

E-BARBER

Submitted in partial fulfilment of requirements for Diploma in CSE

SUBMITTED BY-

Abinash Barik (F19029007002)

Asish Kumar Barik (F19029007006)

Arnada Prasad Pattanaik (F19029007005)

T.Prabin Patra (F19029007028)

Vishal Raj (F19029007030)



C.V. RAMAN POLYTECHNIC, BBSR
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
BIDYANAGAR, MAHURA, JANLA, BHUBANESWAR-75054, ODISHA
ACADEMIC YEAR-2019-22

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CERTIFICATE

This is to certify that the work in this project report entitled “**E-BARBER**” efficient being submitted by Abinash Barik, Asish Kumar Barik, Vishal Raj, Arnada Prasad Pattanaik, T.Prabin Patra bearing registration No.F19029007002,F19029007006,F19029007005,F19029007028, F19029007030 has been carried out under my supervision in partial fulfilment of the requirement for the diploma in “computer science” during session 2019-2022 in department of computer science of C.V Raman polytechnic, Bhubaneswar and this work is original work of above students.

SIGNATURE OF STUDENT

GUIDE

HOD

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Team Members:

Abinash Barik (F19029007002)

Asish Kumar Barik (FI9029007008)

Arnada Prasad Pattanaik (F19029007005)

T.Prabin Patra (F19029007028)

Vishal Raj (F19029007030)

ABSTRACT

Searching out for the best barbershops or hair salons within your vicinity is a very tiresome task. Also, visiting a barbershop or salon without a prior appointment booking can keep you waiting in a queue thereby taking away your precious time. To solve this issue, we have developed an android based barbershop application. By choosing from listed categories this android app will generate a list of nearby barbershops & salons. Both the barbershop owners & users can access the application by registering themselves on the app by submitting the necessary details. The barbershop owners can update their profiles by adding photos & a list of services provided by them. The users can view the shops' profiles, photos & services, based on which they can book an appointment as per their desired time & date in their favorite shops. The users can also review & rate a shop through this app. This System can be used by barber shops & users who want to enjoy online bookings instead of waiting in a queue.

SIGNATURE OF STUDENT

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INTRODUCTION

Searching out for the best barbershops or hair salons within your vicinity is a very tiresome task. Also, visiting a barbershop or salon without a prior appointment booking can keep you waiting in a queue thereby taking away your precious time. To solve this issue, we have developed an android based barbershop application. By choosing from listed categories this android app will generate a list of nearby barbershops & salons.

Both the barbershop owners & users can access the application by registering themselves on the app by submitting the necessary details. The barbershop owners can update their profiles by adding photos & a list of services provided by them. The users can view the shops' profiles, photos & services, based on which they can book an appointment as per their desired time & date in their favourite shops. The users can also review & rate a shop through this app.

Barber Application is used for booking barber services through the android application. Admin is the authorized user who will verify the Barbershop & its services. Admin can also block any barber account if needed. Users can get a list of all the Barber shops nearby and check and book its services. Barber can check the bookings and accordingly manage them. Users can rate & review the shop & services.

Existing System

1. Miosalon:- MioSalon is a software product curated for hair, nail, and beauty salons and spas, and health and wellness centers. It is a cloud-based software that specializes in customer engagement and retention. The software helps businesses to flourish and grow by managing important aspects including appointment scheduling, client data management, inventory management, payment processing, and client marketing.
2. Appointy:- Appointy owns and provides various websites, services, and software that facilitate online scheduling of appointments (collectively, the "Services") by accessing .
3. YesMadam.com:- Yes Madam boasts of well-trained beauty experts who have been handpicked from the top salons of the city for their skill and experience. And you do not even have to step out of your house! Because we are an at-home service, we also do a mandatory background check and police verification of each of the experts on board so that you can rest assured in terms of the quality of services and your safety.
4. Zoylee Salon &Spa Booking App:- Zoylee is a hyperlocal, on-demand appointment booking platform for beauty, grooming, and personal care services. Designed to bridge the gap between salons, spas, and beauty parlors and end consumers by bringing them on a unified platform, Zoylee stands as a single point of contact to facilitate easy bookings and delivery of services with no waiting time.
5. StyleSeat :- Book Hair & Beauty.
6. E Salon:- Students developed this app for the project propose.

Drawbacks existing System

1. **Miosalon:-** It has so many hidden charges and many extra charges including the salon charges and booking charges.
2. **Appointed:-** The app doesn't provide all the salons near to the customer, only costly salons are available in this.
3. **YesMadam.com:-** They respond usually in 2 Days means any customer stuck in any situation they are available after 2 Days. And also this app is not available in India.
4. **Zoylee Salon &Spa Booking App:-** This software is only located in the Delhi region, no other region salons can be registered.
5. **StyleSeat-Book Hair & Beauty:-** This app is not available in India.
6. **E Salon:-** This app is not in operation anymore.

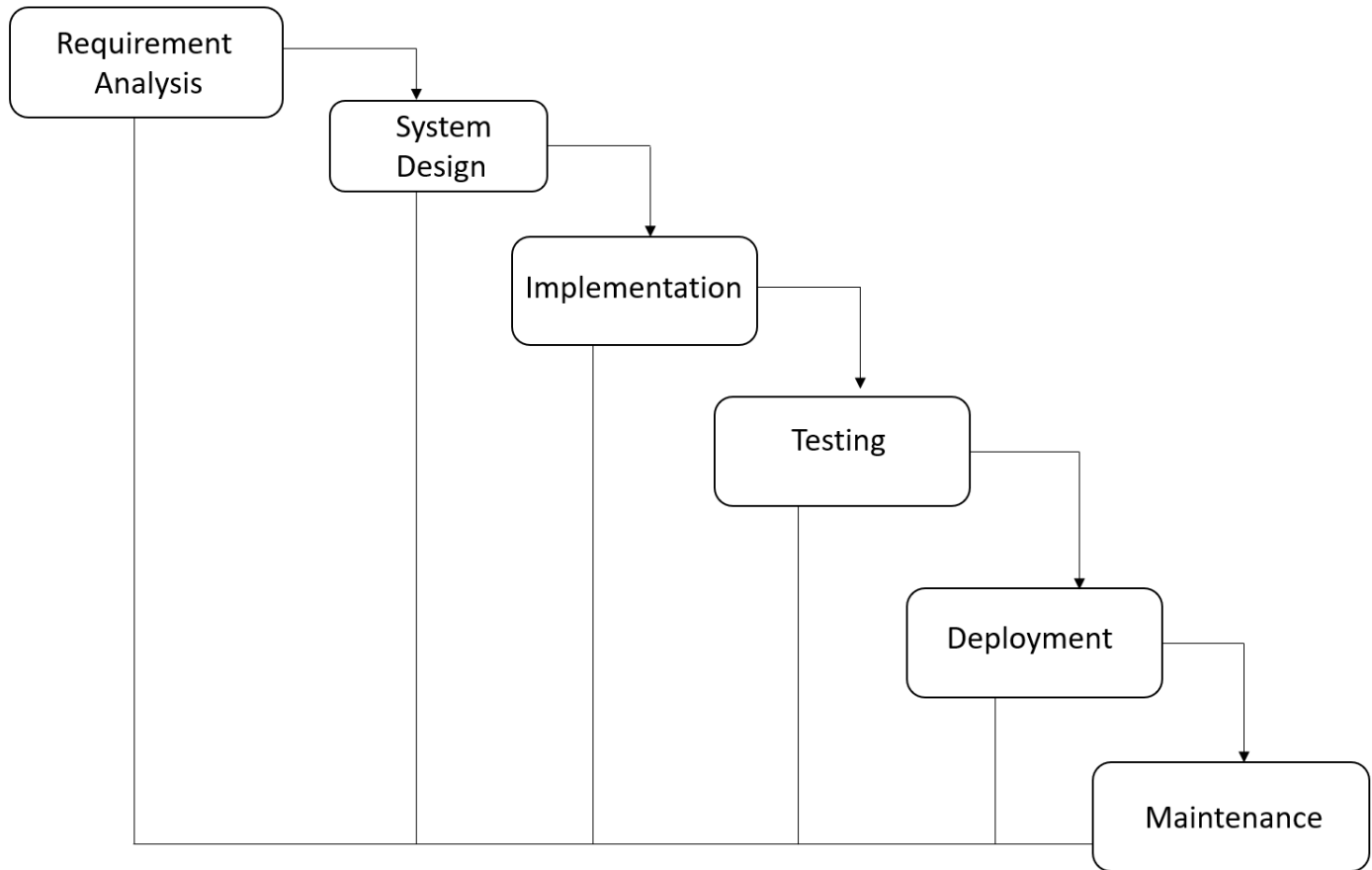
Purposed System

This proposed system E Barber App is an appointment booking application used for booking barber services through an android application. Users can get a list of all the Barber shops nearby and check and book its services. Barber can check the bookings and accordingly manage them. Users can rate & review the shop & services. Application Admin is the authorized user who will verify the Barbershop & its services for authenticity.

Advantages of E-Barber

- Easy searching of top nearby salons by venue, city, or area.
- Easy booking user interface.
- Separate Dashboard for both customer and service provider.
- Option to choose from different categories (Men, Women & Unisex).
- Facility to go through reviews of different Salons.
- Easy Cancellation and Refund Policy.
- Provider can post for barber vacancy.
- Users can pay from various payment methods.
- We verify and approve each registered salon manually for security purposes.
- Live Seat/Advance Booking.

Waterfall Model



REQUIREMENT ANALYSIS

Functional Requirements

- The system supports customers booking and able to modify them.
- When a customer search for salon, spa, beauty parlour and the search result must contain salon, spa, beauty parlour information (Address, Ratings, and Price) and also its availability within choosing check in and check out date.
- Customers able to cancel their booking from their account.
- Staffs able to edit customers booking information (updating slot booking, and also cancelling booking).
- Customers can book online and pay with credit or debit card.
- The system must send booking confirmation email after successful payment.
- Customers can write reviews about salon, spa, and beauty parlour and also rate them.
- Customers able to check their booking status from their individual account.
- Customers can send feedback or call the company for booking purposes.
- Customers can check for latest promotion or deal.

Non-Functional Requirements

- The system must ensure that all the transferable data for example customer's credit or debit card number, CVV Code, and e-payment should be done in a secured connection.
- The system must be able to handle multiple transactions at a time.
- The system must provide customers with 24*7 hours online booking service.
- The system should support almost all browsers (Internet Explorer, Safari, Chrome, and Firefox).
- The application should support the android operating system.
- Customers need to cancel the booking before 24 hrs. Otherwise, their credit card will be charged for one day.

Class Diagram

This is the most used UML diagram in the field of software engineering design. It is called as a main building block of any object-oriented solution. Usually, it illustrates the classes in a system, attributes and operations of each class and also the relationship between each class.

Below is the “**CLASS DIAGRAM**” of our new proposed system.

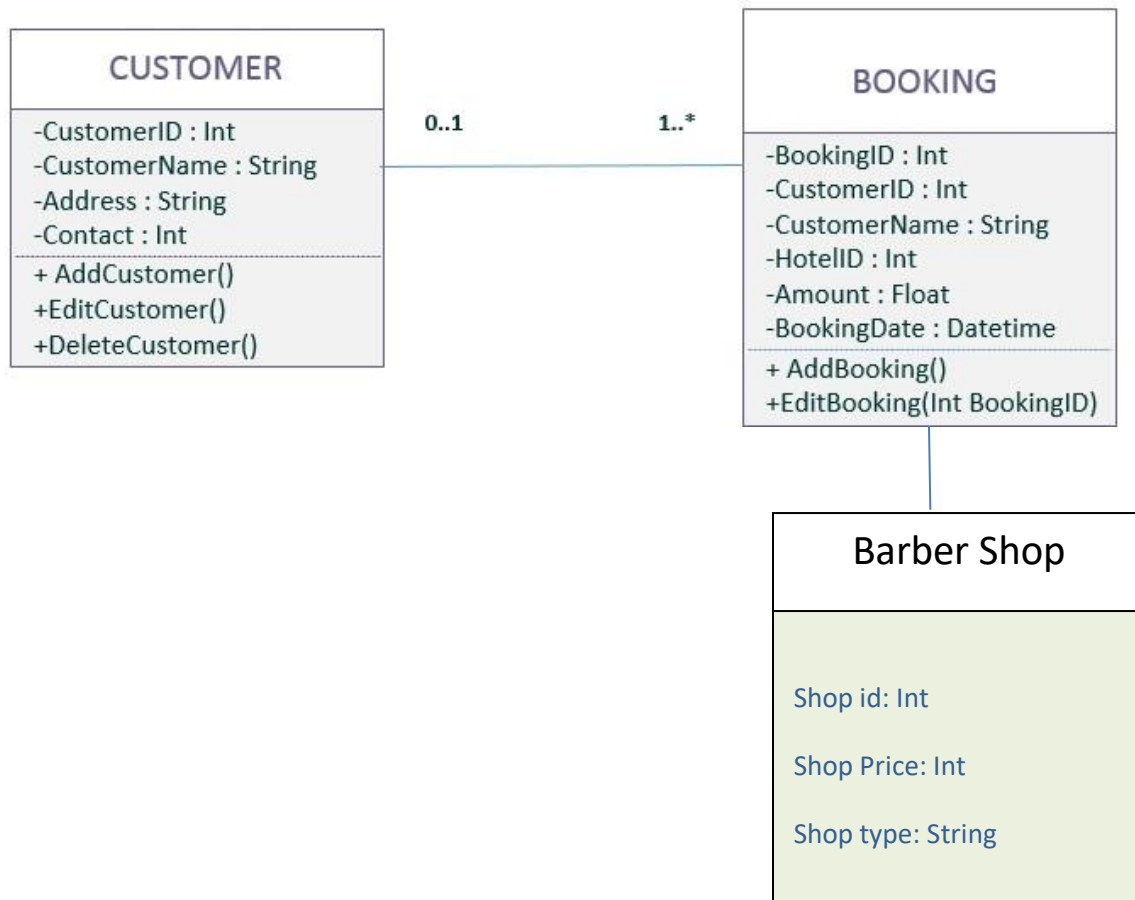
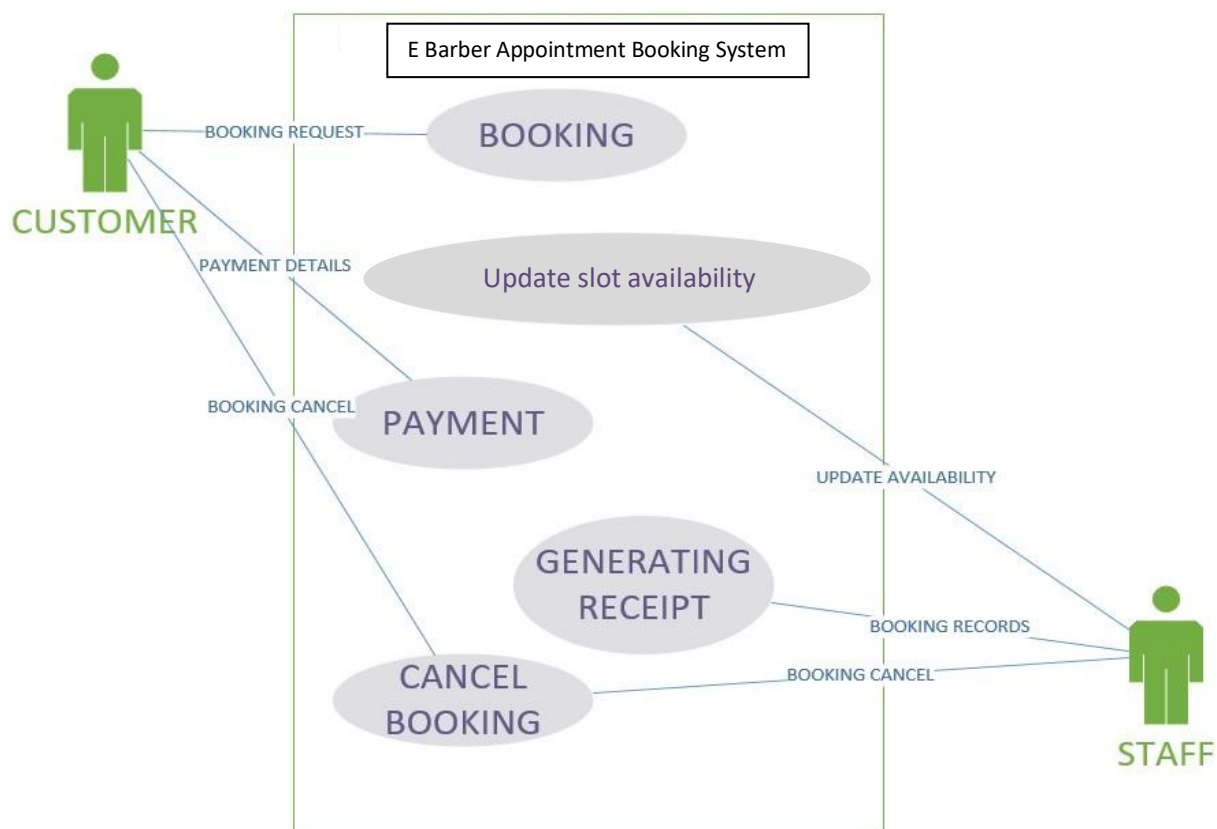


Fig. Class diagram

Use Case Diagram

It is also called behavioural UML diagram. It gives a graphic over-view of the actors involved in a system directly. It shows how different functions needed by the actors how they are interacted.

Below is the “*USE CASE DIAGRAM*” of our new proposed system.



Use case table

Name :	Booking
Actor :	Customer
Description :	Describe the process used to add a new booking
Successful Completion :	1. Customers can book 2. Staffs enter the customer's details into the database
Alternative :	None
Precondition :	Customers registered as a member
Post condition :	Slot is booked by customer

Assumption :	None
Name :	Update Slot Availability
Actor :	Staff
Description :	Can update the availability of slot
Successful Completion :	1. New availability for slot booking 2. Staffs enter the available slot details into the database
Alternative :	None
Precondition :	Staffs update the system entering new slot availability
Post condition :	Customers can see the latest availability of slot
Assumption :	None

Name :	Payment
Actor :	Customer
Description :	Describe the process of payment through the system
Successful Completion :	1. Customers will receive the invoice 2. Staffs enter the customers payment details into database
Alternative :	Pay after arrive into the destinations
Precondition :	Customers registered as a member
Post condition :	Slot is booked by customer
Assumption :	None

Name :	Generating Receipt
Actor :	Staff
Description :	Describe the process used to generate the booking details
Successful Completion :	1. Staff can check the booking details 2. Staffs will keep the copy of the generated receipt
Alternative :	None
Precondition :	
Post condition :	Slot is booked by customer
Assumption :	None

Name :	Booking
Actor :	Customer
Description :	Describe the process used to add a new booking
Successful Completion :	1. Customers can book 2. Staffs enter the customers details into the database
Alternative :	None
Precondition :	Customers registered as a member
Post condition :	Slot is booked by customer
Assumption :	None

System Design

This app is created for easy online booking of e-barber appointments has following design structure.

- Sign In
- Log In- Provider/ Customer
- Search Nearby barber shops.
- Choose the Barber shop according to you.
- Book your appointments.

Sign up:-

There is a quality sign up window because this is more secure than the other Sign-up forms as in a normal Sign-up window. A provider or a customer will first sign up the app, then he/she will be able to use the app.

Log In:-

There is a quality log in window because this is more secure than other log in forms as in normal log in window there are multiple logins available so that more than one person can access to book appointments with their individual logins. But in this project there is only one login id i.e. provider or customer id and password by which a person enters the app and accesses all services provided by 'E-BARBER'.

Search nearby barber shops:-

A customer will first search nearby barber shops. He/she checks all shops' reviews in our app/website. Then he/she will choose his/her favourite shop accordingly. A customer can book appointments within a minute.

Appointment Bookings:-

After selecting a barber shop, a customer can book appointments effortlessly according to his/her time. Also, the customer can cancel the booking before a specific time.

Product Perspective:-

User Interface:-

1. The application will have a friendly and menu-based interface. The following screens will be provided;
2. There is a Sign-up screen for new providers and users.
3. A login screen for entering the username and password will be provided. Access to different screens will be based on the user.
4. There is a screen displaying information regarding all the nearby barber shops.
5. There is a screen for displaying information regarding the categories of shops like Male, Female, and Unisex.
6. There is a screen displaying information regarding the different services provided by the barbershop.
7. There is a screen for displaying information regarding booking appointments.

Product Functions:-

1. The application will allow access only to authorized users with a specific role
2. Provider- The provider provides the different types of services.
3. User- A user books the appointment for services through this app from different shops available.

Constraints:-

- Since the database being used is My SQL, which is a very popular DBMS, it will be able to store a very huge number of records.
- An extra security as SSL must be used to secure the marks detailed and other provider and customer information.

Flow Charts

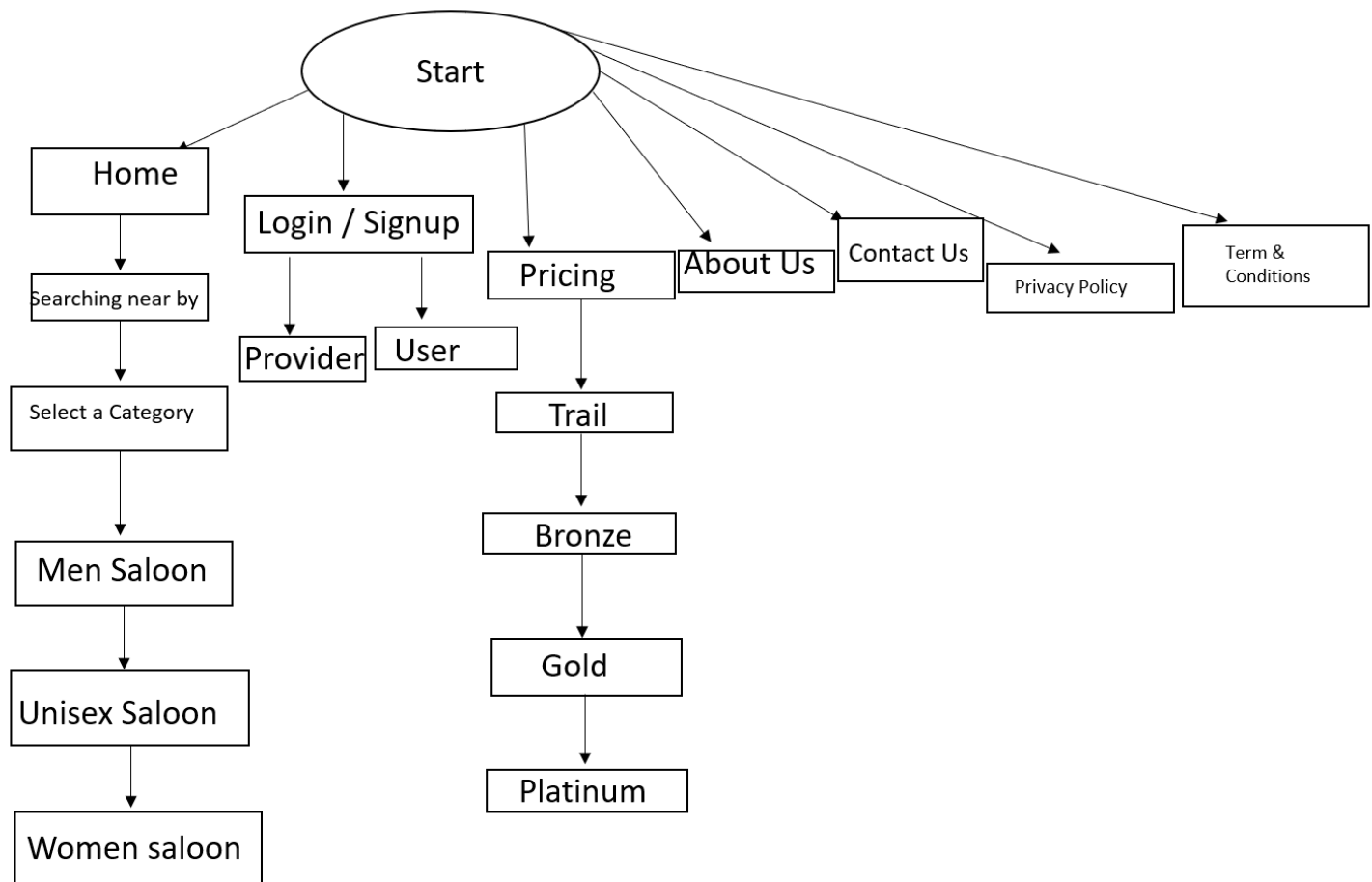


Fig. Overview flow chat

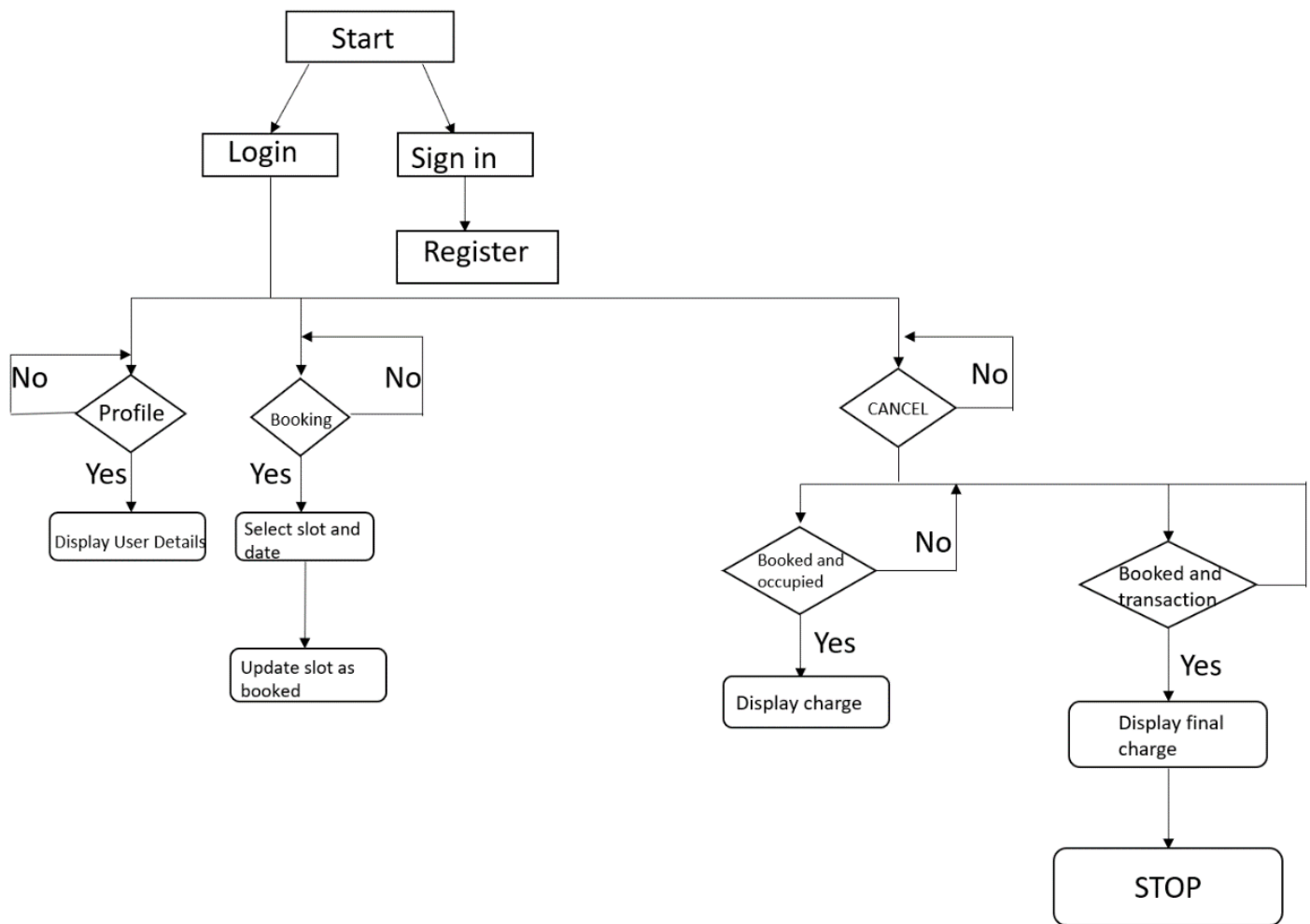
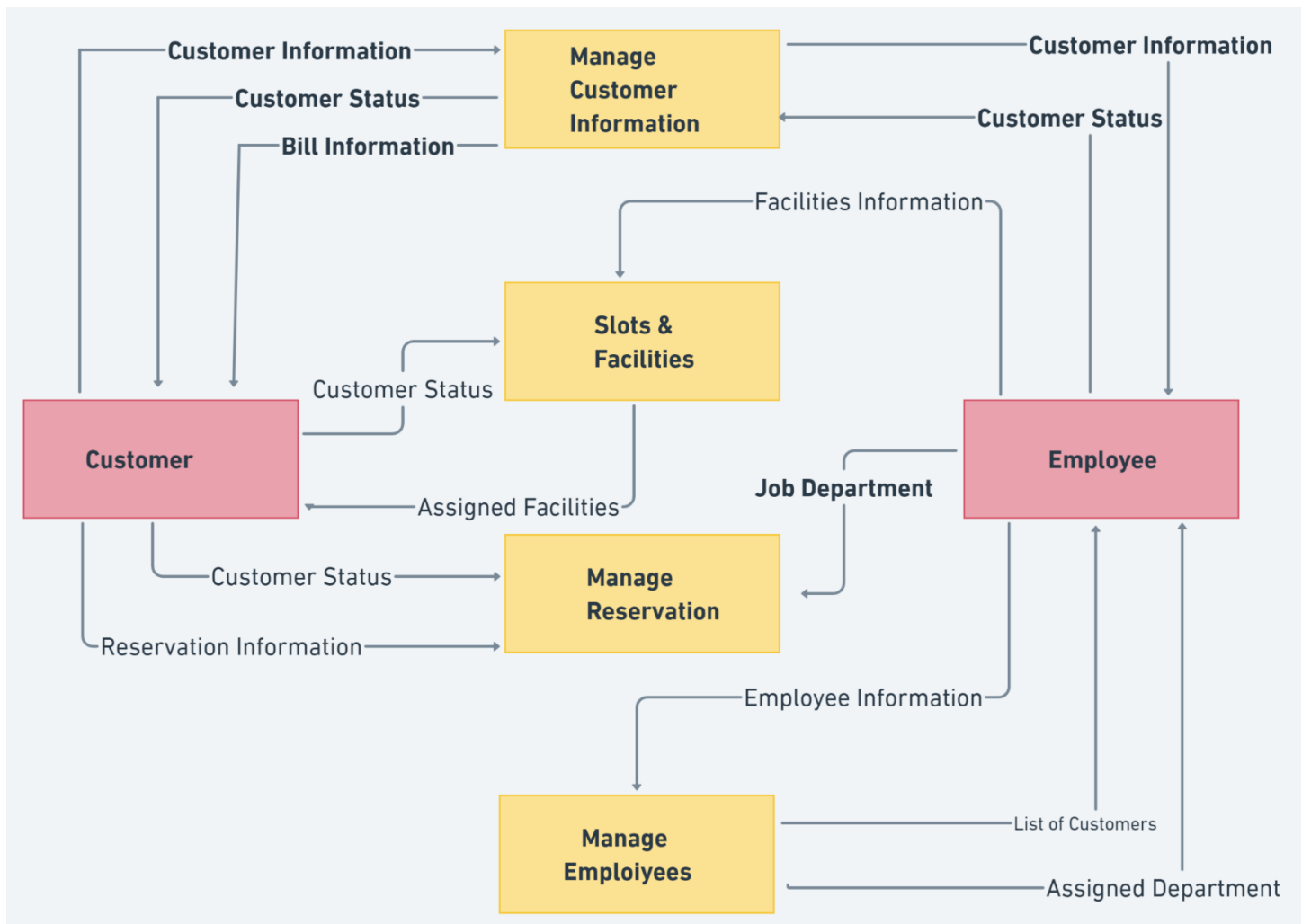
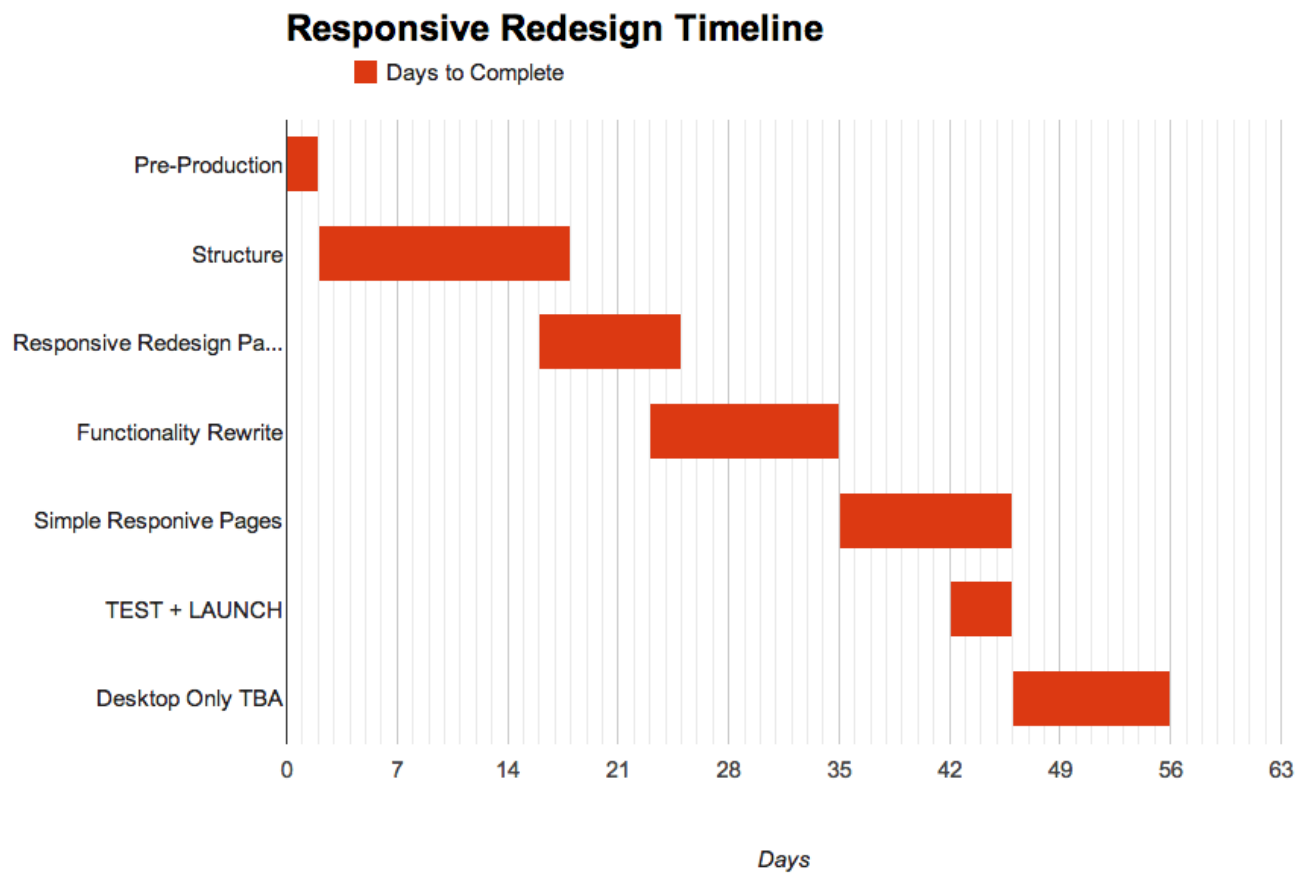


Fig. login/signup flow chat

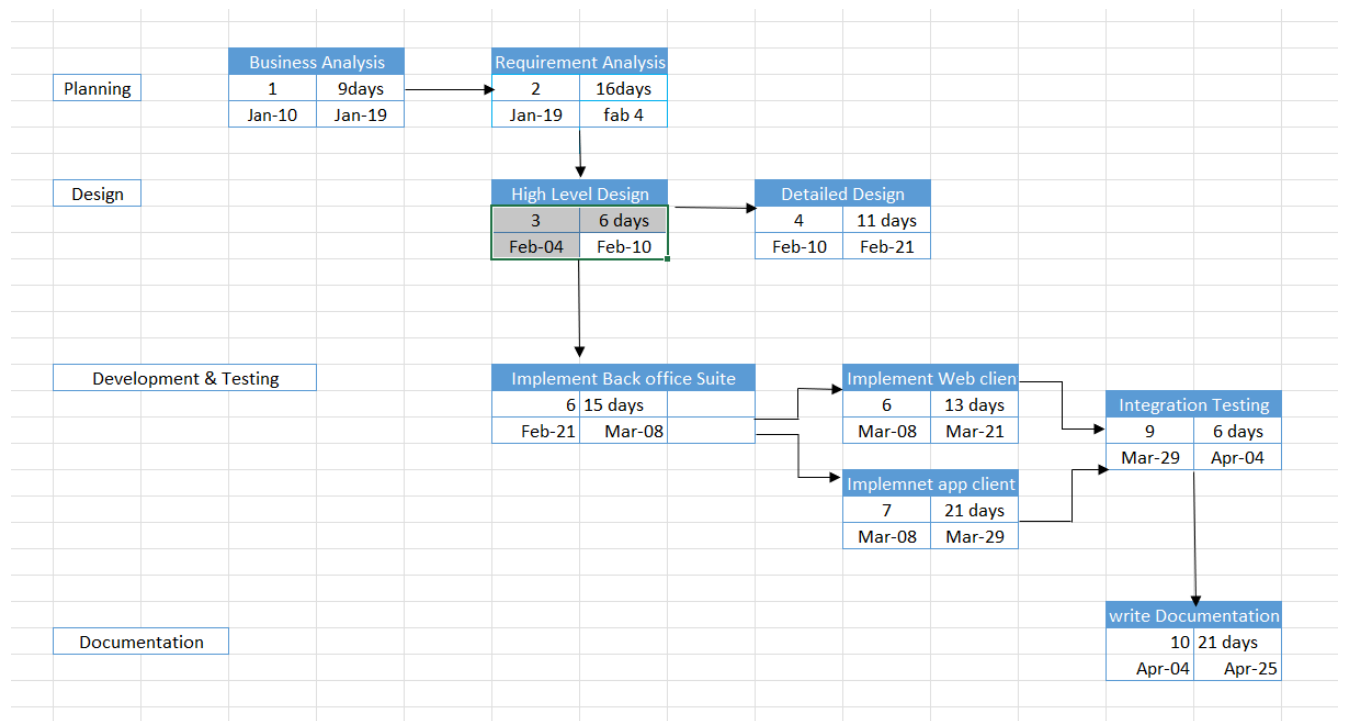
Data Flow Diagram



Gantt Chart

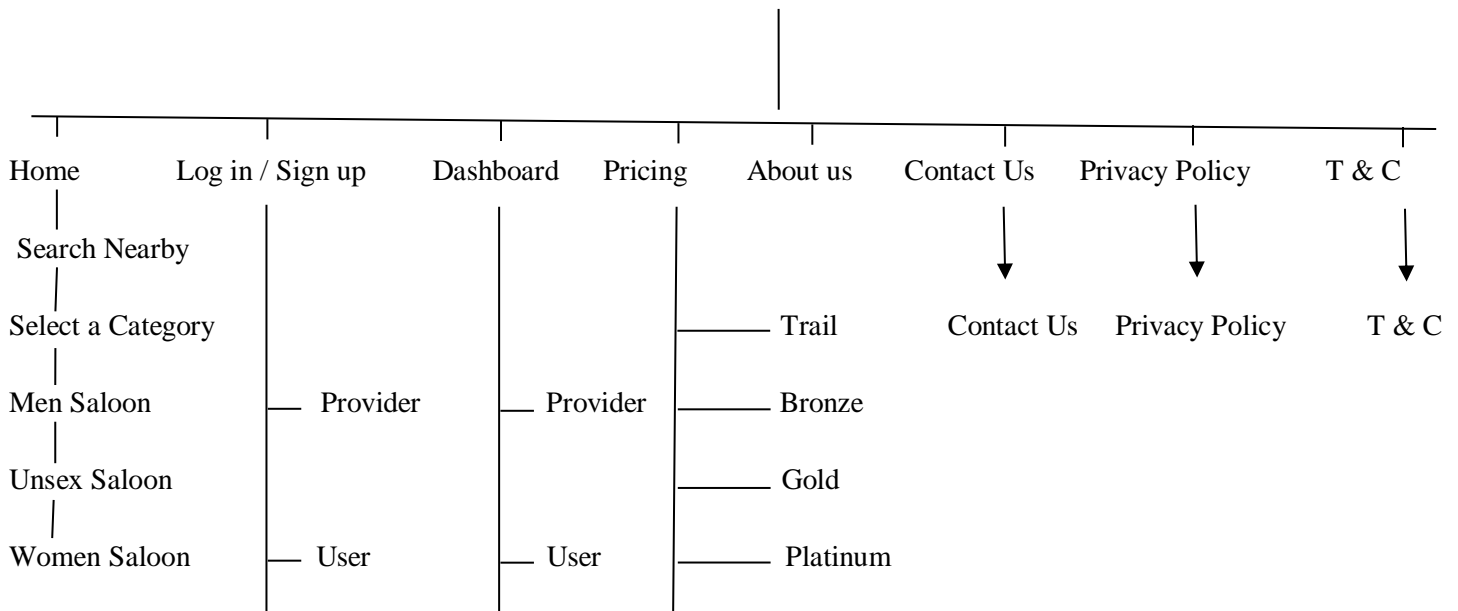


Pert Chart

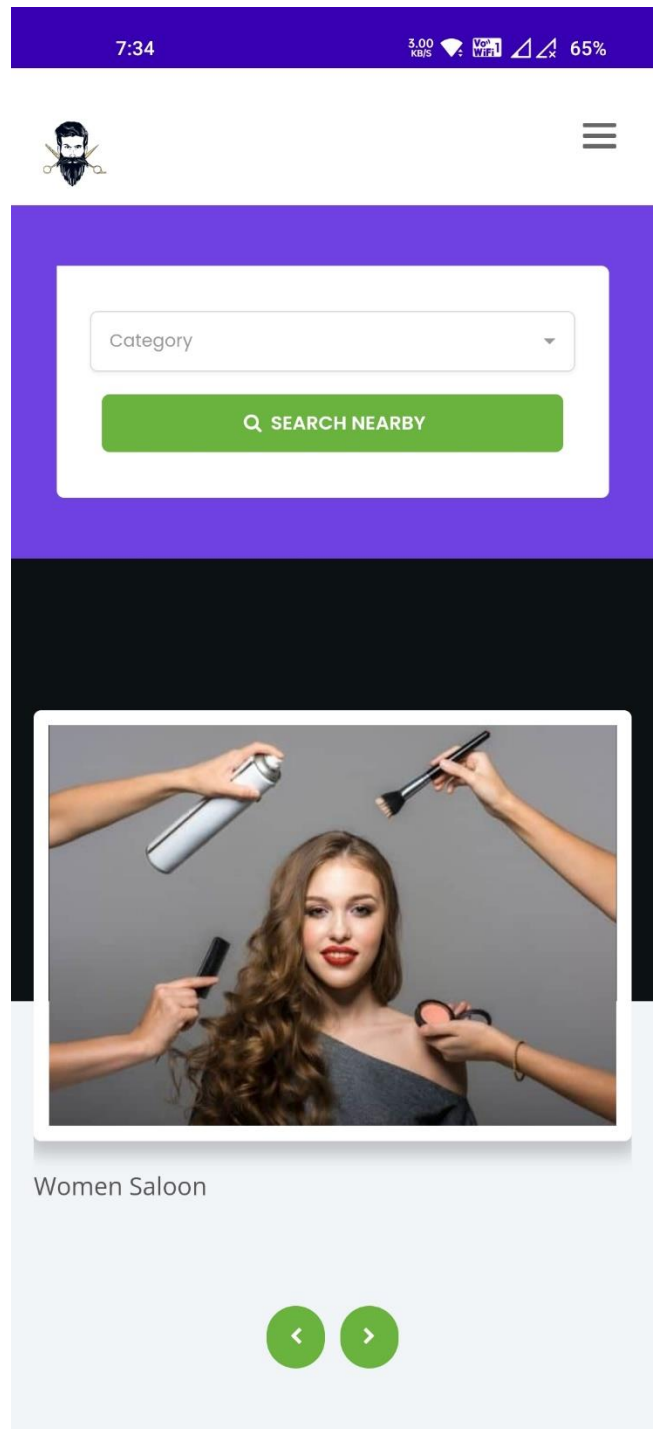
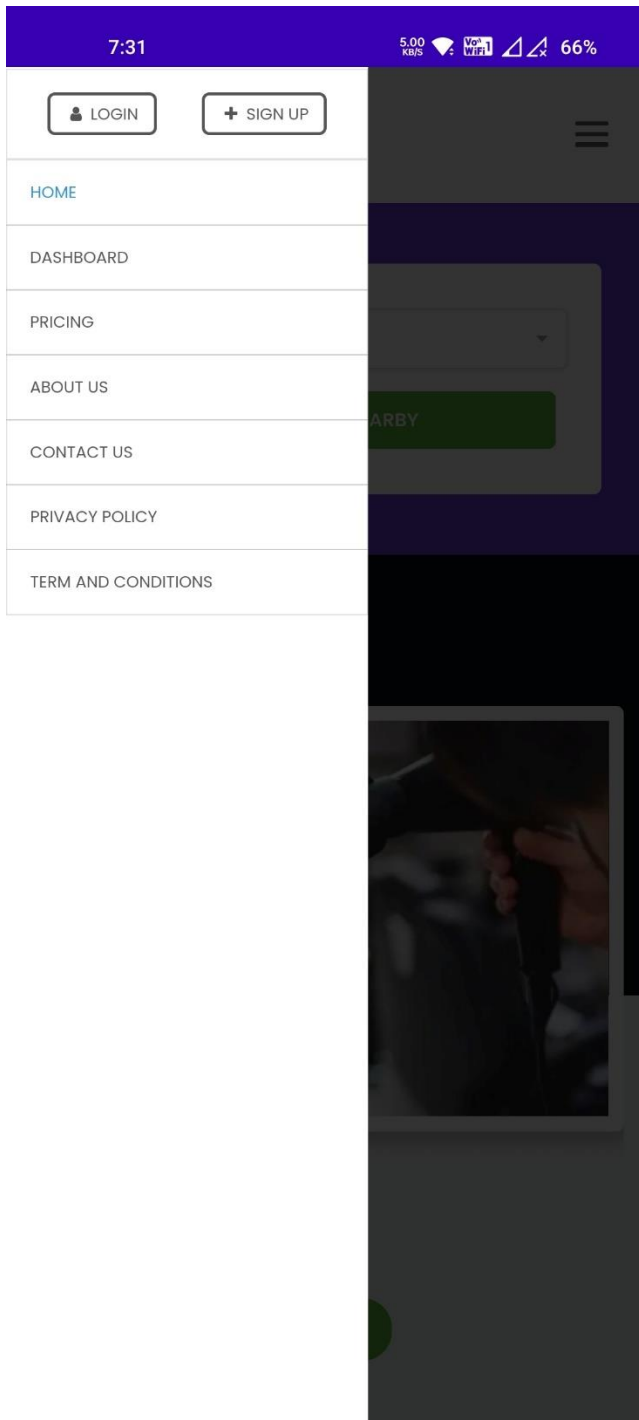


Tree Structure

E- BARBER



USER INTERFACE OF THE APPLICATION



7:31 66%

Sign up

PROVIDER CUSTOMER

Company Name

First Name

Last Name

Username

Email

Password

Confirm Password

Mobile

CATEGORY

SELECT A PACKAGE

☐ I'm not a robot

reCAPTCHA

Privacy - Terms

SIGN UP

9:04:11 66%

LOGIN SIGN UP

HOME DASHBOARD PRICING

Login

Username

Password

LOGIN

Don't have an account? | Forgot Password

Connect with:

Facebook

google

twitter

7:32 66%

Profile Settings

User Avatar

SELECT IMAGE

My Profile

My Favorites

Bookings

Schedule

Invoice

My Jobs

About me

Username

@sandy

First Name

Santosh

Last Name

Kumar

7:34 65%

4 Results Found

NEWEST DESC 9

Encapture Shop

★★★★★

★★★★★

Superior cuts

7:35 65%

Superior cuts

Home > Women Saloon > Superior cuts

About Gallery Contact Services Booking Review

★★★★★

Superior cuts

7:35 65%

Photo Gallery

Superior cuts

Superior cuts

7:35
5.00 MB
65%

Booking Amount:
Rs.0.00

Choose Service

Date & Time

1

Customer info

Payment

1

Make Up

Rs.200.00

2

Hair Texture

Rs.300.00

3

Hair Treatments

Rs.250.00

4

Spa Treatments

Rs.500.00

5

Advanced Hair Moisturising

Rs.600.00

7:35
0.72 MB
65%

July 2022

Mon	Tue	Wed	Thu	Fri	Sat	Sun
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

All Booked
Unavailable

08:00 AM-08:30 AM

08:30 AM-09:00 AM

09:00 AM-09:30 AM

09:30 AM-10:00 AM

10:00 AM-10:30 AM

10:30 AM-11:00 AM

11:00 AM-11:30 AM

11:30 AM-12:00 PM

12:00 PM-12:30 PM

12:30 PM-01:00 PM

01:00 PM-01:30 PM

01:30 PM-02:00 PM

02:00 PM-02:30 PM

02:30 PM-03:00 PM

03:00 PM-03:30 PM

03:30 PM-04:00 PM

11:15:16
64%

Book Now

Booking Amount:
Rs.500.00

Choose Service

Date & Time

Customer info

4

Payment

PREVIOUS

PAY NOW

7:39
65%

Hi, Superior cuts

MY PROFILE

JOB ALERTS

SUBMIT INFORMATION

Profile Settings

User Avatar

Upload Image

Upload Your Avatar

Min width and height for good quality: 600 x 600 px

Extensions: JPEG,PNG,GIF

7:39
65%

MY PROFILE

SUBMIT INFORMATION

Profile Settings

User Avatar

Upload Image

Upload Your Avatar

Min width and height

Extensions: JPEG,P

Profile Settings

My Jobs

Booking Settings

Payout Settings

Quotation

Business Hours

Postal Codes

Our Branches

Regions

My Services

Team Members

Invoice

Upgrade Account

7:43
64%

Hi, Santosh Kumar

Profile Settings

User Avatar

SELECT IMAGE

Update your profile picture, if not the default Avatar image will be used

MAX UPLOAD SIZE :
1MB

DIMENSIONS :
150X150

EXTENSIONS :
JPEG,PNG

About me

Username

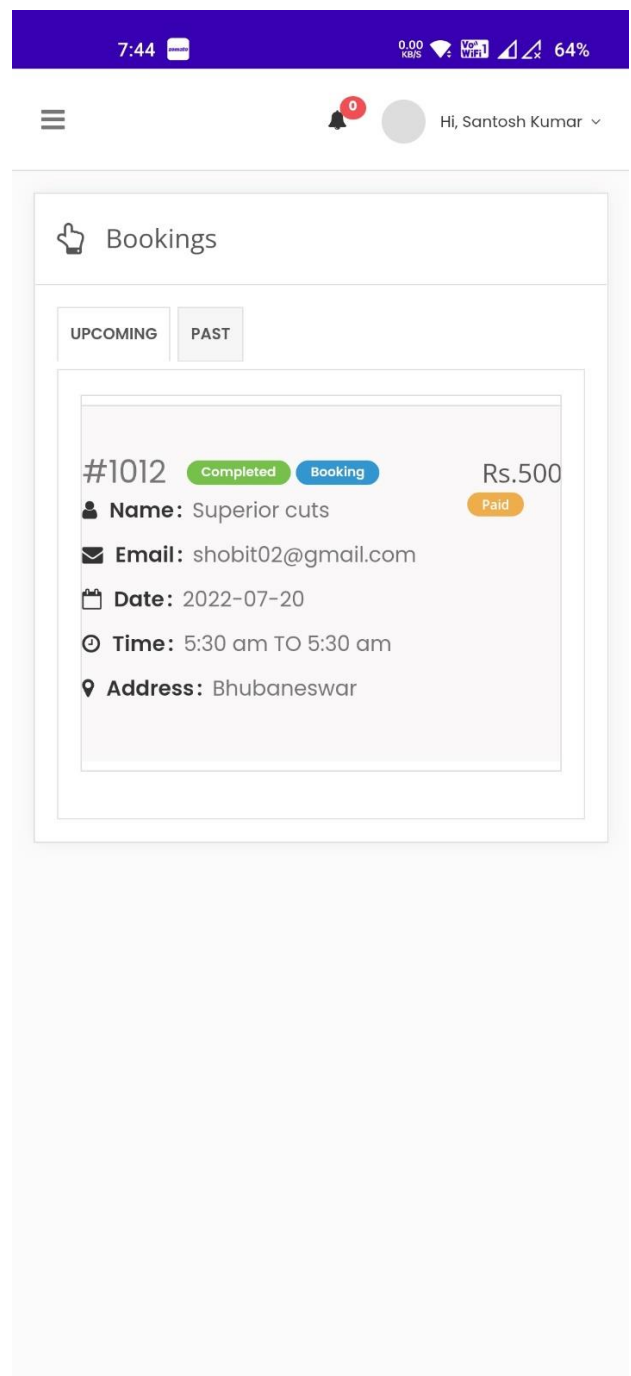
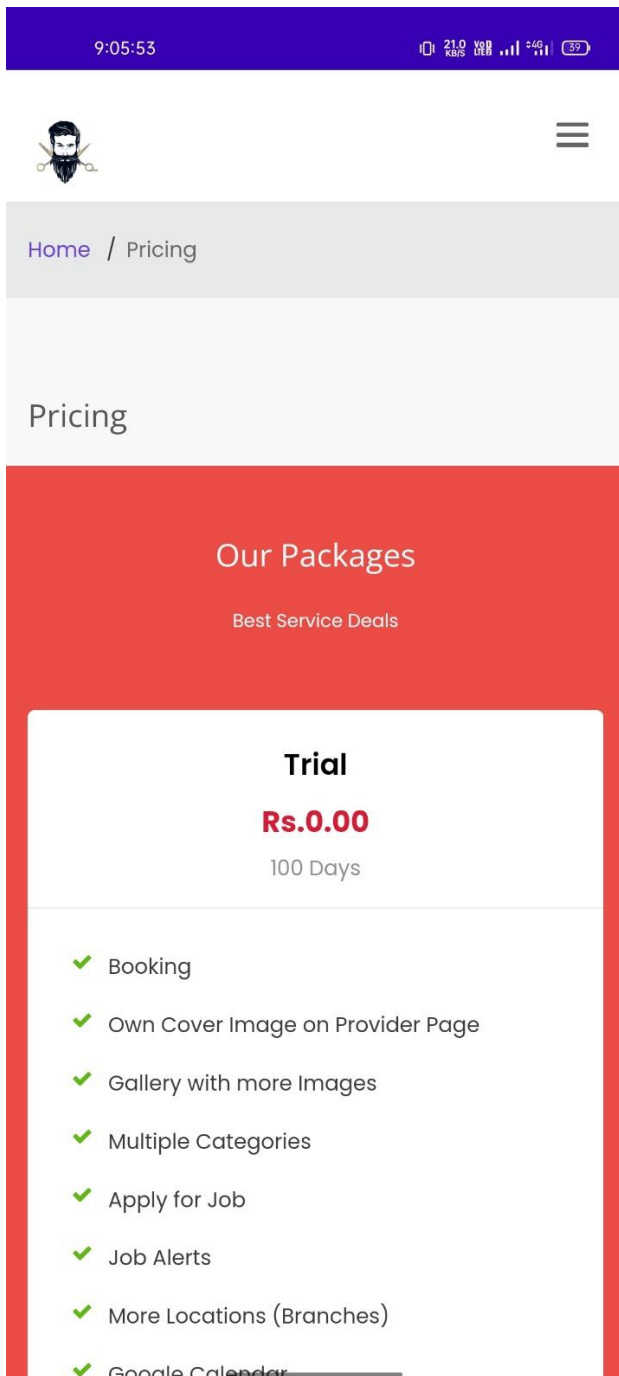
@sandy

First Name

Santosh

Last Name

Kumar



Bookings

MARK AS COMPLETE

CANCEL BOOKING

← BACK

Booking Ref ID #	1012
Customers Name	Santosh Kumar
Email	santosh2003@gmail.com
Date	2022-07-20
Time	5:30 am-5:30 am
Phone	9556050980
Phone2	
Service Location	
Apartment	
Address	Bhubaneswar
City	Bhubaneswar
State	Odisha
Postal Code	
Country	India
Short Description	<ul style="list-style-type: none"> • Make Up • Hair Texture
Rating	★★★★★
Feedback	
Total Amount	Rs.500.00
Website Service Charges	Rs.50.00
Providers Fee	Rs.450.00
Booking Status	Need-Approval
Payment Type	Cod
Payment Status	Pending
Txn ID	NA
Admin Pay to Provider	Pending



← PREVIOUS

PAY NOW

Review

Q & A

Ask Question

LEAVE A REVIEW

Logged in as Abinash Barik Log out? Required fields are marked *

Your overall rating of this listing:



Very Good

Summarize your opinion or highlight an interest

Enter your comments...

SUBMIT YOUR REVIEW

IMPLEMENTATION

With inputs from the system design, the system is first developed in small programs called units, which are integrated in the next phase. Each unit is developed and tested for its functionality, which is referred to as Unit Testing.

Software Requirement:-

- **Operating System:** Windows (XP, 7, 8, 8.1) or Mac OSX (Tiger, Leopard, Snow Leopard, Lion, Yosemite).
- **Web Browser:** Google Chrome, Internet Explorer (ver. 8 or later), Mozilla Firefox, Safari (Mac).
- **Database Management System:** MySQL, SQL Server, Microsoft Access, Oracle.
- **Web Development System:** Visual Studio 2010 or later, Adobe Dreamweaver, Notepad, and Notepad++.
- **Others:** .NET FRAMEWORK.

Minimum Hardware Requirement:-

- **RAM:** Minimum 2GB or higher.
- **HDD:** Minimum 50 GB.
- **Processor:** Intel Pentium 4 or AMD.

TESTING

Test Case 001

- **Test Title:** E-BARBER Icon
- **Test Procedures:** Click on the icon.
- **Test Data:** Users need to click on the icon bar.
- **Expected Result:** It will redirect to the system home page.

Test Case 002

- **Test Title:** Customer & Provider Login.
- **Test Procedures:** Type username & password.
- **Test Data:** Username & password must be alphanumeric. Otherwise, the system will show an error (ex. Please enter valid alphanumeric data).
- **Expected Result:** It will redirect to the login page.

Test Case 003

- **Test Title:** Sign Up
- **Test Procedures:** Click *sign-up* page.
- **Test Data:** Input the customer's information and click on the button "**SIGN UP**".
- **Expected Result:** It will register a new customer.

Test Case 004

- **Test Title:** Search.
- **Test Procedures:** Type Salons name with selecting slots.
- **Test Data:** Valid salons name with date.
- **Expected Result:** System will search according to the customer's choice. .

Test Case 005

- **Test Title: Manage Booking.**
- **Test Procedures:** Click on the link “*Manage Booking*”.
- **Test Data:** *Add, Edit, Del & Save* button.
- **Expected Result:** Staff can edit, add, and Del individual customer booking records.

Test Case 006

- **Test Title: Username & Password**
- **Test Procedures:** Enter customers or staff’s valid username (Upper Case and Lower Case) and password (Alphanumeric).
- **Test Data:** Invalid password will show the warning message (Please Enter Valid Password).
- **Expected Result:** The system will follow the validation pattern.

Test Case 007

- **Test Title: View Booking Cancel Button**
- **Test Procedures:** Customers need to sign in and can cancel the booking when they press the cancel button.
- **Test Data:** Cancel their particular booking record.
- **Expected Result:** Will cancel their booking records from the database.

Test Case 008

- **Test Title: Change Search**
- **Test Procedures:** Customers can change their search according to changing their slots and salons.
- **Test Data:** Click on the button “**Change Search**” from the salon availability page.
- **Expected Result:** Customers can select their new slot with salons.

Deployment

To release our native mobile app, we must submit it to the appropriate app store, Google Play for our Android app. However, we will need a developer account with Google Play Store before launching our mobile app.

While packaging our app for app store submission, use a name and bundle identifier that is different from the QA version of our app. This will help us separate QA and production versions of our app. This way we can continue to test future upgrades to our app prior to releasing them.

An app's release in the app store requires preparing metadata including:

- our app's title
- Short description
- Description
- Category
- Keywords
- Launch icon
- App Store screenshots
- Banner graphic
- Promotional video

Our app requires users to log in, then we will need to provide a test user account as part of the submission process. Once submitted, apps go through the app store review process. This may take a few days, depending on the quality of our app and how closely it follows the app store's guidelines. If rejected, we will be notified with a reason for rejection. After correcting the issues, we can resubmit the app and go through additional review until the app is approved and published in the app store ie. Google play store.

Maintenance

With technologies changing daily, one cannot escape from mobile app maintenance unless one wants to lose their users. With growing technologies, there are better apps every day, and one has to constantly stay ahead of the race to hold back their customers and acquire new ones.

Here are some reasons why we should pay attention to the Maintenance of E Barber.

- Better User-Experience
- Retain existing users and acquire new ones
- To keep up with the competitors

Well, now that we know the reasons for the maintenance of mobile apps, here are the essential things to include in our application maintenance plan.

1. Bug Fixes

Repeated bug issues or unresolved technical problems can drive our app users away. Bug issues cannot just make the User experience terrible, but it can result in the app crashing or failure when left unattended. They may not just frustrate our users but may also prevent them from returning to our app. Hence our mobile app maintenance service package or checklist needs to have regular bug fixes in it.

2. Performance Monitoring

Low performance is equal to more uninstalls or lesser usage. An app with lesser loading time and higher response time will always attract more users, making their online processes quick and seamless. our mobile app maintenance services package cannot be complete without performance monitoring.

3. Operating System Compatibility

This is one of the essential things that any mobile app maintenance services would include in its package. Apps need to be updated regularly along with the new Window, Android and IOS updates. The compatibility of the apps with the operating system highly affects the user experience.

4. Add New Features

New and unique features that enhance the customer experience will always increase sales and yield higher revenue. With plenty of applications to choose from, users tend to select the ones that are simple yet effective. So to add new features to the app is necessary to attract customers. Adding new features is the most crucial part to be included in mobile application development and support plan.

5. Improve User Experience

With Technology growing faster and faster and competitors trying to provide the best technical service possible, it is vital to give a smooth, advanced and enhanced user experience. It is also essential to understand and analyse the analytics like retention and conversion rate, customer usage time, engagement and more to reduce uninstalls. our mobile app maintenance services package must involve—detailed report of the above metrics.

6. License Renewals

Most of the apps these days use technologies that are licensed and incur charges for the same. License renewal charges can come up as sudden shocks to the bank accounts, so it's recommended to keep an eye on license renewal dates and make the necessary payments within the stipulated time. Maintenance of the mobile app also includes maintaining records of the renewals and expenses for the same.

7. Security Checks

Online security is one of the biggest challenges of mobile app development services. Any ignorance in the app security can result in loss of confidential information and cause severe losses to the organization. Hence it is crucial to conduct occasional security checks and improve current safety.

LIMITATIONS

Although this system will provide booking facilities to customers, it is having some limitations. In case of inquiry when customers send their feedback through the system, it will go directly to the staff mailbox. It means the system doesn't have a separate web page for checking all the customer's inquiries and sending replies promptly. Besides the system also doesn't have online banking (Phone Pay, Paytm, Google Pay, UPI) for customers.

FUTURE WORKS

In the future, we will build an IOS APP and we will available our app on both the play store and the app store, We will have flexible booking slots 30mins to as customer's needs, We will add more salons on our app, and as well as We will make our app user experience better.

CONCLUSION

The system is having some benefits for customers too. On the home page, customers can put their email address or phone number for downloading the booking apps directly on their phone. The application will work for both OS platforms (IOS & Android). By This customer can book by using this application. Besides, customers can also book online without registering into the system. Again, customers no need to worry about payment. But for reservations, they need to key in their credit card details for verification purposes. It will not charge them promptly. So, overall this system will give the customers a better user-friendly environment to book online.

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