from 22-May-2019)
Submitted to Daffodil International University on 2019-05-22

1% match (Internet from 08-Jun-2020)
http://dspace.daffodilvarsity.edu.bd:8080/bitstream/handle/123456789/3677/P13397%20%2824%2 %29.pdf
isAllowed=y&sequence=1

1% match (student papers from 02-Apr-2019)
Submitted to Daffodil International University on 2019-04-02

1% match (Internet from 21-Sep-2018)
http://dspace.library.daffodilvarsity.edu.bd:8080/bitstream/handle/20.500.11948/2730/152-15-
5887.pdf?isAllowed=y&sequence=1

1% match (student papers from 22-May-2019)
Submitted to Daffodil International University on 2019-05-22

1% match (student papers from 20-Jan-2013)
Submitted to Middle East College of Information Technology on 2013-01-20

1% match (student papers from 29-Oct-2019)
Submitted to Manchester Metropolitan University on 2019-10-29

1% match (student papers from 23-Mar-2012)
Submitted to Manchester Metropolitan University on 2012-03-23

< 1% match (student papers from 09-May-2011)
Submitted to University of Surrey Roehampton on 2011-05-09