

INTERNSHIP AS “WEB DEVELOPER” IN POPULAR IT LIMITED

BY

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

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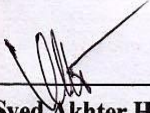
DHAKA, BANGLADESH

May, 2019

APPROVAL

This internship titled “**Web Developer in Popular IT Limited**”, submitted by Shafayat Husain, ID No: 142-15-3650 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 2nd May, 2019

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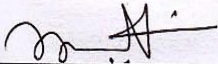
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I hereby declare that, this internship has been done by me under the supervision of **Nusrat Jahan, Lecturer, Department of CSE** Daffodil International University. Again I declare that neither this internship nor any part of this activity has been submitted elsewhere for award of any degree or diploma.

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Finally, I must acknowledge with due respect the constant support and patience of my parents.

ABSTRACT

Internship as a “Web Developer”, Work with new web technology and gaining of the knowledge to develop a big project have been widely discussed in the internship period. Working experience with various project and on huge team is totally different in environment as we think generally. Duties of a Web Developer or programmer and co-operational working procedure have been discussed fully in this report. Working experience with HTML, CSS, JS, PHP and WordPress among various web technology like- JS(ES6; AngularJS; ReactJS; VueJS etc.), PHP(Laravel; CodeIgniter, Symphony; Magento; Yii; Cake PHP etc.), CMS (WordPress; Joomla etc.) have been focused in the discussion. How a large team work collaboratively and co-efficiently by following a special working model is also discussed in the report. There are many layers and system steps of a project development. Which layer I’ve worked with and my experience with that layer and system has been discussed. Mainly my work of developing Newspapers, E-Commerce and many more dynamic Websites have been fully discussed. Development of frontend with backend system and gaining knowledge of being a full stack web developer has been discussed slightly.

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INTRODUCTION

1.1 Introduction

The internship was about front desk work experience with the modern web technologies from the very first or the scratch such as HTML, CSS, JS, JQuery, PHP and other languages and an introduction to web based application development with the demand of current age and the client satisfaction. This internship will involve dynamic and challenging opportunities and help to trace the best career for the 21st century. This is a great opportunity to gain hands on hands experience on web application development and step to the first stair in huge ERP or Application Development.

1.2 Motivation

I worked with an internship program to develop myself for creating the best career as a web application developer or a web programmer. I believe that this career is the most powerful career in this 21st century. Again this job has a super dynamic environment that will help me to grow more in the next decade and will help me to create a start-up. They helped me and the other employee in learning new technologies, strategies and various ideas those will help for the growth of any company and the best team. Again that may help Seeking for a challenging and creative job in a dynamic and a better work place where I can use my strong technical knowledge and skills.

1.3 Internships Objective

I've gained the knowledge about web technology and a major area of web programming languages. There was a perception that was the importance of the web sites and mobile applications for the Institutions, Businesses, Brandings, Personals, Spreading the News, Discussions, Communication and the other purposes is so much what is hard to describe in words. I've experienced on the office environment for express my career in the future. I realized the strength of team work. That internship increased my sense and responsibility and good work habits maintaining the time line. Now I can implement my innovative ideas, skills and creativity for develop my career in the best job sector in the world.

1.4 Introduction to the Company

Journey Begins of Popular IT Limited (2009)-

Popular IT Limited begun its journey as a conventional IT company in 2009 by a born dream walker. After 2 years it starts the journey as another country office in Hong Kong in 2011 and runs more than 3 sister concerns within 2017.

Further steps of being one of the best IT company-

Popular IT started 2011 in Hong Kong but won the “Hong Kong ICT Award” in 2013 by proving the best dynamic and fast IT services in Hong Kong. In November, 2011 it started a new sister concern “Popular Server” with new ideas and dreams to provide the hosting facilities in reliable price. After that Popular IT becoming one of the most popular IT company in Bangladesh and abroad. Now Popular IT has more than 450 clients in all over the world. It creates its another sister concern “Themes Bazar” in 2017 and this is the first and only Bangladeshi themes market place like “Envato Theme Forest” with various WordPress and other themes in a single place.

1.5 Business Background

Popular IT runs the business from the 2009 with a tiny dedicated team. But it runs another country office within two year in Hong Kong. Separately It runs another two sister concerns within next few years as a CEO concern of Md. Helal Uddin successfully. Spread the services among all over the world and creates more than 450 customers from the home and abroad.

Vision

To achieve the highest level of IT services. Ensuring the reliable IT services and making Bangladesh develop in ICT sector.

Mission

Their mission is to deliver IT services fast, hassle free and fair. To give the guarantee of the best server ever. Reaching to all the people of Bangladesh to introduce the benefits of ICT and spreading the knowledge among the citizen by providing best quality IT training.

1.6 Report Layout

A report design is an archive that goes about as a format or visual that characterizes the standpoint of a report. A report format will normally utilize tables to organize content, where the report contains information fields, content or picture.

Discussion on Chapter 1-5

- In the ‘Chapter-1’ I have discussed about the motivation, Objectives and the Introduction of the company where I completed my Internship.
- In ‘Chapter-2’ I’ve discussed all about the organization where I’ve done my Internship. I also described about Introduction of the organization, product and market situation, Target group, SWOT analysis and organizational Structure.
- ‘Chapter-3’ is all about the daily tasks and activities, events and activities I’ve challenged, My Projects tasks activities and the challenges faced in the internship.
- In ‘Chapter-4’ there discussed about the earning of competencies, creating of smart plans and reflectionsof the organization.
- In ‘Chapter-5’ I’ve discussed about the conclusion of the internship and the expected future career by the gained knowledge from the organization.

CHAPTER2

ORGANIZATION

2.1 Introduction

Popular IT Limited since its inception in 2009, has given the best IT services like Web Development, Mobile Application Development, Game Development, ERP, CRM, POS, E-Commerce Solution, IOT, Domain-Hosting Service, ICT training. Popular IT has the first and only theme market place(<https://www.themesbazar.com>) in Bangladesh. Themes bazar has more than hundreds free and premium web templates, WordPress, Joomla and other themes. Popular IT works with the modern web and mobile app development technology.

2.2 List of Products and Services

- Quality Training on Web Development and Database Development.
- Freelancing and other ICT Training.
- Print on Demand Services and Training.
- Logo and Graphic Design Services.
- Lead Generation and SEO Services.
- Modern Web Site Design and Development with latest trend.
- Mobile Application Development.
- Web and In-App Payment Gateway Services.
- Web Security Services.
- WordPress Themes and other CMS Development.
- E-Commerce Solutions and Management.
- ERP, CRM, Payroll Software Development.
- Biometric Device Attendance System.
- VPS and Cloud Server Services.
- Shared Hosting and Domain Services.
- Reseller Hosting Services

2.2.1 Related Products I Worked with

Products: E-Commerce and WordPress Theme, ERP Software, Business Website.

Description: E-Commerce Website and Employee management system for Sailor Fashions Limited. News One and News Light WordPress Themes.

2.2.2 Market Situations

Popular-IT has created the most valuable market situations for their fair and fast services with reliable costing. Popular-IT gives the services of various training of Computer. And in this present age this has a lot of possibilities among the modern business competitions. Again the training of ICT such as Web Design, Web Development, Graphic Design, Logo Design, Lead Generations, SEO, Server Management and Trendiest ICT service Print on Demand.

These training service only provide at most twenty or thirty company in the Dhaka City but they are not all classified or quality based. But Popular-IT serves with the quality and the best mentor for the topic.

Recently Popular-IT serves the VPS server and this has created the most valuable market situations for the company. Again Themes Bazar the only and first market place for the WordPress and other themes in Bangladesh. And Themes Bazar has created huge customers within a few months. It's selling Themes and Plugins among the whole Asian Subcontinent presently and in future it'll spread all over the world like themeforest of Envato market.

2.3 Target Group

- New companies or business is a great target for making their web sites, Online management systems, bio metric attendance system etc.
- New newspapers for making the online portal and live broadcasting system.
- New hospitals and other enterprises to help them to build their web sites, mobile applications, management systems, bio metric attendance device, Online marketing etc.
- Individuals for making their portfolios and mobile application.

2.4 SWOT Analysis

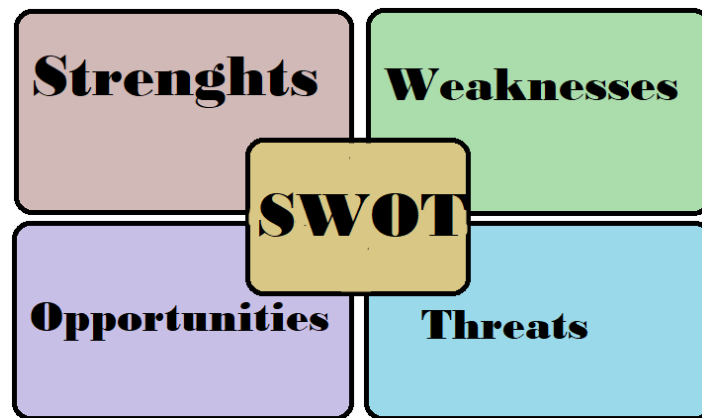


Figure 2.4.1: SWOT Analysis

Strengths

- The company has stability to make difference comparing other IT company.
- Best server and hosting providing.
- Best ICT training in the city.
- Print on demand services for the first time and only in Bangladesh.
- Best web design and development Services following the new trend.
- Best mobile applications services.
- Ensuring the security tokens is another strength for the company.
- First themes market place in the country.
- Fair and reliable services.

Weakness

- Business team management.
- Small number of staff can hamper the productivity.
- Lagging of huge project management.
- Critical situation handling.
- Print on demand services is a new service in Bangladesh.

Opportunities

- Print on demand services for the first time in Bangladesh.

- Making a difference for the Bangladesh with Themes Bazar like Envato market.
- Opponents aren't able to run with its service area.
- Working with the trendy technology can bring more satisfactions.
- People are tensed with fair service but Popular-IT ensures that.
- Themes Bazar can make a vast employment area in the next decade.

Threats

- Working with new technology needs to make new team learning.
- New technologies create the hard problem sometimes to solve.
- Some companies are working hard to reach the point.

2.5 Organization Structure

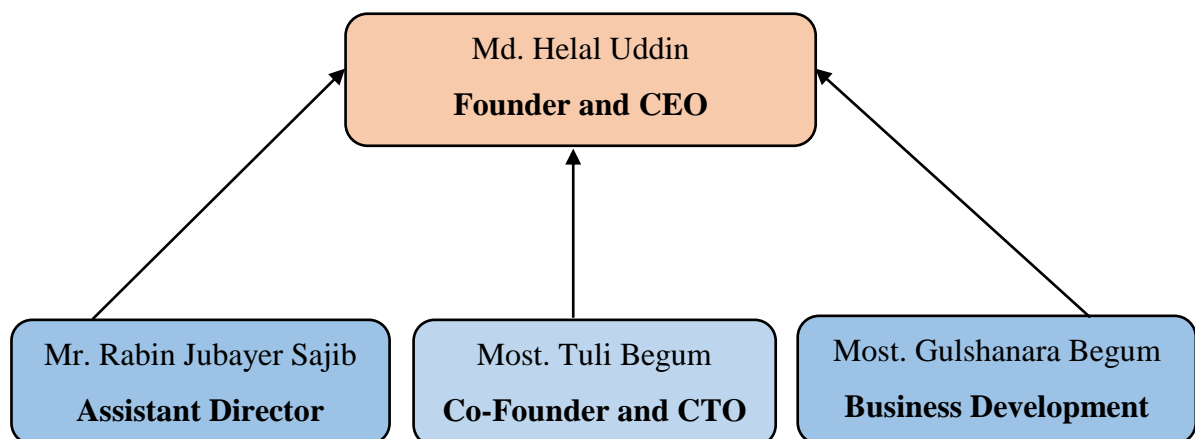


Figure 2.5.1: Organization Structure Diagram

CHAPTER 3

Tasks, Projects and Activities

3.1 Daily Task and Activities

Office starts at 09.30 am and ends at 06.00 pm regularly 6 days in a week. In that time period I had many task to do with.

- Starting with basic web site design with HTML5, CSS3, JS and Bootstrap.
- Tracing the error for the designs and fixing them.
- After 1 month I faced a project of WordPress theme customization and development for the clients with the co-operation of Durbin Labs Limited.
- After 2 months I had worked with an E-Commerce website in the co-operation of Durbin Labs Limited.
- Learning new technologies and new creative and outstanding design continuously.
- Hand to hand experience on big projects and the knowledge of finishing the job maintain by the timeline.

3.2: Events and Activities

This internship helps me to learn the new languages and technologies within a short time. That helped me to make myself well known with the IT event management and other activities within the scheduled timeline. The internship helped me to develop my experience on hand to hand projects and heal me to develop my resume and portfolio.

There was a challenge for every project I developed in my Intern Period. Those challenges were following the timeline, making the outstanding projects, bring the customer satisfaction, Ensuring the no need more revisions on the projects.

Again there was a nice environment for learning and working in a friendly mind set co-operational platform. That helped to gain the experience to work in suit myself in any kind of work place and organization.

3.3: Project Task and Activities

The primary aim of this Internship was to learn Web Development and Web based Android application for the Industries. So I worked with an E-Commerce System, several web sites, Themes and Web based Android Application.

E-Commerce site and Whole Management system development

Languages Used

- HTML5 and CSS3 for making the skull or Front-End and colorized the site.
- WordPress as the CMS for development for the site.
- PHP as the server site language.
- Redux framework for beautify the dashboard



Figure 3.3.1: First/Front Page of the News Portal

Features of Front Page

- All menu items and the search box.
- Menu for the easy navigation of all the sections.
- Search box for search any items or the news.
- Carousel for increasing the front end value.
- Section for latest news scroll box.
- Logo and others.



Figure 3.3.2: Category View of the News Portal

Features of Category View page

- All the news from one category in a column.
- Easy way to find news of specific category.
- Advertise section for extra revenue.
- Latest and popular news section in a tabbed view.

🏠 / এক্সক্লুসিভ, বিনোদন

রাঙ্গামাটি পার্বত্য জেলা পরিষদের বার্ষিক বনভোজন

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প্রতি বছরের ন্যায় এবছরও রাঙ্গামাটি পার্বত্য জেলা পরিষদের আয়োজনে বার্ষিক বনভোজন-২০১৯ অনুষ্ঠিত হয়েছে। এ উপলক্ষে শুক্রবার (০১মার্চ) সকালে কেন্দ্রীয় শহীদ মিনার জলয়ান ঘাট থেকে জেলা পরিষদের সকল কর্মকর্তা, কর্মচারী, পরিষদের হস্তান্তরিত বিভাগ ও বিভিন্ন প্রতিষ্ঠানের কর্মকর্তা এবং স্থানীয় সাংবাদিকদের নিয়ে বালুখালী হটিকালচার সেন্টারে এক বনভোজনের আয়োজন করা হয়। বনভোজনে প্রধান অতিথি হিসেবে উপস্থিত ছিলেন, রাঙ্গামাটি পার্বত্য জেলা পরিষদ চেয়ারম্যান বৃষ কেশু চাকমা, বিশেষ অতিথি হিসেবে রাঙ্গামাটি জেলা প্রশাসক একেএম মামুনের রশিদ, জেলা পরিষদের সাবেক চেয়ারম্যান চিৎখিউ রোয়াজা, নিখিল কুমার চাকমা, জেলা পরিষদ সদস্য হাজী মোঃ মুছা মাতব্বর, পরিষদ সদস্য ত্রিদীপ কান্তি দাশ, পরিষদ সদস্য খোয়াই চিংমং মারমা, রেমলিয়ানা পাংখোয়া, জ্ঞানেশু বিকাশ চাকমা, জেলা পরিষদের সাবেক সদস্য সবির কুমার চাকমাসহ বিভিন্ন প্রতিষ্ঠানের কর্মকর্তাগন। বনভোজনে শিশু-কিশোর, মহিলা ও অতিথিদের মধ্যে বিভিন্ন ক্রীড়া প্রতিযোগিতা ও র‍্যাফেল ড্র প্রতিযোগিতা অনুষ্ঠিত হয়। পরে দুপুরে উপস্থিত সকলের মাঝে খাবার পরিবেশন করা হয়। সাংস্কৃতিক অনুষ্ঠানে স্থানীয় শিল্পীদের পাশাপাশি পরিষদের কর্মকর্তারা সঙ্গীত পরিবেশন করে। সাংস্কৃতিক অনুষ্ঠান শেষে অংশ গ্রহনকারী সকল ক্রীড়া প্রতিযোগি ও র‍্যাফেল ড্র বিজয়ীদের মধ্যে পুরস্কার বিতরণের মধ্যে দিয়ে অনুষ্ঠানের সমাপ্তি ঘটে।

শেয়ার করুন

বাঘাইছড়ি হত্যাকাণ্ডের জড়িত থাকার ২জনকে আটক করেছে

রাঙ্গামাটির মেয়ে পনি চাকমা সেরা পাচের একজন

জাতীয় স্বাধীনতা ২৬ মার্চের মধ্য দিয়ে ১৬ ডিসেম্বর বাংলাদেশের পূর্ণ বিজয়

জানহীন মানুষের হাতেই শুরু শিক্ষা ও সাক্ষরতা

রাঙ্গামাটিতে আওয়ামীলীগ নেতা সুরেশ কান্তি খুনের মামলায় একজন গ্রেফতার

পানছড়ি উপজেলা পরিষদ নির্বাচনে বে সুরকারী ফলাফলে বিজয়ী যারা

পানছড়িতে মানববন্ধন ও বিক্ষোভ সমাবেশ করেছে পার্বত্য বাঙ্গালী অধিকার ফোরাম ও

আমাদের ফেইসবুক পেজ

Devs Home

Liked 57 likes

You and 31 other friends like this

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Figure 3.3.3: Single News View of the News Portal

Features of Single News View

- All the details reading facilities.
- Tabbed showcase is also present there.
- Advertise section for extra revenue.
- News sharing option on various social site.

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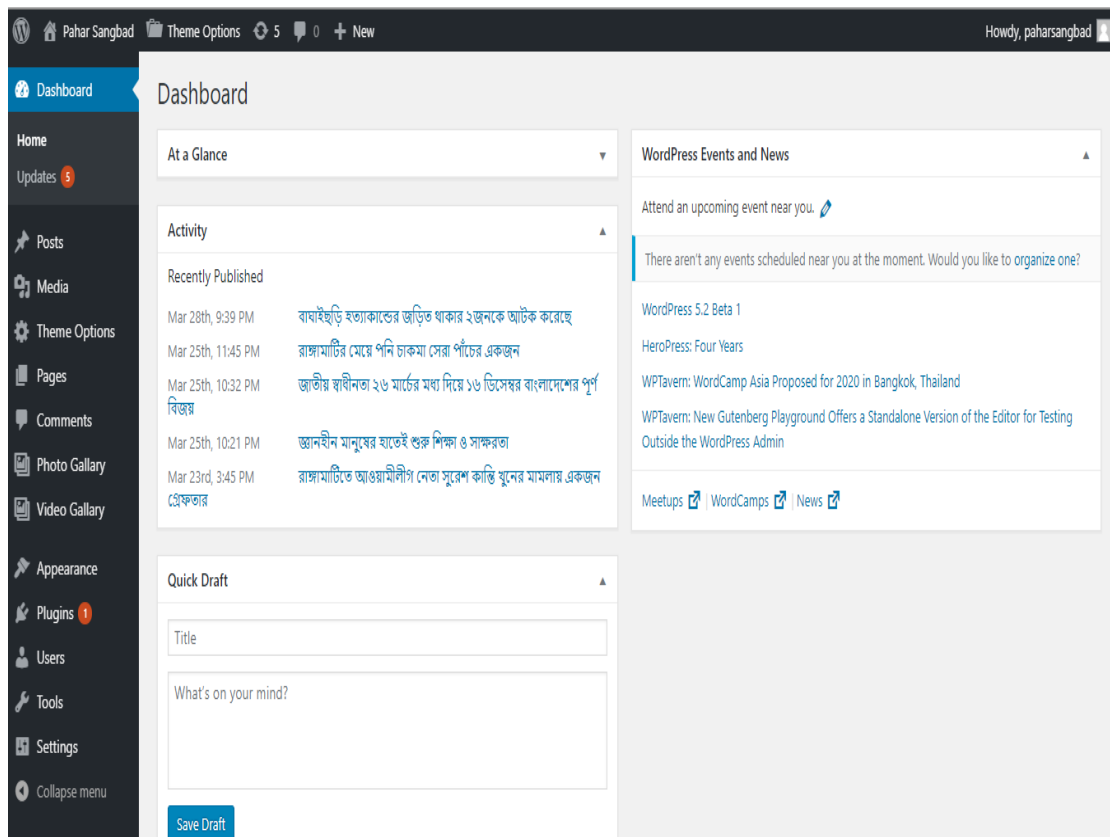


Figure 3.3.4: Admin Panel/Dashboard of WordPress

Admin Panel or Dashboard Features

- Admin can post the news.
- Clean and easy interface of the default WordPress dashboard.
- Admin can add or set multiple moderator or editor.
- Admin can delete or modifying the news.
- Admin can set the roll of the admin panel users.
- Admin can change and organize the view and section.
- Admin can save the news as drafts.
- Admin can update or reset the system.

Management system development of a shop(Co-operational Work)

Languages Used

- HTML5 and CSS3 for making the skull or colorized the site.
- Semantic-UI for designing perfectly for all the device optimization.
- Core JS for developing the functionality and Interactive features.
- PHP for the server side language.

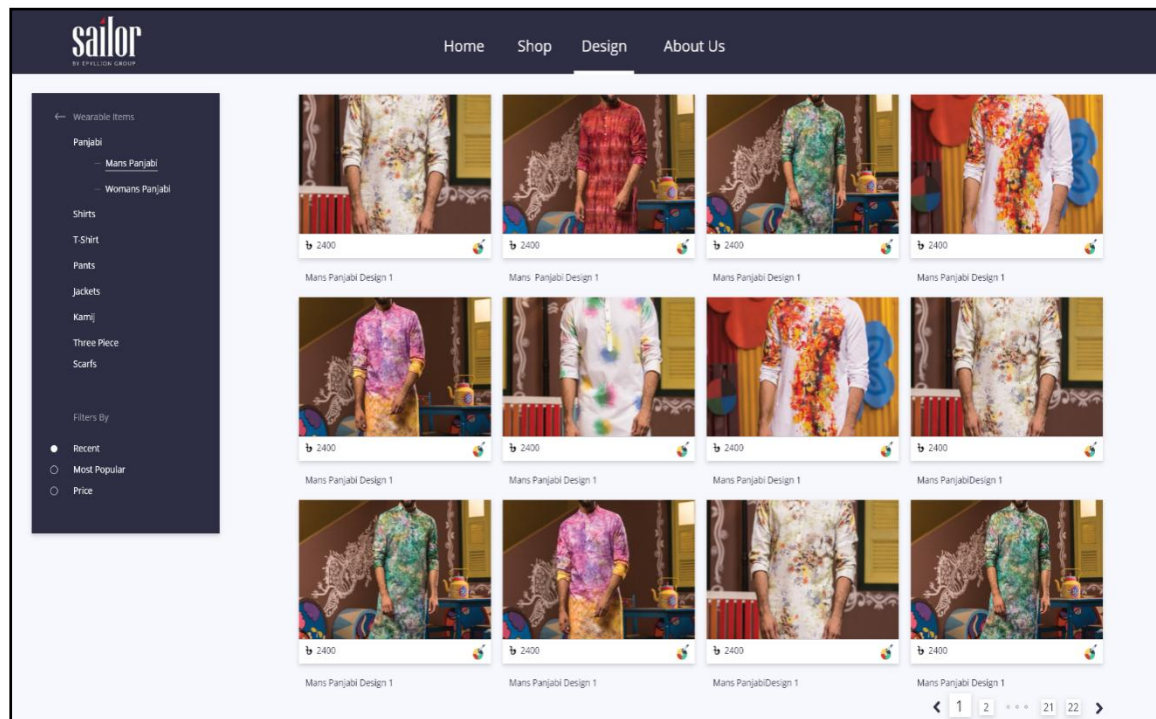


Figure 3.3.5:Front End (Products)

Front End Features

- Customers browse and select the products
- Adding to the cart.
- Order and receive the invoice.
- Edit the cart before the final order.
- Check products availability.
- Can add payment methods and pay through the system.

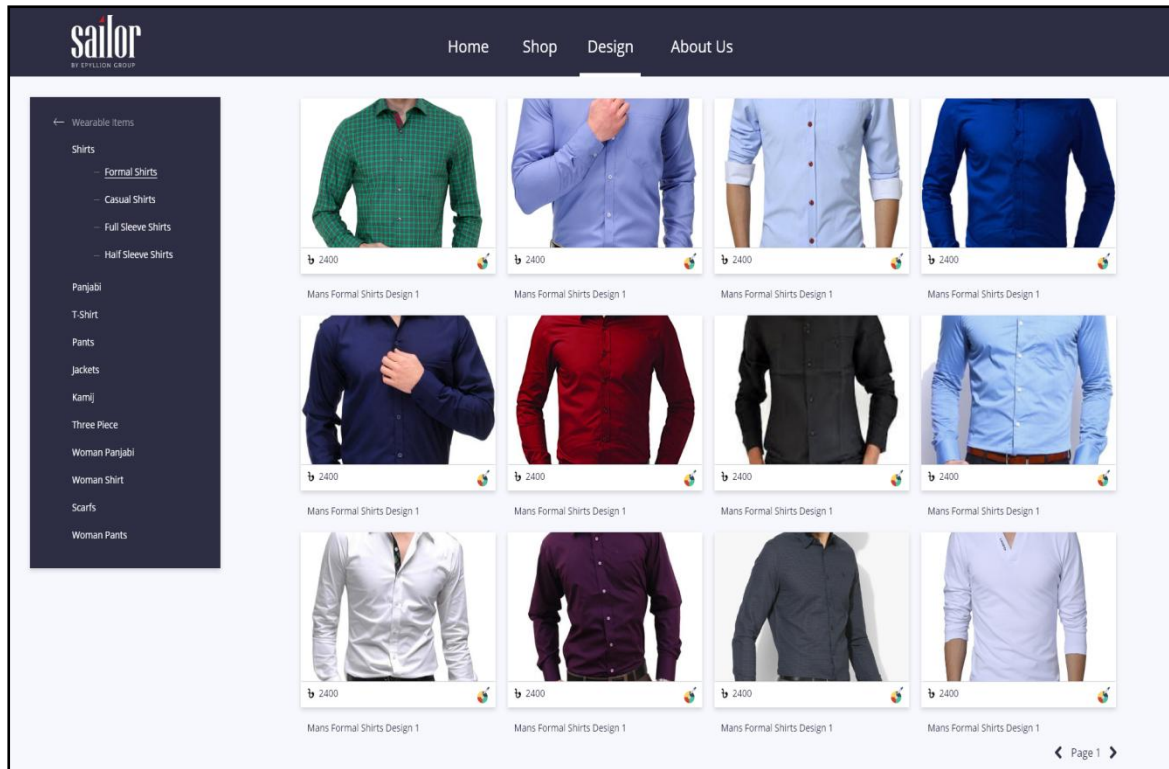


Figure 3.3.6: Front End-2 (Products)

More Front End Features

- Search and choose multiple product.
- Can add multiple products in a single order cart.
- Can delete the products from the cart before the checkout.
- Can change the page of same category products.
- Customers can contact with the sellers through the communication box.
- Apply coupon code and receive the offers.

Table 3.3.1: Other Front End Features

Other Front End Features	Present in this system
Create User Account	Yes
Delete and modify User Account	Yes
All time Order/Purchase History	Yes
Live chat with the shop manager	No
Web RTC	Yes
B2B Feature	No
Cancel order done by mistake	Yes(Within 10 Minutes)

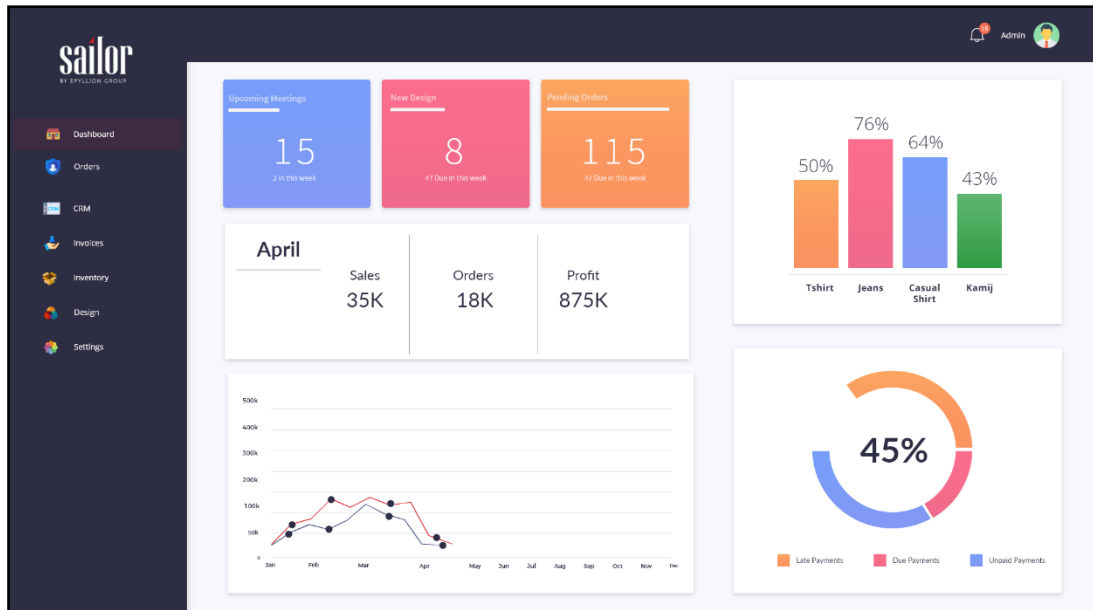


Figure 3.3.7: Back End Page-1 (Dashboard)

Back End Page-1 Features

- Admin can know the details status of the total selling and stocks.
- Can know the information on monthly basis.

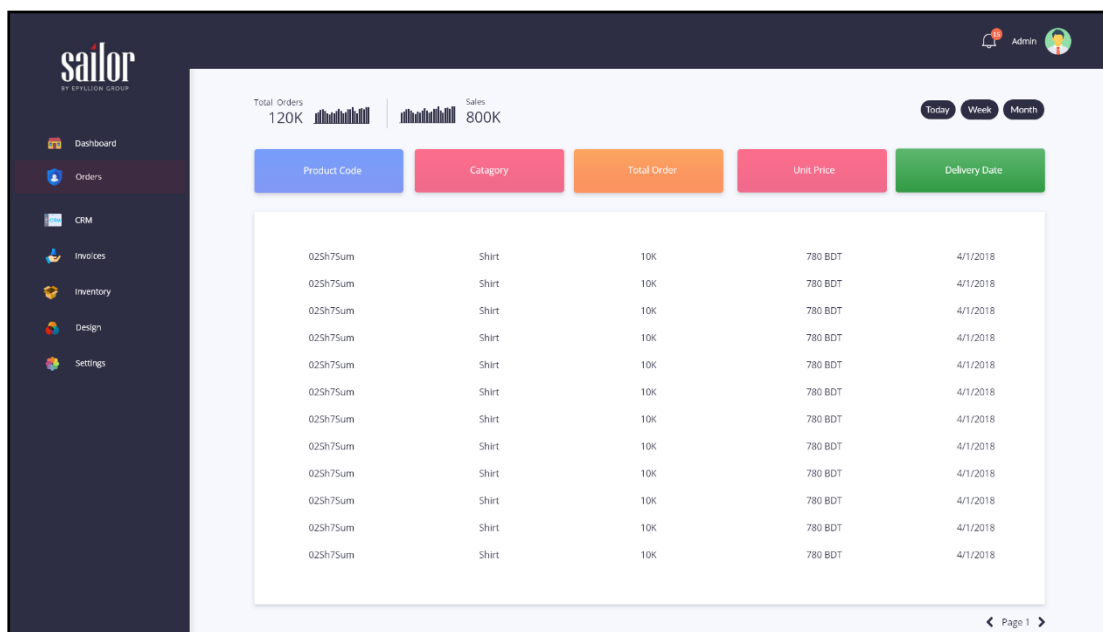


Figure 3.3.8: Back End Page-2 (Orders)

Back End Page-2 Features

- Admin can receive all orders of customers, check, validate and deliver.

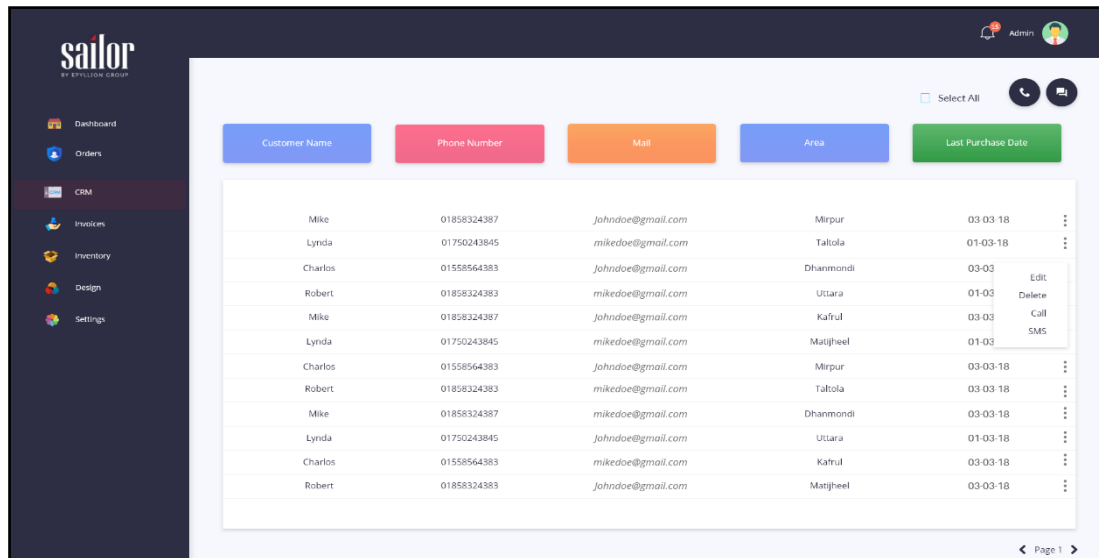


Figure 3.3.9: Back End Page-3 (CRM)

CRM Features

- Admin can check all the client or customers list and their address.
- Admin can get the contact address and mobile number to call them.

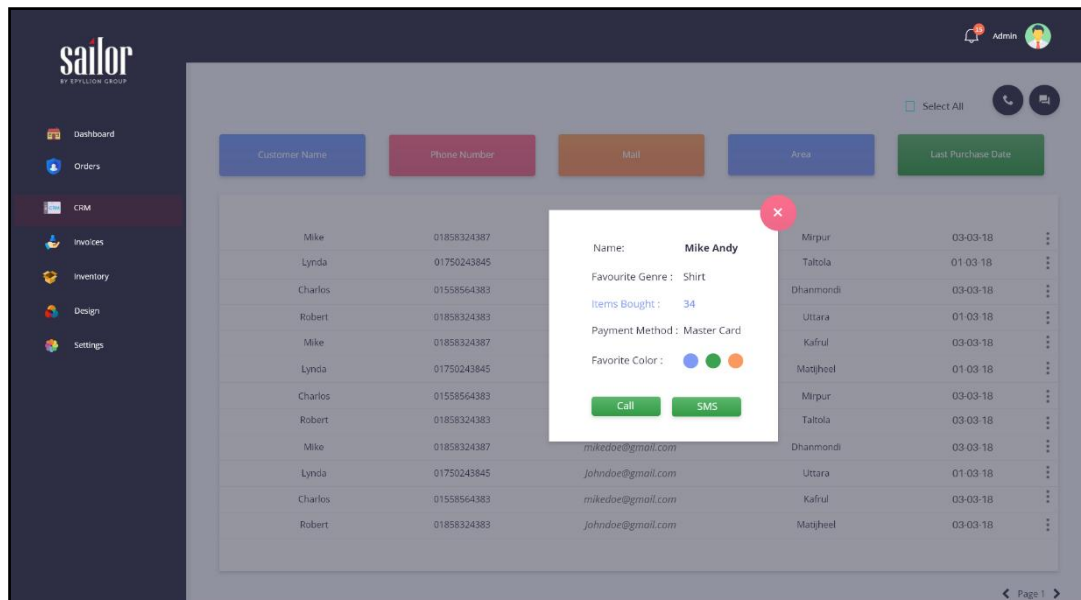


Figure 3.3.10: Back End Page-3 (CRM-2)

CRM-2 Features

- Admin can get the details on a pop-up by clicking on the client name.
- Admin can call or message the customer through the pop-up.

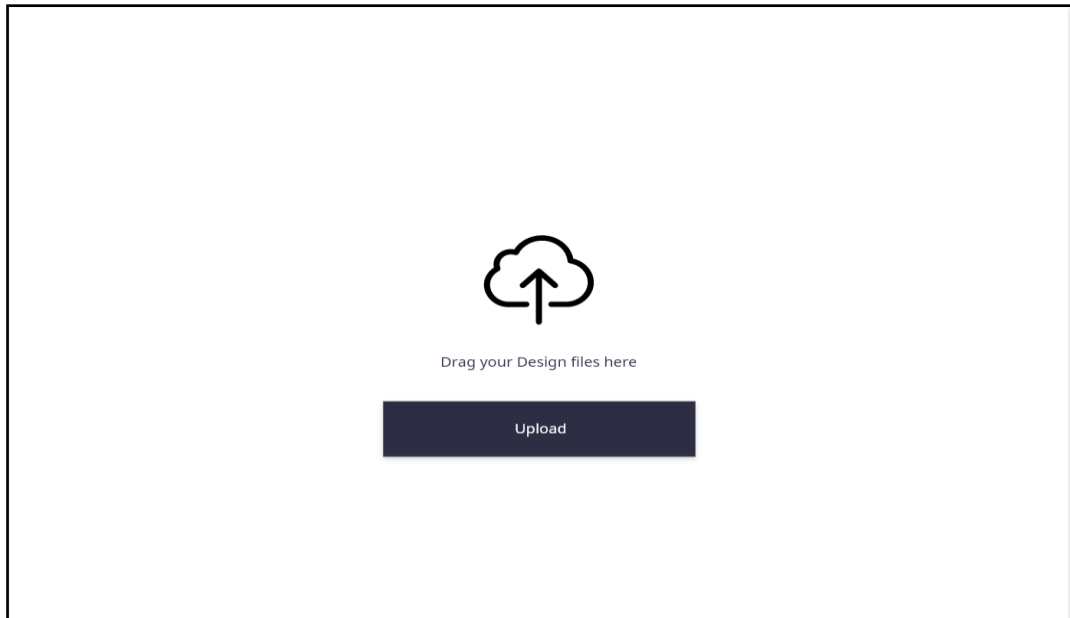


Figure 3.3.11: Back End Page-4 (Product Upload)

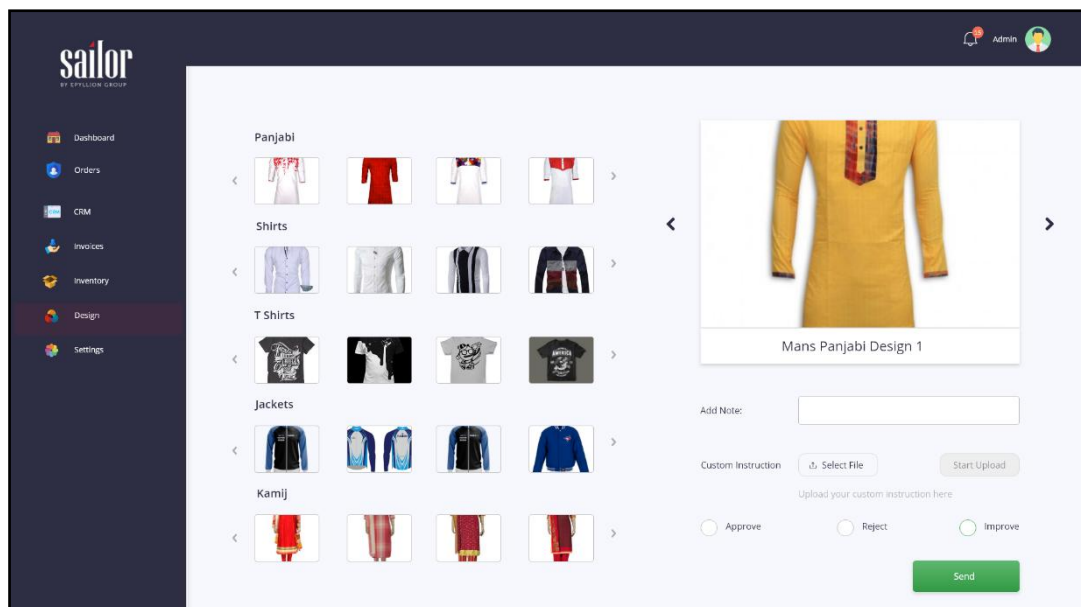
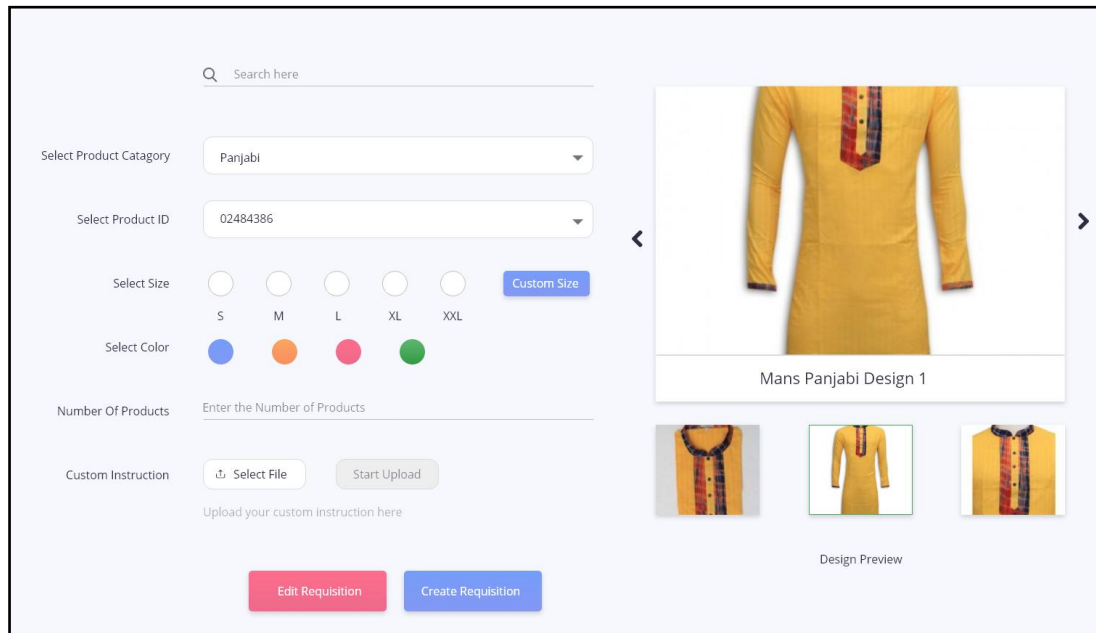


Figure 3.3.12: Back End Page-4 (Product Upload-Design Select)

Product Upload Features

- Admin can upload multiple products.
- Admin can select multiple designs in the upload section.
- Admin can assign all the sizes available.



The screenshot displays a product upload form with the following elements:

- Search:** A search bar with the placeholder text "Search here".
- Select Product Category:** A dropdown menu currently showing "Punjabi".
- Select Product ID:** A dropdown menu currently showing "02484386".
- Select Size:** Radio buttons for sizes S, M, L, XL, and XXL, along with a "Custom Size" button.
- Select Color:** Four colored circles representing different color options: blue, orange, pink, and green.
- Number Of Products:** A text input field with the placeholder "Enter the Number of Products".
- Custom Instruction:** A "Select File" button and a "Start Upload" button, with a sub-label "Upload your custom instruction here".
- Design Preview:** A large central image of a yellow long-sleeved shirt with a decorative collar, labeled "Mans Punjabi Design 1". Below it are three smaller thumbnail images of the same design from different angles, labeled "Design Preview".
- Buttons:** Two buttons at the bottom: "Edit Requisition" (pink) and "Create Requisition" (blue).

Figure 3.3.13: Front End (Order and choose size)

Order and choose size Features

- Customers can choose actual size from the various sizes.
- Customer can see the various type shaped design.

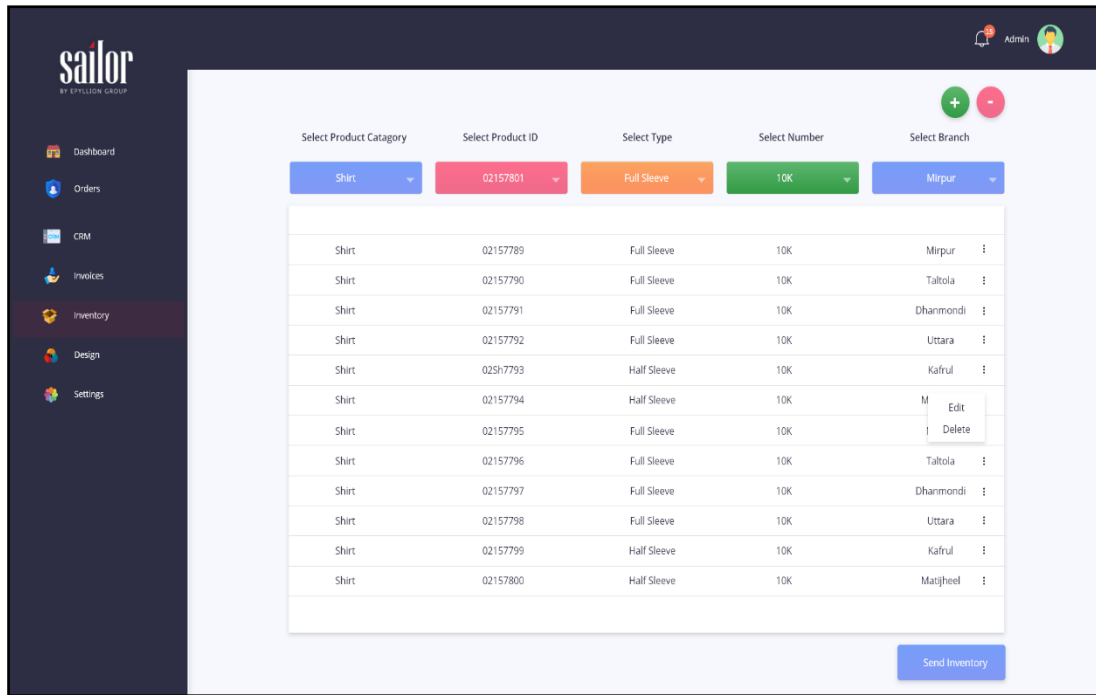


Figure 3.3.14: Back End Page-5 (Inventory System)

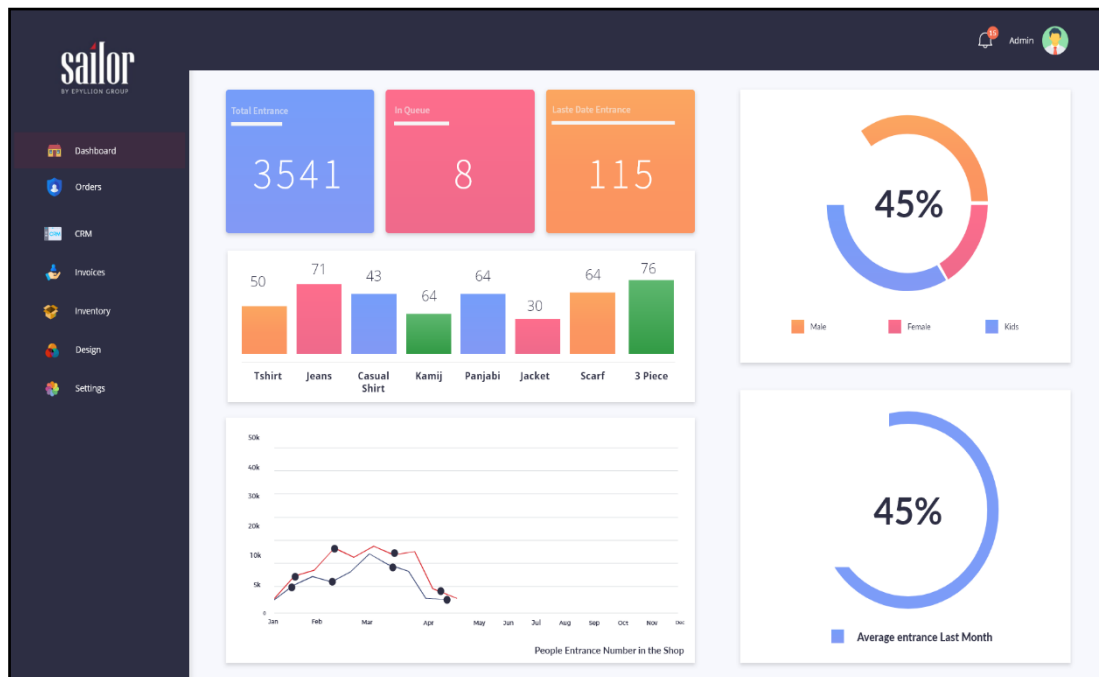


Figure 3.3.15: Back End (Intelligent Single Branch Dashboard)

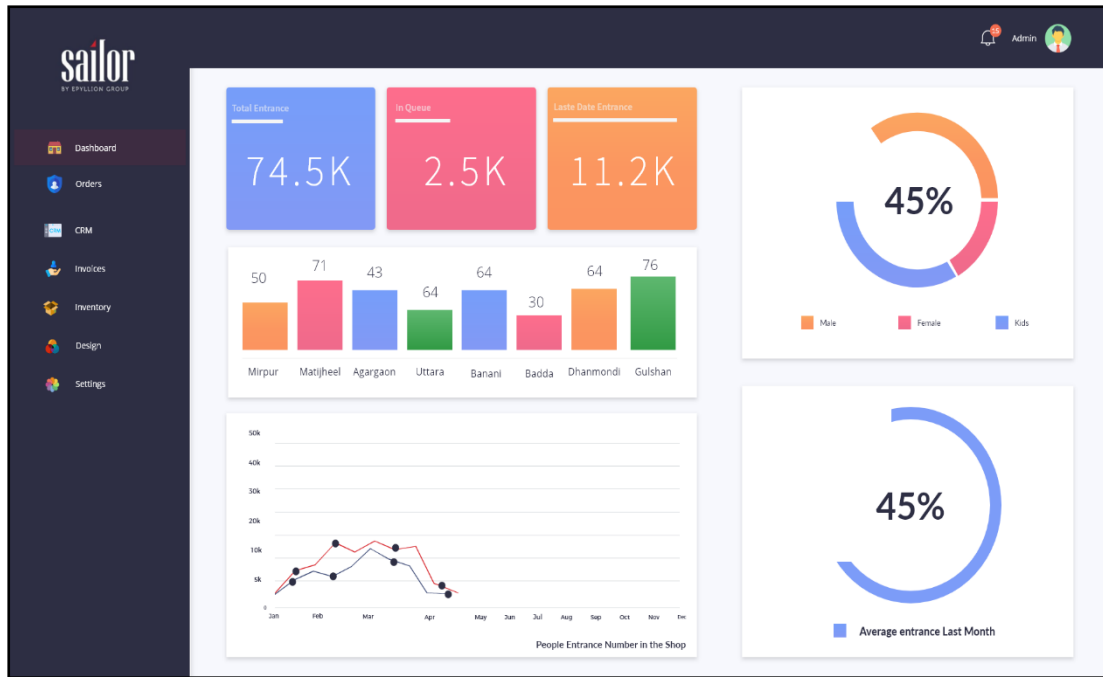


Figure 3.3.16: Back End (Intelligent Multiple Branch Dashboard)

Blood Bank Management system (Under Developed Project)

Languages and Technologies we're using

- React JS for the functionality and the whole front end.
- Building API for using the data for developing the android application.
- Semantic UI for the design the dashboard or admin panel.
- PHP as a server site language.



Figure 3.3.17: Front-End of a blood bank management system

Front-End Features

- Navigation pane for easy access.
- Search donors and request for blood option by specific group.
- Become a donor option in the menu or navigation pane.
- Contact address for the physical contact.
- Social sites link in the navigation pane.
- All the terms and conditions and way to use.

Search Donors Here...

Blood Group
-- Donor Group --

District
Select one...

Search

Search Result

Picture	Blood Group	Name	District	Contact	Last Donation Date
	O positive(+)	Tarun Roy	Dhaka	1767169864	2017-01-09
	O positive(+)	Mosarraf Karim	Dhaka	2147483647	2016-09-09
	O positive(+)	Chancal Chowdhury	Dhaka	2147483647	2017-02-24

Figure 3.3.18: Search option for donors

Search option for donors Features

- Easy search option for any kind of users.
- Donor's clear and details information with the phone number.
- Donor's photo to mark out.
- Exact blood group wise search system.
- District selection system for easily find the donor's.
- Call the donor through the Android application in a single click.

More Projects and Technologies I've worked with

Table 3.3.2: More Projects I've worked on

Project Name	Technology Used
School Management System	HTML, CSS, JS, PHP(CodeIgniter)
News Paper Themes	HTML, CSS, WordPress
Portfolio Websites and Themes	HTML, CSS, JS, WordPress
Corporate Websites	HTML, CSS, Java Script
Live Broadcasting Websites	HTML, CSS, PHP(CodeIgniter)
Communication Website and Android Application	HTML, CSS, JS, ReactJS, Java

Table: 3.3.3 More Technologies I've worked on

Technology	Expertise
Google Material Design	Expert 80%
Materialize CSS	Expert 95%
Semantic UI	Expert 90%
Bootstrap	Expert 95%
AJAX	Medium 75%
Angular JS	Medium 60%
Node JS	Beginner 40%
Laravel	Beginner 30%
Typescript	Medium 70%
VUE JS	Beginner 10%

3.4 Challenges

Facing many problems or challenges is simple during the completion of a huge project. I've faced too, but overcoming is another experience for me. Even error solving and get done the projects has another part of fun and happiness. It may make one more confident to take the next challenges.

CHAPTER 4

Competencies and Smart Plan

4.1 Competencies Earned

I've worked with several projects during my Internship. I've done those job within the required timeline. So that I could say I'm enough mature now to do any kind of hard and challenging job in the ICT sector related to Full Stack Web Development and Web based Android Application. For this dynamic challenging time I'm totally prepared for the career. I've hand to hand experience for making the super dynamic sites and android application with the new age technologies.

Even I'm fully prepared for learning new technologies within a short time. Now many more technologies come daily and controlling the trend. I'm totally ready for taking those challenge.

4.2 Smart Plan

I've already planned and mapped my career for enhancing and creating the outstanding web technology. I've planned about to beautify my future by the following steps:

- Working with the new challenging job.
- CV and Portfolio making for tracing the better career.
- LinkedIn Profile and GitHub Profile enhancing.
- Up to date myself with the technology.
- Continuing work for remembering my gained knowledge.
- Searching for doing new and creative arts and design.

4.3 Reflections

- Doing challenging job with a creative team.
- Creating something outstanding for my country.
- Learn more technology.
- Start an Initiative for making the new opportunities.
- Creating something for the nation and mankind.

CHAPTER 5

Conclusion and Future career

5.1 Discussions and conclusion

I've learned so many things in this internship. How to manage a project and manage the timeline were the most important topic. Knowledge about various Web and Android Application technology can help me to find the better career than other. SDLC process for the huge project and making a SDK and well documentation were other experience I've gathered. Again working in collaboration with a team experience will help me to enhance my step forward.

5.2 Scope for Further Career

This internship and knowledge will help me to utilize my future career. Still I've some limitations on my knowledge and I've to learn more. But my present knowledge can help me enough to trace the best career of the century. I'm seeing the following future career can be my target:

- Good knowledge on JS can help me to work with dynamic and creative jobs.
- There is not so much JS developer presently so that I could get in a higher profession on any IT company.
- Several knowledge about web and android technology can pick me to the leading IT company.
- Besides Web and Android knowledge, I've others knowledge for project management and collaborative work will help me to get the best career.

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APPENDIX

Appendix A: Internship Reflections

First I've decided for the internship for enhancing the career for the new challenging time on the career market. Every student should gain some experience of hand to hand project in real life for utilize the knowledge. This internship made me ready for tracing this challenge.

Now I'm totally prepare for any kind of challenging and dynamic job. This experience helps me to be confident about my future and I'll be always pleased to Popular IT Limited for such kind of help on my career.

Appendix B: Company Detail

Popular-IT Limited

Website: <https://popularit.com>

Website 2: <https://popular-it.com>

Website 3: <https://themesbazar.com>

Email: info@popular-it.com

Email 2: info@themesbazar.com

Mukto Bangla Complex,

Level: 4, Room No: 394

Mirpur, Dhaka-1216