

Online Daycare & Care Giver Management System

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A Project in the Department of Computer Science and Engineering presented
In fulfillment of the requirements for the Degree of
Bachelor of Science in Computer Science and Engineering



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Dhaka, Bangladesh

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Declaration

We, Pabitra Debnath, Md. Nur A Hasnat Nabil, Rehasun Tanjin Rony and Md. Abu Sufian declare that this project “*Online Daycare & Care Giver Management System*” and the work presented in it are our own. We confirm that:

- This work was done wholly or mainly while in candidature for a BSc degree at United International University.
-
- Where any part of this work has previously been submitted for a degree or any other qualification at United International University or any other institution, this has been clearly stated.
- Where we have consulted the published work of others, this is always clearly attributed.
- Where we have quoted from the work of others, the source is always given. With the exception of such quotations, this project is entirely our own work.
- We have acknowledged all main sources of help.
- Where the project is based on work done by ourselves jointly with others, we have made clear exactly what was done by others and what we have contributed ourselves.

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Certificate

This is to certify that the work presented in the report entitled “*Online Daycare & Care Giver Management System*” is in partial fulfillment of the requirement for the award of degree of Bachelor of Science in Computer Science & Engineering in United International University, Dhaka is an authentic work carried out under my supervision and guidance.

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To the best of my knowledge, the content of this report does not form a basis for the award of any previous degree to anyone else.

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Abstract

Online daycare & caregiver service is becoming a promising business worldwide. Though it's a new idea in Bangladesh. We can reasonably say that the process of searching & acquiring service on the web is becoming common task.

Online daycare & caregiver website is an online web application where the customer can search online for the care for their kids and themselves as well. Through a web browser the customers can search for their service online by its name, package or caregiver's name (profile), later can place an appointment request. The user can login using his account details or new customers can set up an account very quickly. They should give the details of their full name, email account, username and password.

In order to develop the website, a number of Technologies have been studied and understood. These include multi-tiered architecture, server and client-side scripting techniques, implementation technologies such as [Laravel](#), programming language (such as [PHP](#)) and [jQuery](#). Also, it requires domain registration & hosting to keep the service live on the web. This is a project with the objective to develop a basic website where a consumer is provided with a service package, caregiver profiles etc. and also to know about the technologies used to develop such an application.

Even though this system is not well established in our culture yet. But as demands change with necessity, we hope that in near future it could bring good solution for all of us.

Acknowledgement

Thanks to Almighty. Without his grace and blessings that bestowed upon us, we wouldn't have been able to complete the project successfully.

We would like to thank our project supervisor Suman Ahmmed for his continuous support, assistance, encouragement and guidance throughout the project work which helped us to develop this project.

Thanks to our loving Parents, for their kind support, sincere care from the very beginning of our life.

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Chapter 1

Introduction

In this modern era, nowadays people are getting more centralized for work. As a result, the families are getting smaller and smaller. In Bangladesh, to keep pace with the world both men and women are getting involved to work field. So it's very difficult for them to raise their babies properly where husband and wife both involved in jobs. Now they are keeping servant to take care of their babies. But, those servants aren't trained about how to raise babies properly. Besides this, for developing babies' mental growth servant is not enough. So a question should arise how the parents could manage this kind of situation?

Another problem is to take proper care of Aged peoples and Physically Disabled persons of a nuclear family. The solution could be a Daycare center and the Caregiving services. Outside Bangladesh it is very popular, however in Bangladesh it is not established yet. In this Chapter we discussed about how we were motivated to implement an online Daycare and Caregiver management system although it is not common in our country. We have also discussed about the main idea and the challenges for implementing this idea into a real life system.

1.1 Background Study

1.2 Importance

A well-arranged "Daycare Center" and Trained Caregivers will make a great deal to overcome those problems. In the cities it will be a useful idea for the people who doesn't have enough time for their families. We have multiple Daycare center so that our user can choose center on their nearby locality. We are providing basic education and healthy food, playing zone etc. for babies which will make babies more comfortable. Our Caregivers are well trained and experienced to take proper care of aged peoples and physically disabled persons.

1.3 Targeted Users

Target users are mainly nuclear families where both men and women are involved in work-field who doesn't have enough time for their families. Moreover, all type of user are more welcome to our system.

1.3.1 Our Work

We have implemented a system where our user can get information about our daycare centers, they can choose center, can choose packages as per their preferences, they can add their baby profile, can see the drop off time and exit time off baby, can chat with admins for any query and other user. Moreover, user can see the caregivers profile, they can search caregivers by category, contact with admin for booking caregivers.

1.4 Motivation

In Bangladesh this service is not very familiar, but the problem is huge. So this system will be very promising in future. Many of the system of abroad, they only provide either daycare service or Caregiver service. But user could need both services and that's why we are providing both Daycare center and caregiving service. We are offering multiple packages to our user so that they can choose packages as their need. We are giving multiple categorized well trained Caregivers to our users so that user can get exactly what they need.

1.5 Features Missing in Others Work

Other systems missed to provide both daycare and caregiving services. They are providing only one service. Although those systems covered almost all common features like multiple centers & secure booking, E-banking and so on. But this unique and potential idea was not implemented at all. Moreover, their packages are not user friendly as ours.

1.5.1 Our Work

We have covered all the common features of a Daycare center and also caregiving services like providing a well arranged daycare center, well trained babysitters, providing basic education, healthy food, playing zone, well trained caregivers, various types of caregivers so that user can select one as their preference etc. In addition to this, we are providing the record of the drop off time and exit time to parents so that they can get notified about their baby.

Chapter 2

Requirement Analysis

2.1 Benchmarks

Before we proceed to our Project work, we studied several existing systems matching our requirement goals to achieve detailed knowledge about required features for our own system. Out of the existing systems, these following systems we've chosen as our benchmark based on their popularity:

- Kinder Care (www.kindercare.com)
- Bright Horizon (www.brighthorizons.com)
- Sitter city (www.sittercity.com)
- Sitters.co.uk (www.sitters.co.uk)

2.1.1 Kinder Care

KinderCare Learning Centers, is an American operator of for-profit child care and early childhood education facilities. It was founded in 1969, and owned by KinderCare Education. The company provides educational programs for children from six weeks to 12 years old. Its headquarters are in Portland, Oregon. They have several branches all over United States. They only have Daycare facilities. They don't provide caregiving/babysitting services.



2.1.2 Bright Horizon

Bright Horizons Family Solutions is a United States–based child-care provider and is the largest provider of employer-sponsored child care. It is headquartered in Watertown, Massachusetts. Bright Horizons operates more than 900 child care centers worldwide, more than 600 across the U.S. and more than 300 in the UK and Ireland. This company also have centers in Canada, Puerto Rico, India and the Netherlands. It provides only Daycare services, not providing personal cares for home service.



2.1.3 Sitter city

Sitter city is an American online marketplace created for families, individuals and corporate employees those are wishing to hire local in-home care services. It was founded in 2001. Various types of caregivers that can be found on Sittercity.com include babysitters, pet sitters, elderly care providers, and housekeepers. The site currently has over 5 million registered caregivers. They don't have daycare facilities of their own.



2.1.4 Sitters

Sitters.co.uk is a United Kingdom based caregiving online service providers. It was established in 1999. Later on, it was merged with a company, which is London based, named **Childminders**, a long established babysitting service. which had been in continuous operation since 1967. Their services include Daytime childcare, Evening care, Hotel & Holiday care, Emergency childcare etc. They don't have Daycare services. And caregiving supports only for children, Not available for Elderly citizen or people with special needs.



2.2 Functional Requirements

- User can search for caregivers
- User can find service centers
- User can create/attend/request daycare & caregiving service
- User can buy service package
- User can manage their profile
- User can communicate with friends & admin as well

2.3 Non Functional Requirements

- Security
- Performance
- Flexibility
- Accessibility
- User friendly

2.4 Development Model

We are using following Waterfall SDLC Model for our proposed system to ensure every stage of development is being designed & developed systematically.

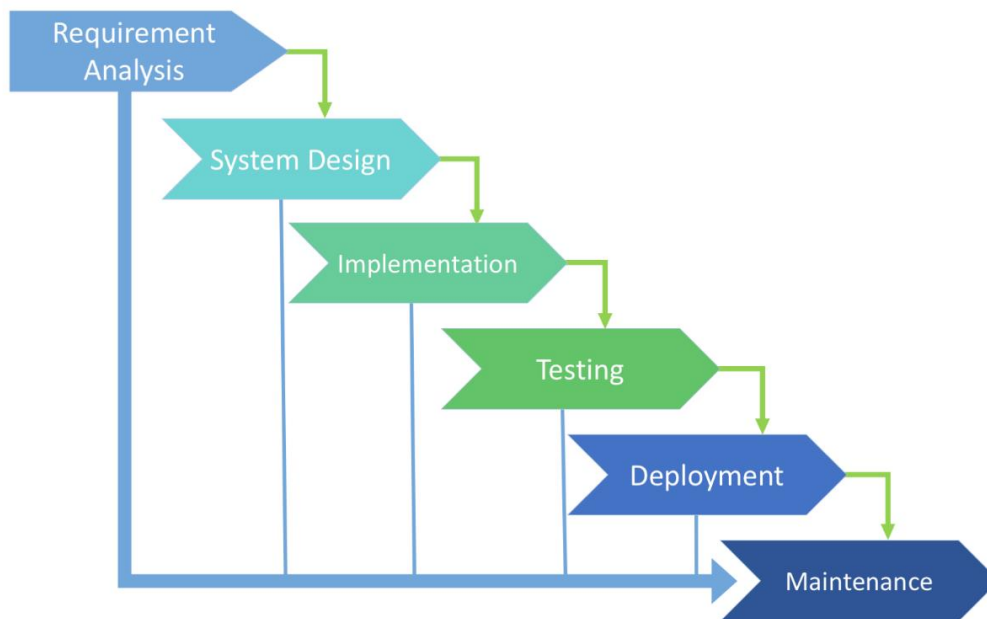


Figure 2.1: Waterfall SDLC Model

2.5 Benchmark Comparison

In this following figure we have tried to show the comparison of the key features of our benchmark systems and our proposed systems.






Features	 KinderCare LEARNING CENTERS	 Bright Horizons FAMILY SOLUTIONS	 Sittercity	 sitters co.uk	 Care Giver
Log In/ Register	✓	✗	✓	✓	✓
Owned Daycare Center	✓	✓	✗	✗	✓
Rating	✗	✗	✓	✗	✗
Chatting	✓	✗	✗	✓	✓
Education Support	✓	✓	✗	✗	✓
Package System	✗	✗	✗	✗	✓
Map based Searching	✓	✓	✗	✗	✗
Caregivers for home service	✗	✗	✓	✓	✓

Figure 2.2: Benchmarks systems VS our propose system (CareGiver)

Chapter 3

Overview of the Project

In this section, we will discuss how our proposed system works from the aspect of both user and admin side.

3.1 Project Idea

Rapid changes in the family structure of our society, particularly in the Urban areas. Besides, both men and women equally active in the job field and find it hard sometimes to take care of their babies or under aged children. So we have proposed a system where they would be able find daycare centers easily around the specific areas as their preferences. In addition to that, we have also created a system where people would be able to find caregivers as per their needs. Thus, we will be able to provide both daycare and caregiver service at the same time through our proposed system.

3.2 Project Description

Our proposed system has several functionalities though which user will be able to have access the services at ease. After studying our benchmark systems, we have selected the most useful features out of these and included more features which were absent in those systems. In the following sections, we will be discussing about the features and functionalities that our system will cover.

3.2.1 Membership

Users can view the whole website without being registered and see certain information. But to get the services and get the full access to the site they must be registered themselves providing basic information like Name, Email, Contact No. etc.

3.2.2 Area Based Centers

There will be several centers all over the city (As we are assuming our service will only cover Dhaka city initially) based on the area covered. User can easily find the centers from the homepage of the site as their nearby locality. Each center is assigned with center admin who will manage the center. User will be able to see the detailed information of those centers i.e. Seat availability, Special facilities etc.

3.2.3 Caregivers

In the site, there is a sections where user will be able to see available Caregivers. All these caregivers will be registered upon verification by our system manually. User can choose caregivers as per their specific needs. To book caregiver, user will have to contact to our system directly.

3.2.4 Messaging

Registered users can talk to each other as well to admins interactively through chatting option.

3.2.5 FAQ

Selective queries asked by user and their answers will be available here.

3.2.6 Booking

For using daycare service, user can easily book a seat in their preferred center through the system. First, they need to add their children's information, then select a suitable package as their need. After making payment through online banking their booking will be confirmed.

3.2.7 Packages

There will be several packages for the users. These packages will be created based on the duration of the services. User can choose the packages as their choices. They can change the packages after getting done with the services once taken. None of our benchmark system has this feature.

3.2.8 Profile Management

User will be able to update their profile providing basic information as well their babies. For caregivers, all the information will be collected by us.

3.3 Key features

From all the features, these are the key features we have:

- ✓ **Both daycare and Caregiving service:** None of our benchmark sites have this feature. We will provide both of these services.
- ✓ **Caregivers:** Registered caregivers with different specialization based on the needs of the user. As example: Special child care, Elderly care etc.
- ✓ **Area based Multiple Daycare centers:** User can find center nearer to their living area.
- ✓ **E-payment:** Payment can be done by online mobile banking. System will track the transaction number.
- ✓ **Package system:** Packages of services based on the duration. User can choose three packages like daily, weekly, monthly. Each packages come up with different benefits.

3.4 Screenshots of the Website

In this chapter we will show the whole websites features and works by screenshots.

3.4.1 General View

- **Homepage**



Figure 3.1: Screenshot of Homepage Part 1

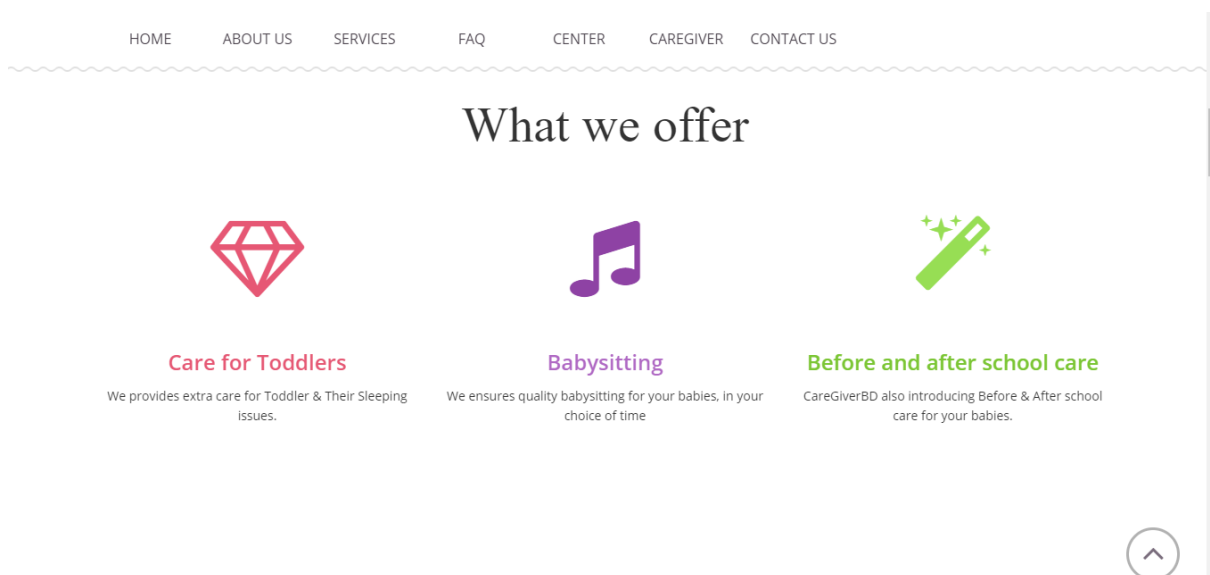


Figure 3.2: Screenshot of Homepage Part 2 [What we Offer]

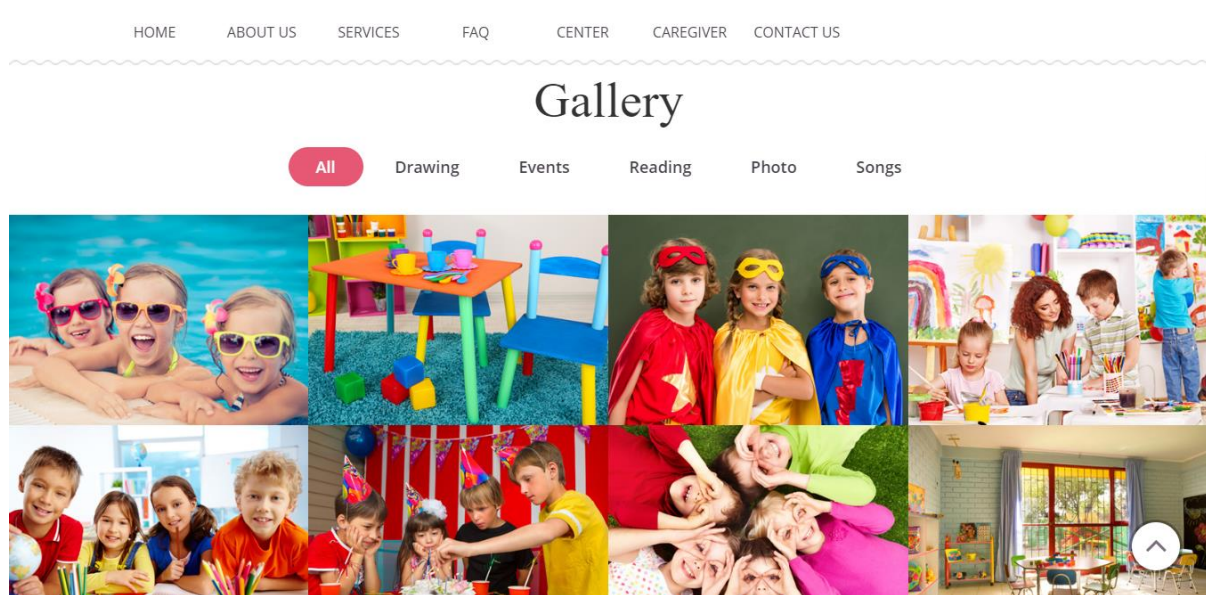


Figure 3.3: Screenshot of Homepage Part 3 [Gallery]

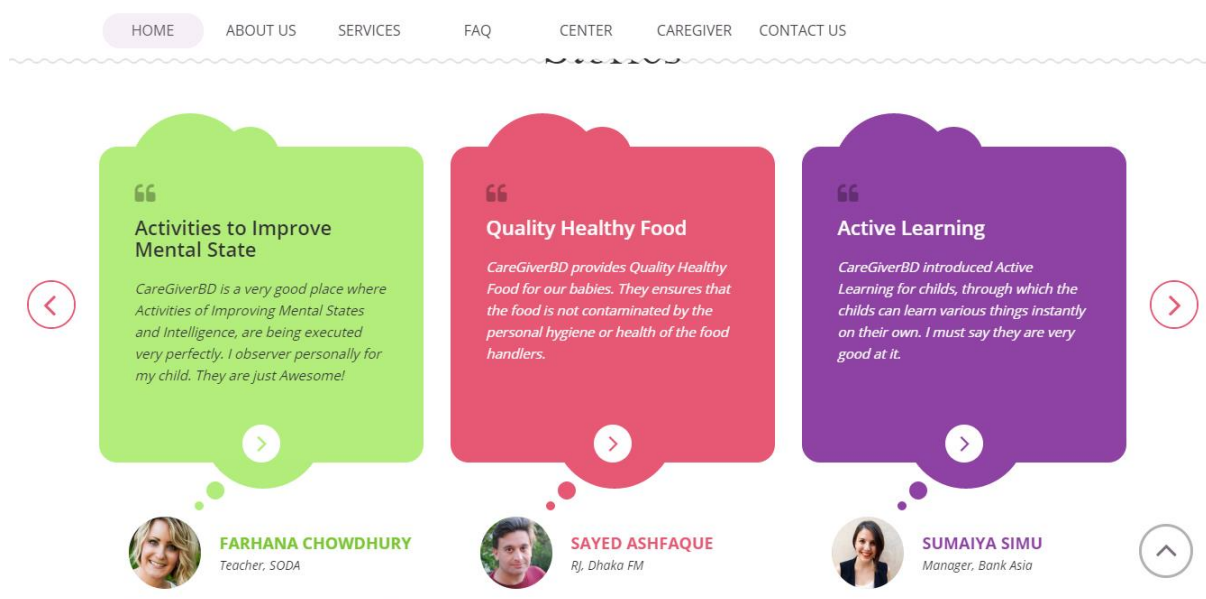


Figure 3.4: Screenshot of Homepage Part 4 [Users Feedback]

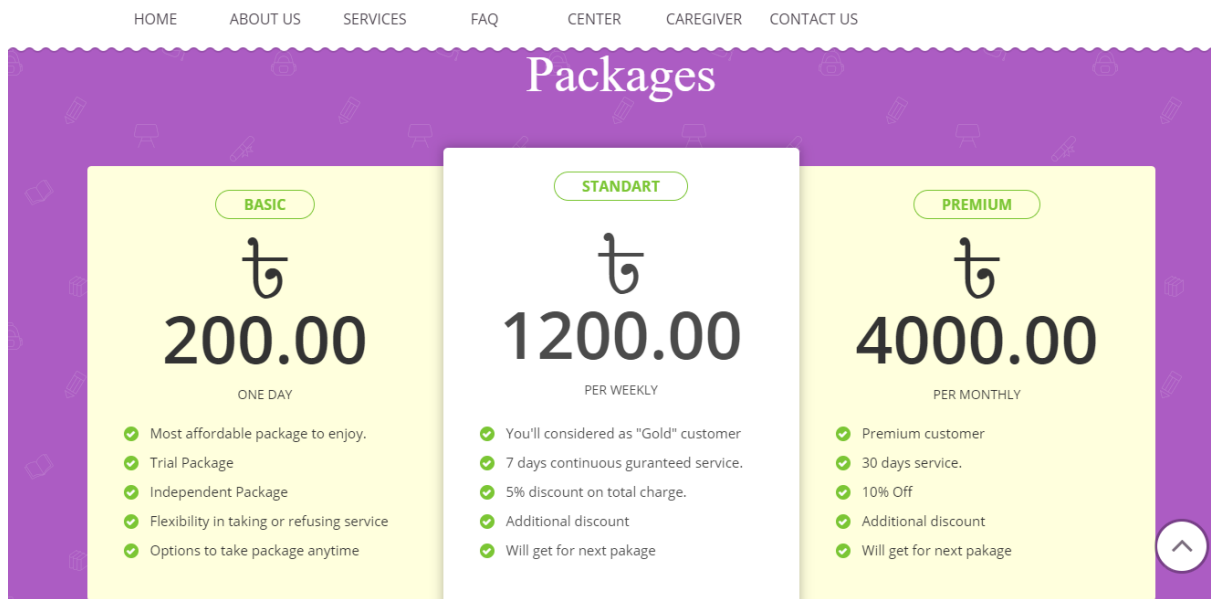


Figure 3.5: Screenshot of Homepage Part 5 [Package Pricing]

- **About Us**

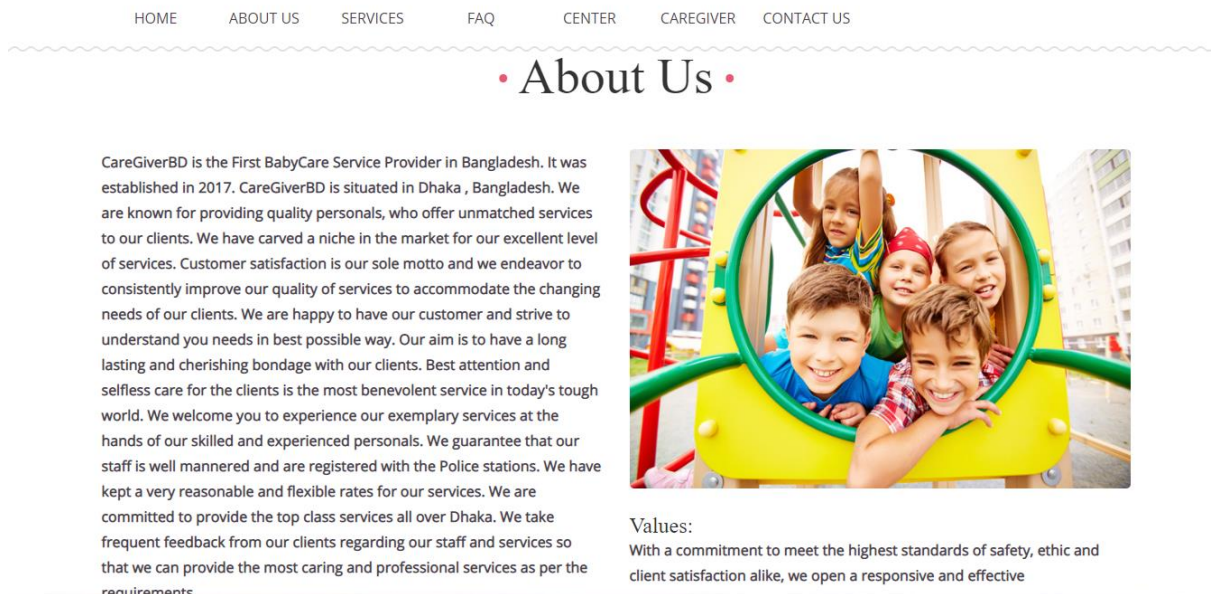


Figure 3.6: Screenshot of *About Us* Part 1

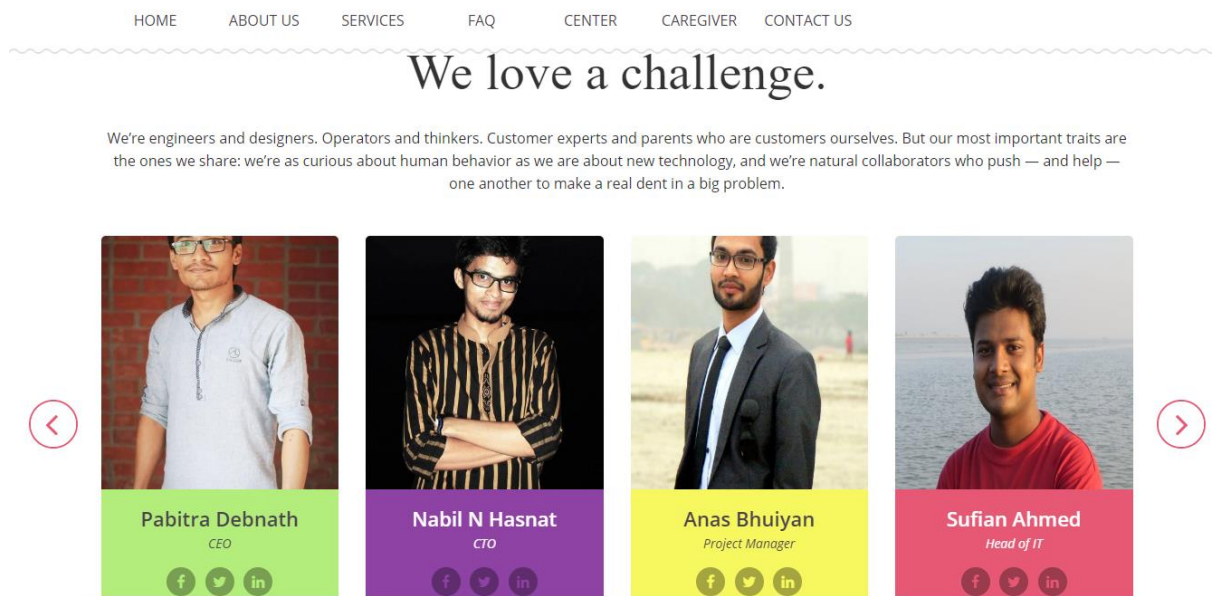


Figure 3.7: Screenshot of *About Us* Part 2 [Our Team]

- **Services**

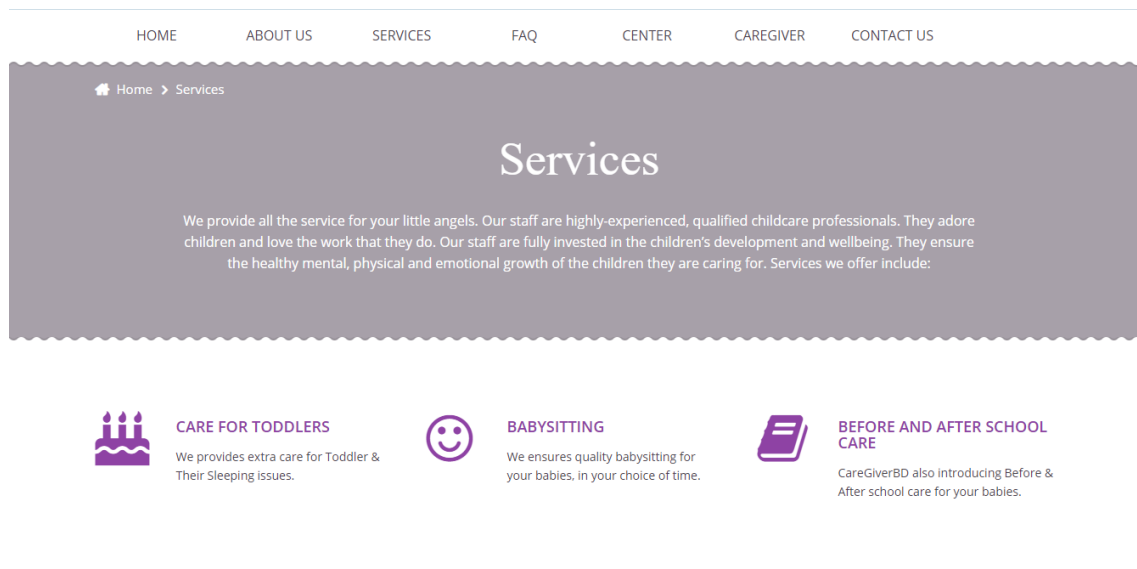


Figure 3.8: Screenshot of *Services* Part 1

BENIFITS OF YOUR CHILD, FROM OUR SERVICE

From our service you & your child will be benifited in various ways. Here we've highlighted some benifits...



FRIENDSHIP

Stay-at-home parents value the regular play dates they arrange with families and neighbors with kids of a similar age. Daycare interaction is an extension of this phenomenon, where kids get to spend time around one another in a supervised, structured and safe environment. Kids learn how to problem-solve, share and otherwise play and learn well



ACADEMIC ADVANCEMENT

An extensive study by the U.S. National Institutes of Health found that young children had higher cognitive and academic achievement scores as teens if they spent time in high-quality daycare as young children. Of the more than 1,300 children studied, over 90 percent had been in the care of someone other than a parent before the age of 4.



SMOOTHER TRANSITION TO KINDERGARTEN

A study at the University of Texas at Austin found that parents who enrolled their children in daycare were more involved in school life as their kids got older. This choice benefited not only the parents, who had greater involvement in their children's structured academic life, but the youngsters

Figure 3.9: Screenshot of *Services Part 2*

Best for your kids!

We always considers what is best for your child. Here are some of these concerns..



Education

An extensive study by the U.S. National Institutes of Health found that young children had higher cognitive and academic achievement scores as teens if they spent time in high-quality daycare as young children. Of the more than 1,300 children studied, over 90



Healthy Food

We ensure healthy foods for your babies. We took special care on this matter. CareGiverBD provides Quality Healthy Food for our babies. They ensures that the food is not contaminated by the personal hygiene or health of the food handlers.



Events

We Organize Various Events only for your special angels. In these events they can participate in various activities & can have great fun, which is very necessary by the way.



Games

Gaming is a modern way, through which your children can achieve expertise to increase their mental strength & many more activities.

Figure 3.10: Screenshot of *Services Part 3*

- **FAQ**

• FAQ •

Frequently Asked Questions.

Can I have the same babysitter each time I book?

Wherever possible your bookings will be offered first to your preferred childcarers (you can let us know who your top 3 favourite babysitters are). One of the strengths of Sitters' service is that we will always endeavour to find you an experienced and reliable babysitter, local to you. Many of our childcarers have commitments to their own families and it may not always be possible to supply the same babysitter on every occasion. In practice families find that they get to know two or three local babysitters who cover most of their bookings. We'll send you an email as soon as we've filled any bookings you make - with details about your Sitters childcarer

Can Sitters provide care for my children during the day (child daycare)?

Absolutely! Our sitters are available for daytime childcare in your own home. We all have times when we have to attend an appointment, meeting or function where it's easier if children are looked after at home. Perhaps you need to work from home and could do with an extra pair of hands to take care of your children? Many parents find this service particularly useful during school holidays and as emergency cover at home when other childcare arrangements fail (if your childminder falls ill, or if your child is unwell and cannot attend school/nursery).

Figure 3.11: Screenshot of *FAQ*

- **Center**

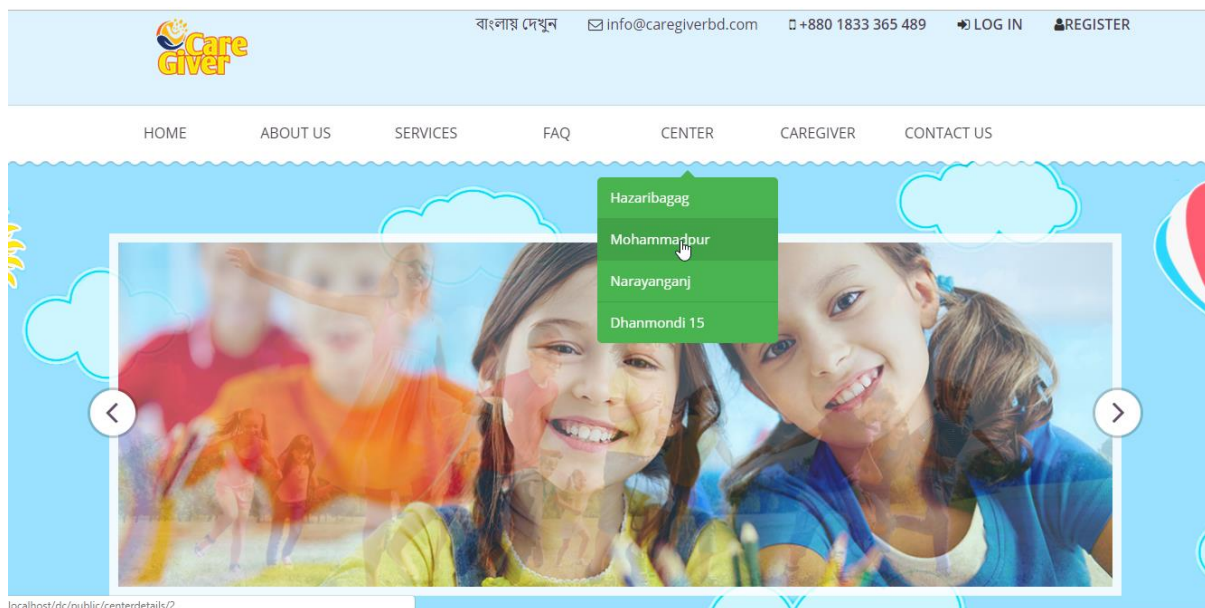


Figure 3.12: Screenshot of *Center (Branch List)*

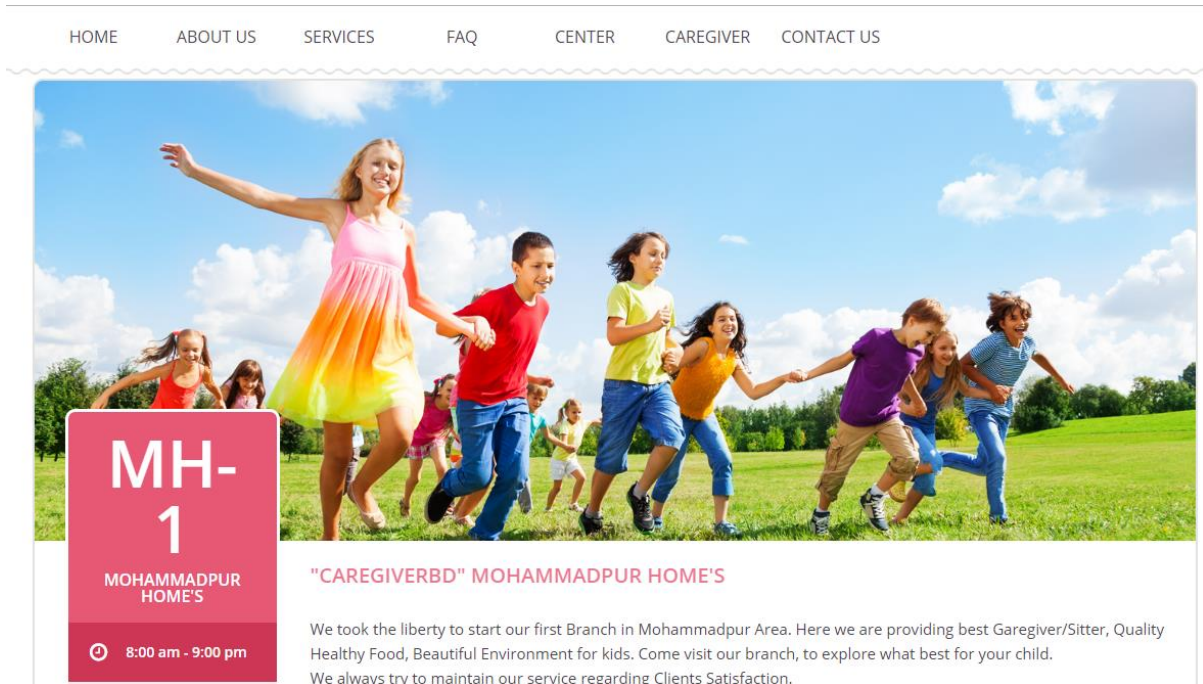


Figure 3.13: Screenshot of *Center (A Single Branch)*

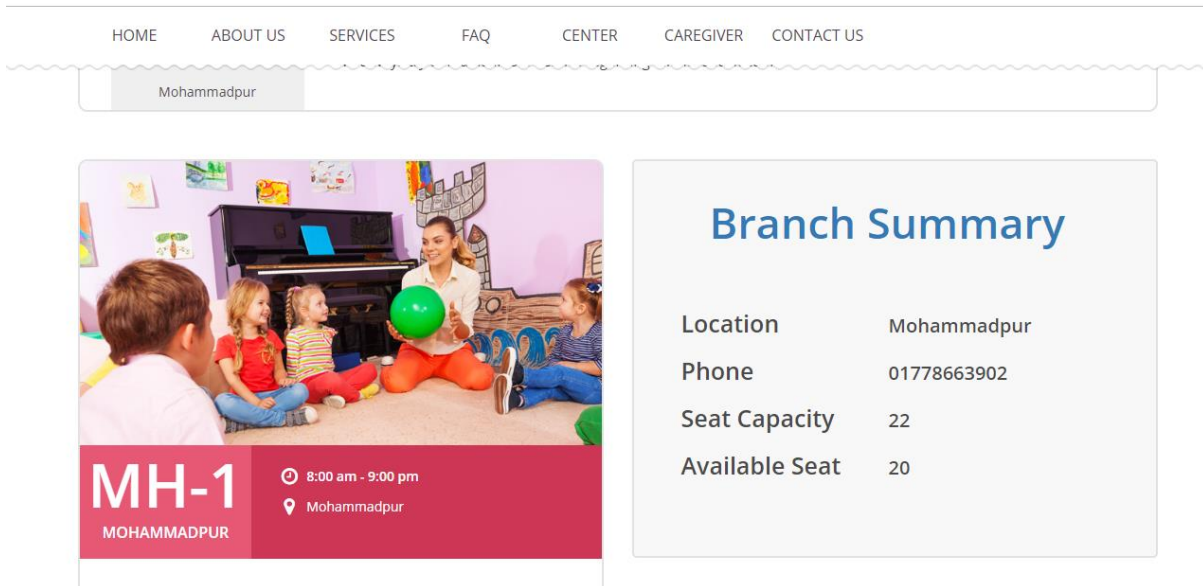


Figure 3.14: Screenshot of *Center (A Single Branch's Summary)*

- Caregivers

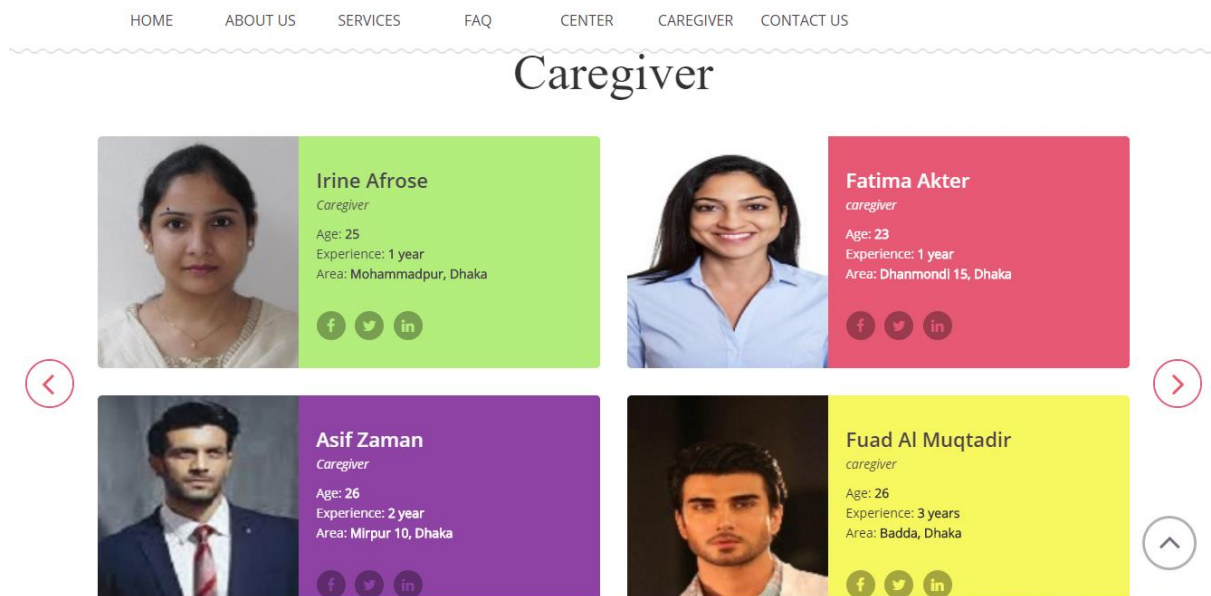


Figure 3.15: Screenshot of *Caregivers* (All without categorized view)

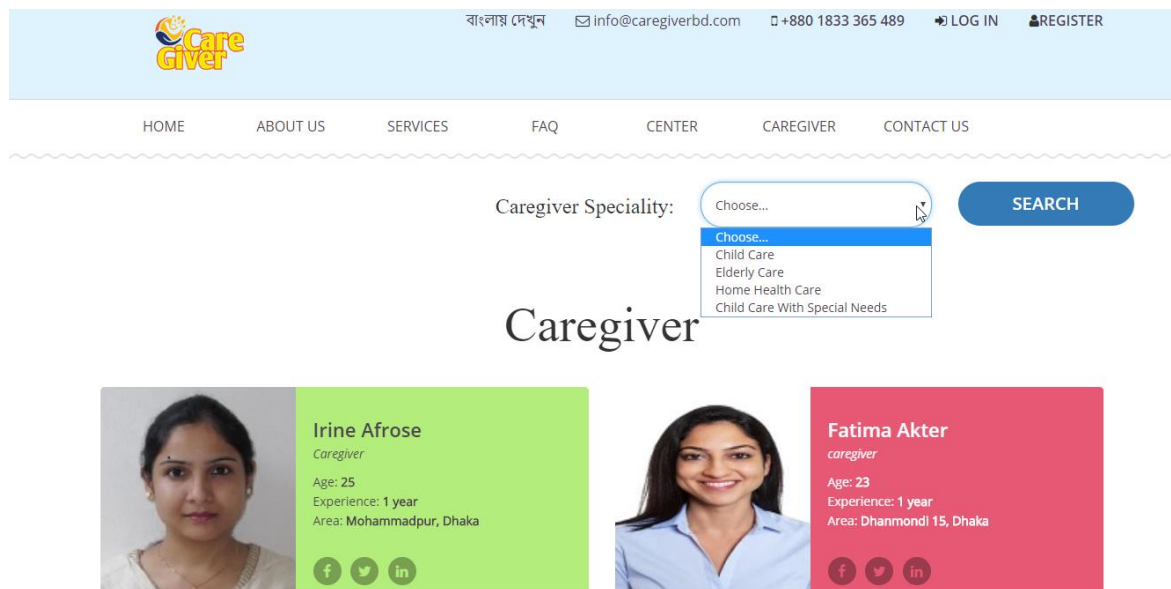


Figure 3.16: Screenshot of *Caregivers* (Available Categorized Search)

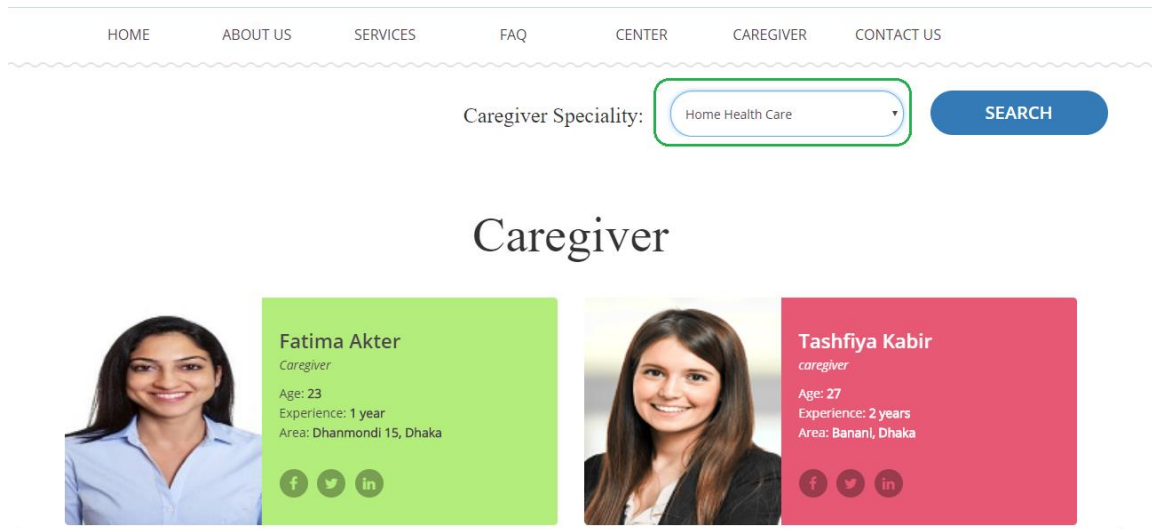


Figure 3.17: Screenshot of *Caregivers (Categorized Search)*

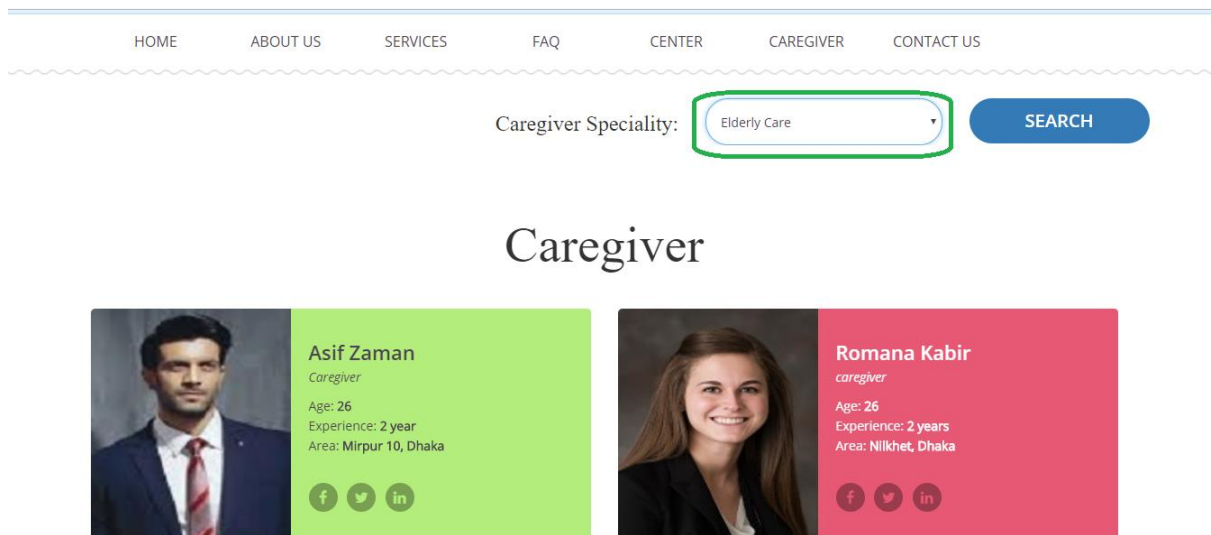


Figure 3.18: Screenshot of *Caregivers (Categorized Search)*

- **Contact Us**

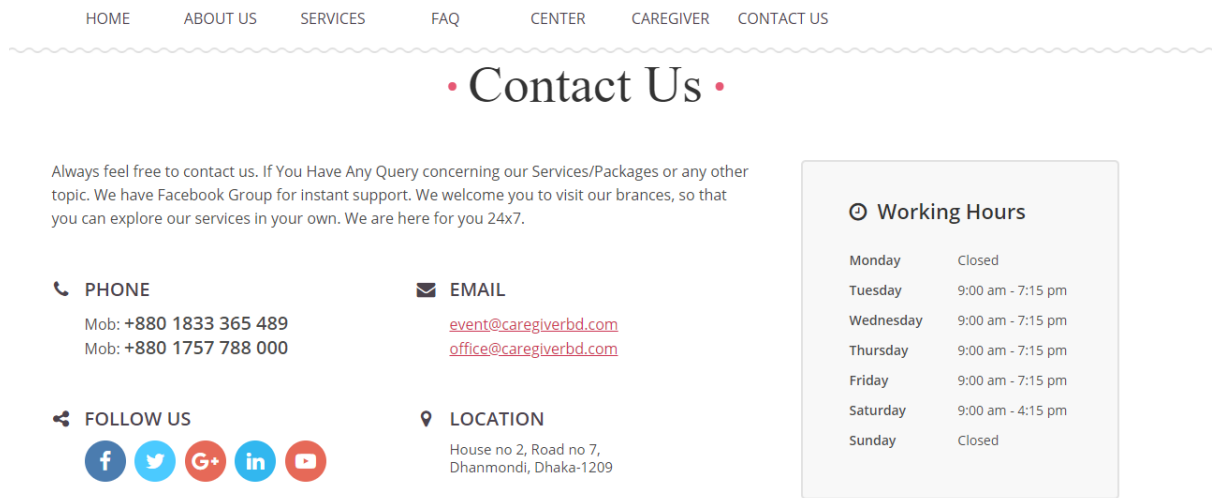


Figure 3.19: Screenshot of *Contact Us*

- **Login**

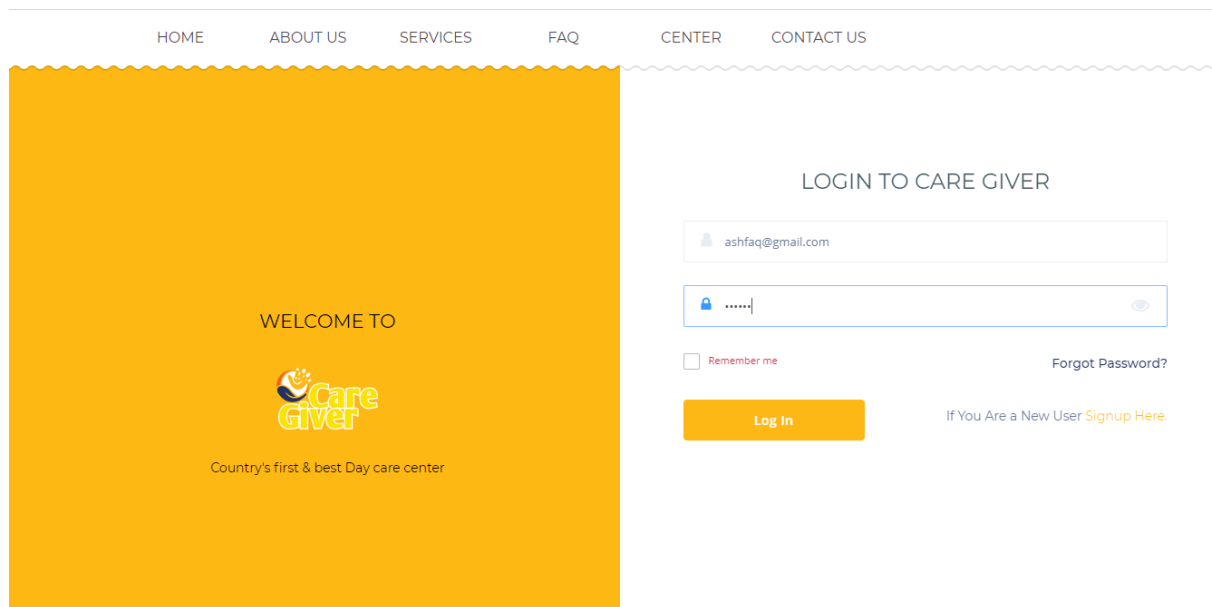


Figure 3.20: Screenshot of *Log In Page*

- Register

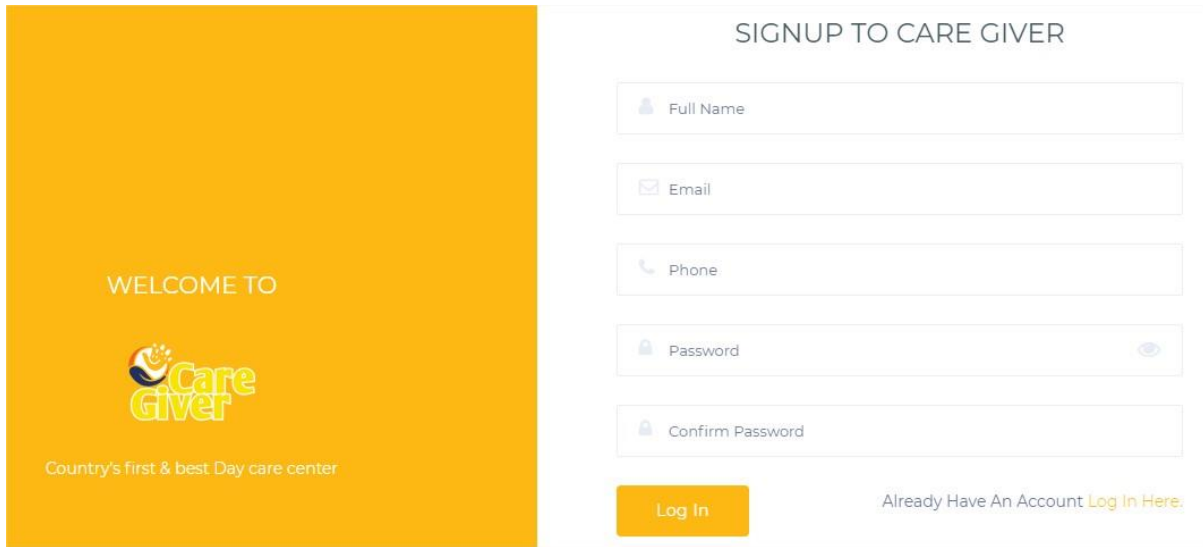


Figure 3.21: Screenshot of Sign Up Page

3.4.2 User

- User Dashboard

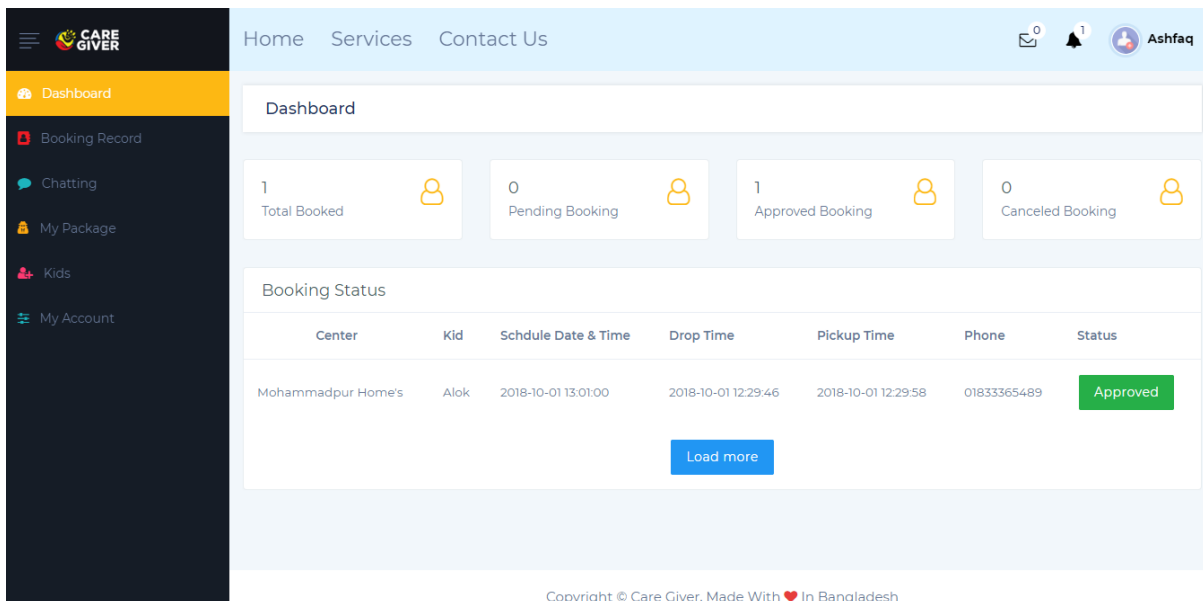


Figure: 3.22 Screenshot of User Dashboard

- Packages

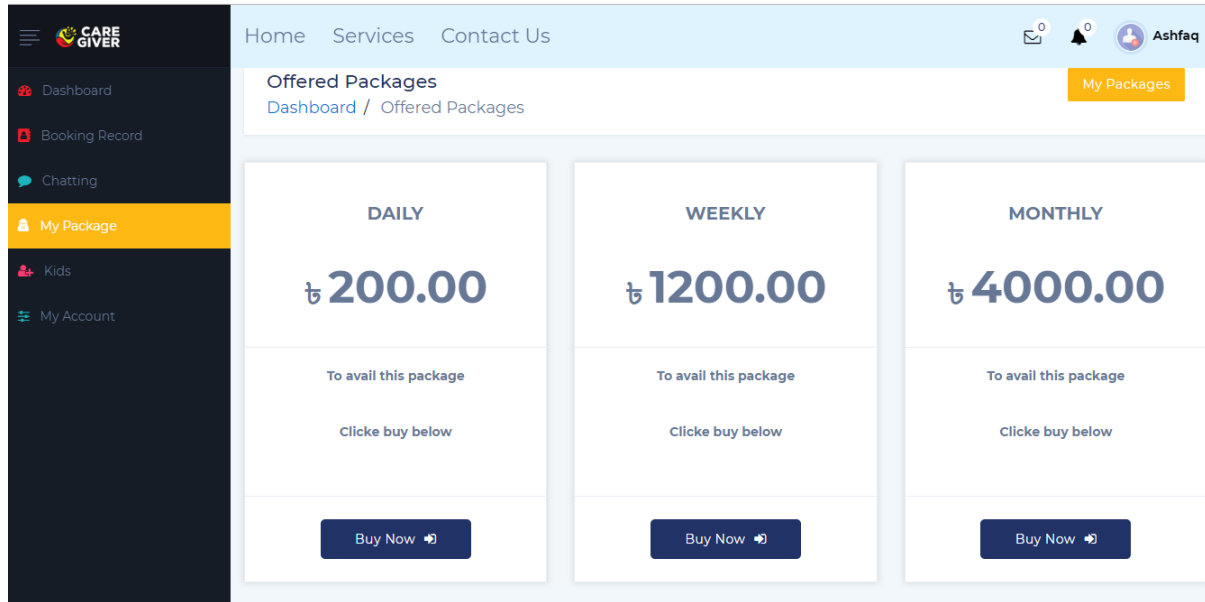


Figure 3.23: Screenshot of Packages

- Buy Packages

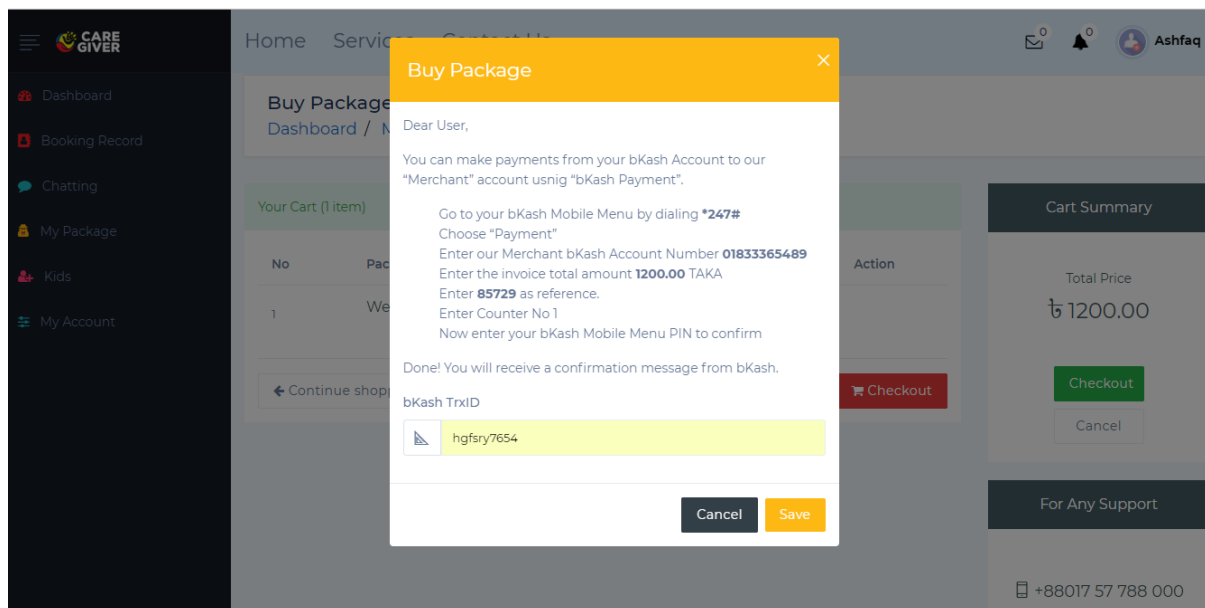


Figure 3.24: Screenshot of Buying packages

- **Add Booking**

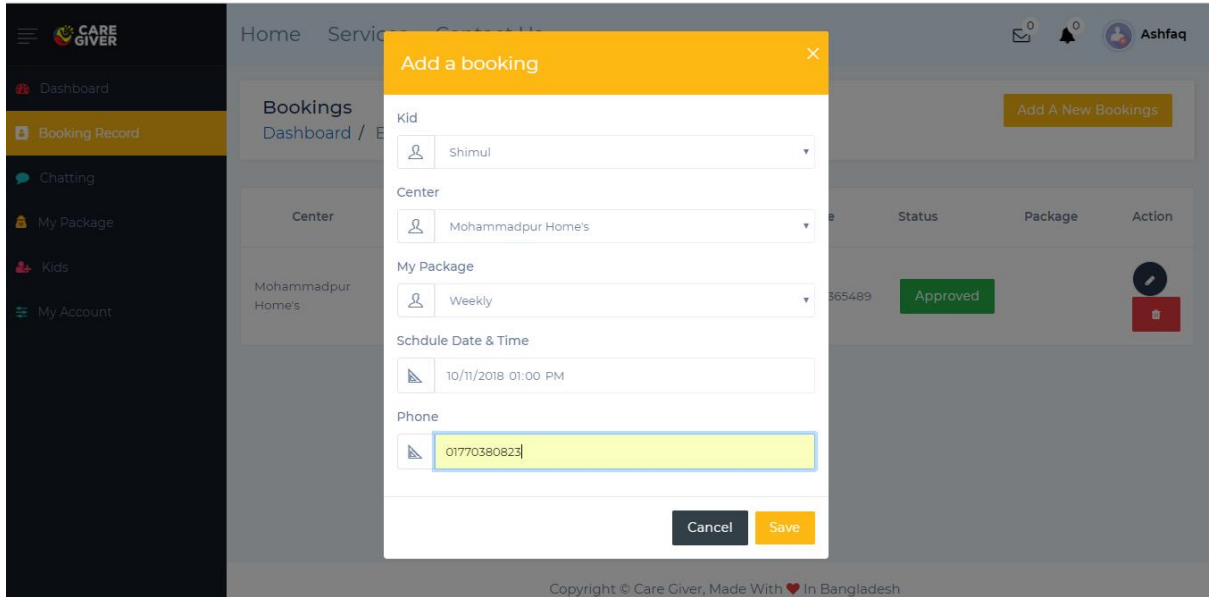


Figure 3.25: Screenshot of Add Booking

- **Notification**

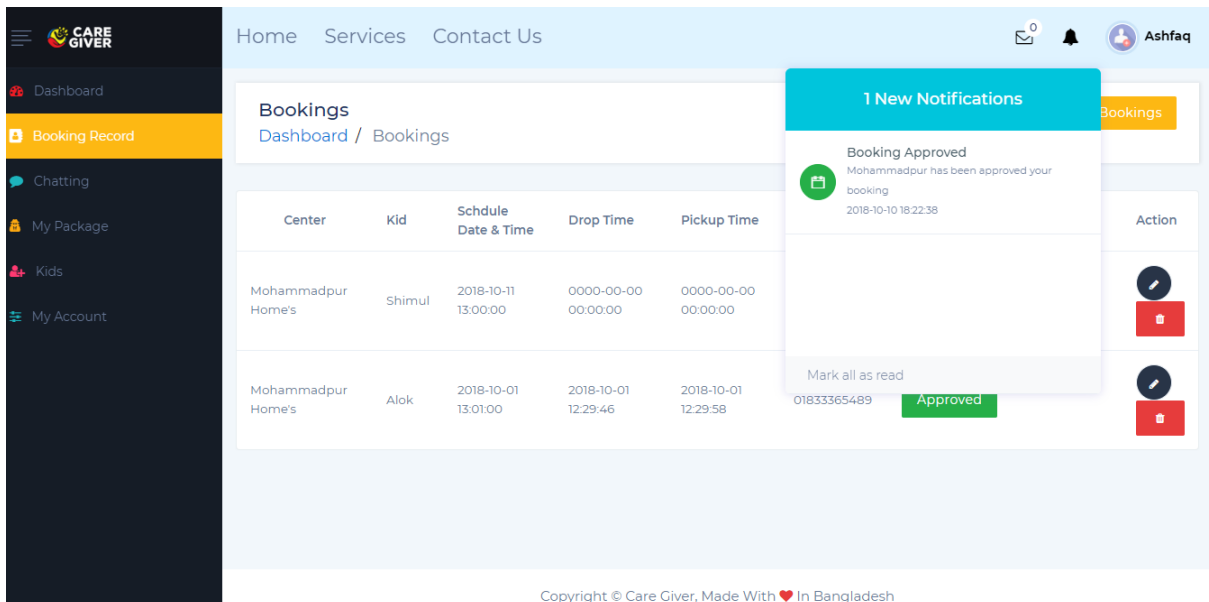


Figure 3.26: Screenshot of Booking approve notification

- **Profile Management**

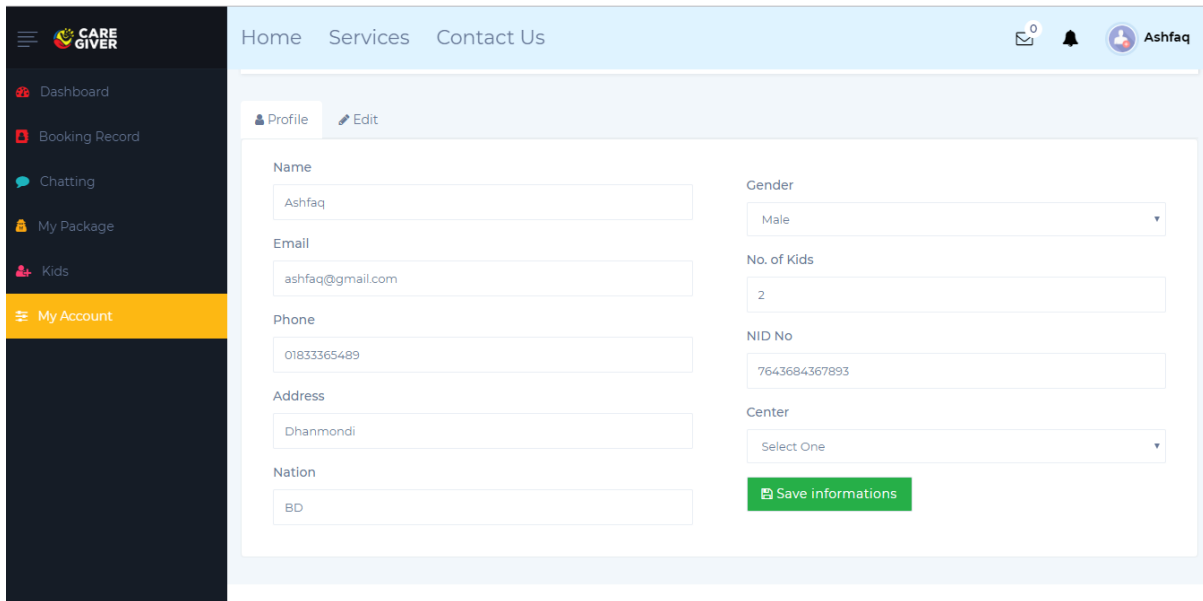


Figure 3.27: Screenshot of Profile Management of user

- **Messaging**

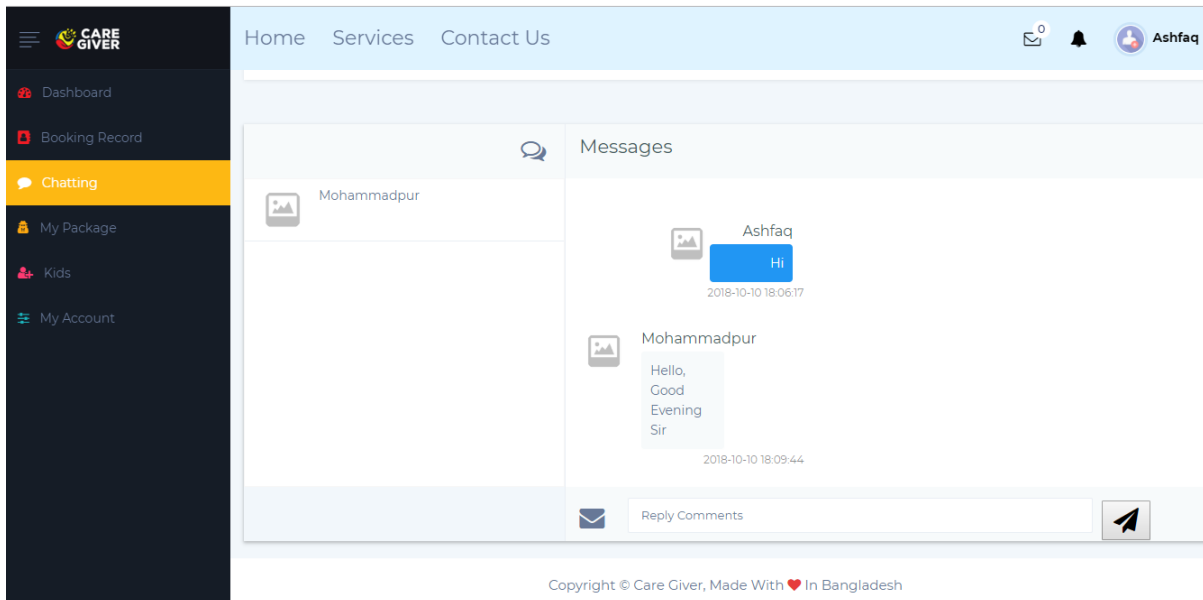


Figure 3.28: Screenshot of Chatting

3.4.3 Center Admin

- **Center Admin Dashboard**

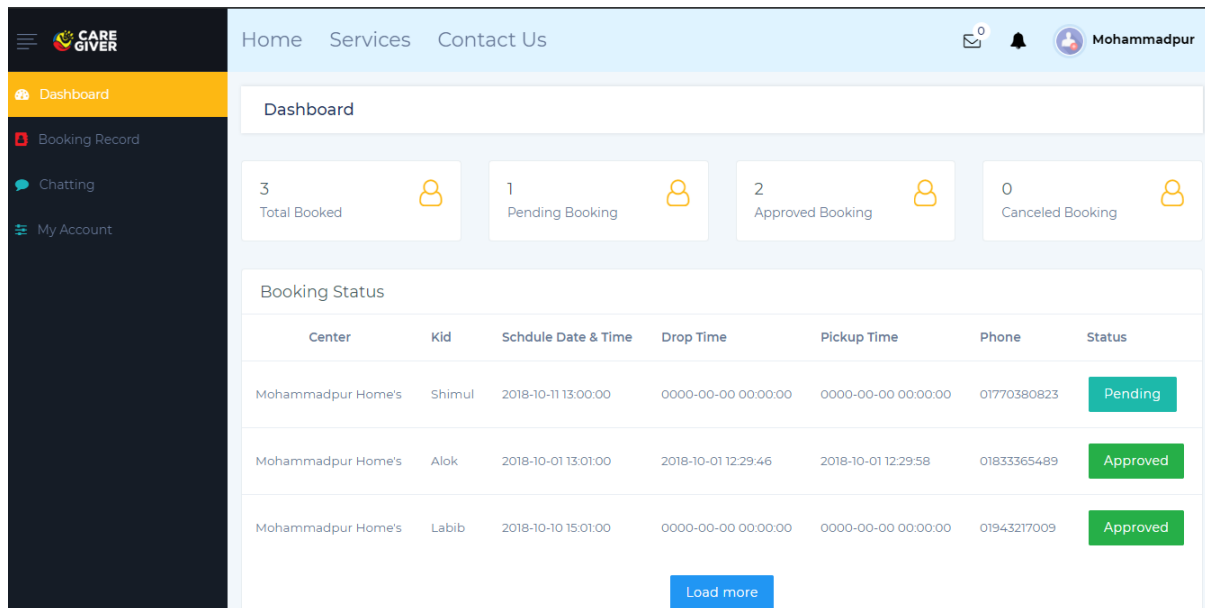


Figure 3.29: Screenshot of Center Admin Dashboard

- **Booking Record Management**

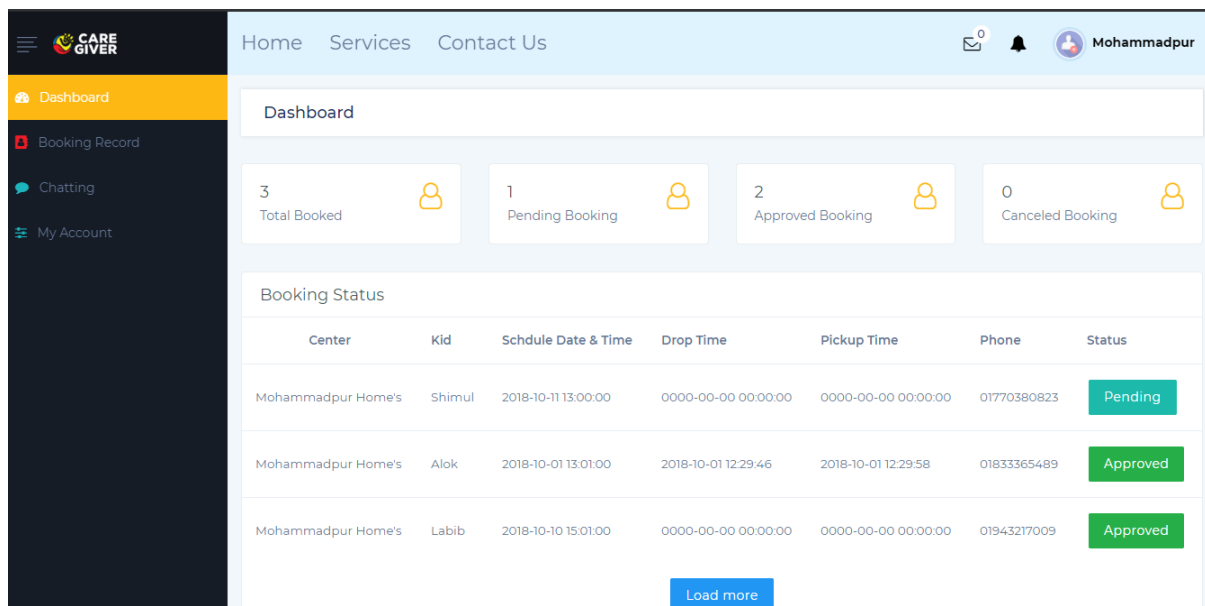


Figure 3.30: Screenshot of Booking record management

- **Booking Check In/ Check Out Log**

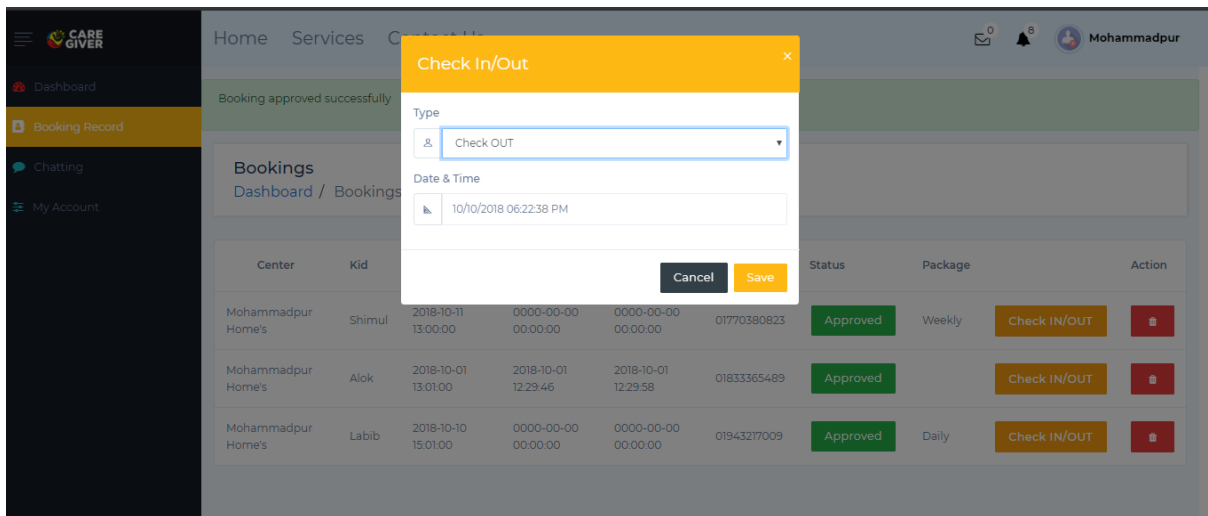


Figure 3.31: Screenshot of Check in/ Check Out Log

3.4.4 Super Admin

- **Super Admin Dashboard**

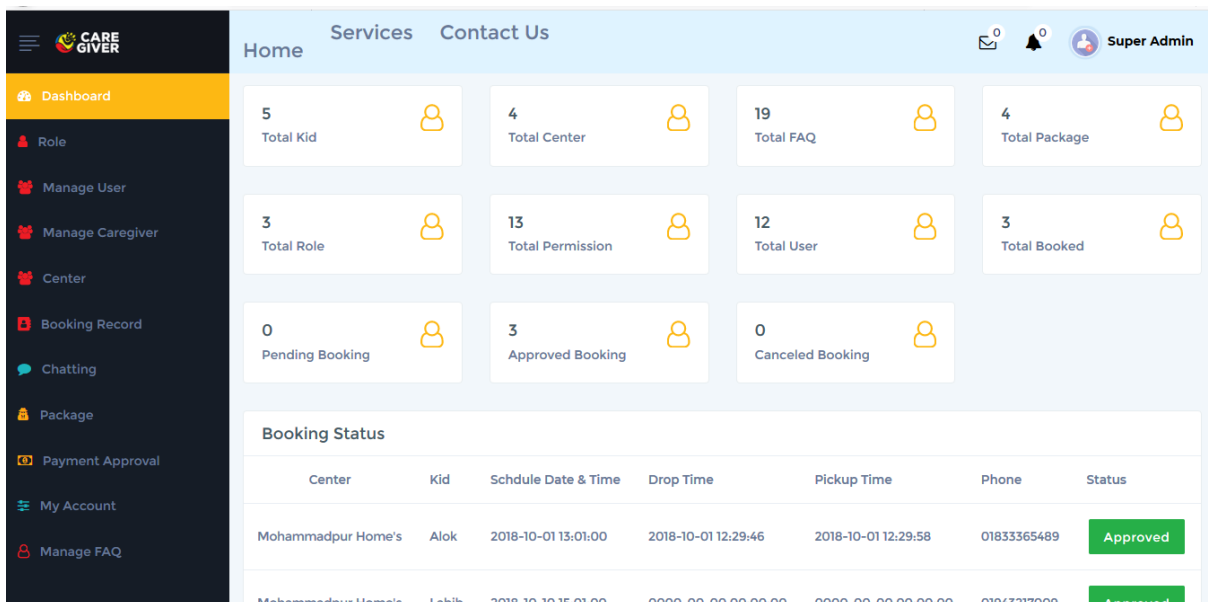


Figure 3.32: Screenshot of Super Admin Dashboard

- **Admin Role Management**

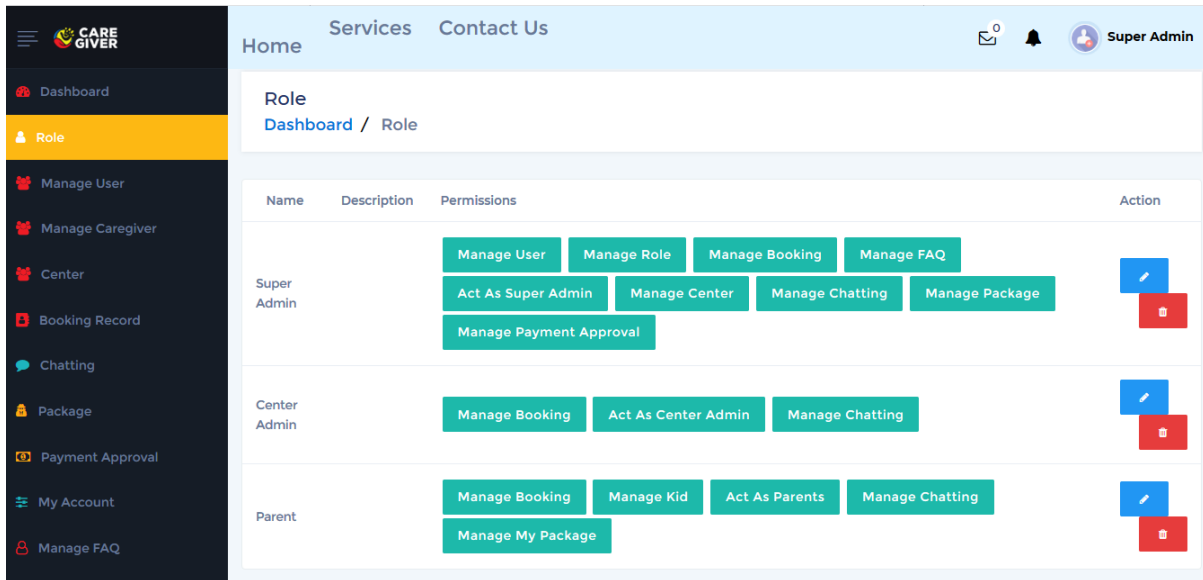


Figure 3.33: Screenshot of Admin Role Management

- **Admin User Management**

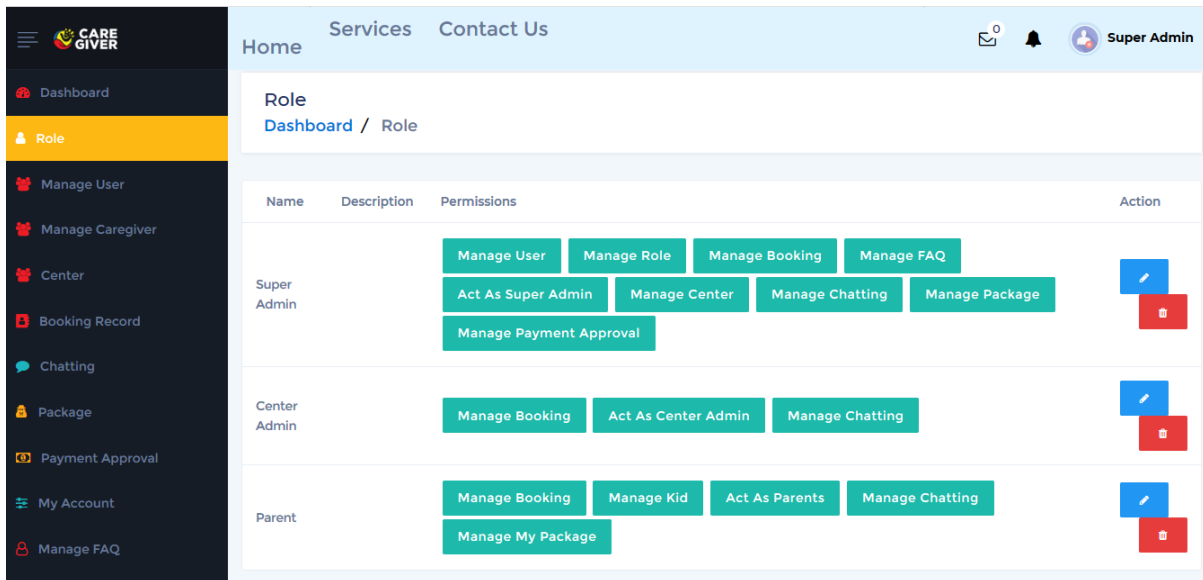


Figure 3.34: Screenshot of Admin User Management

- **Admin Caregiver Management**

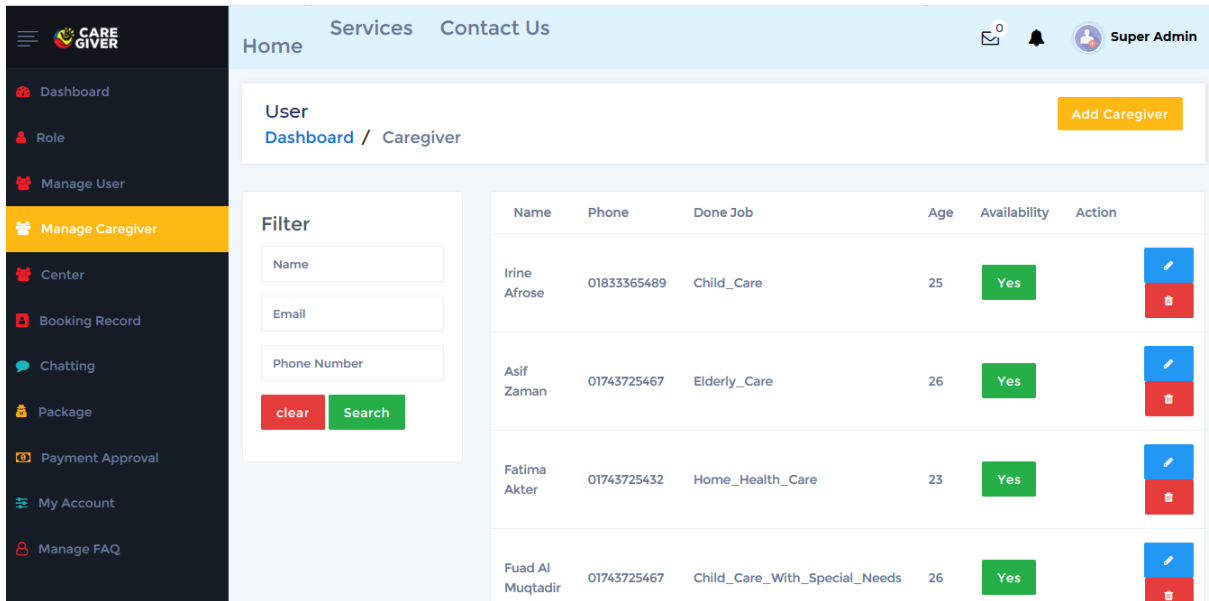


Figure 3.35: Screenshot of Admin Caregiver Management Part 1

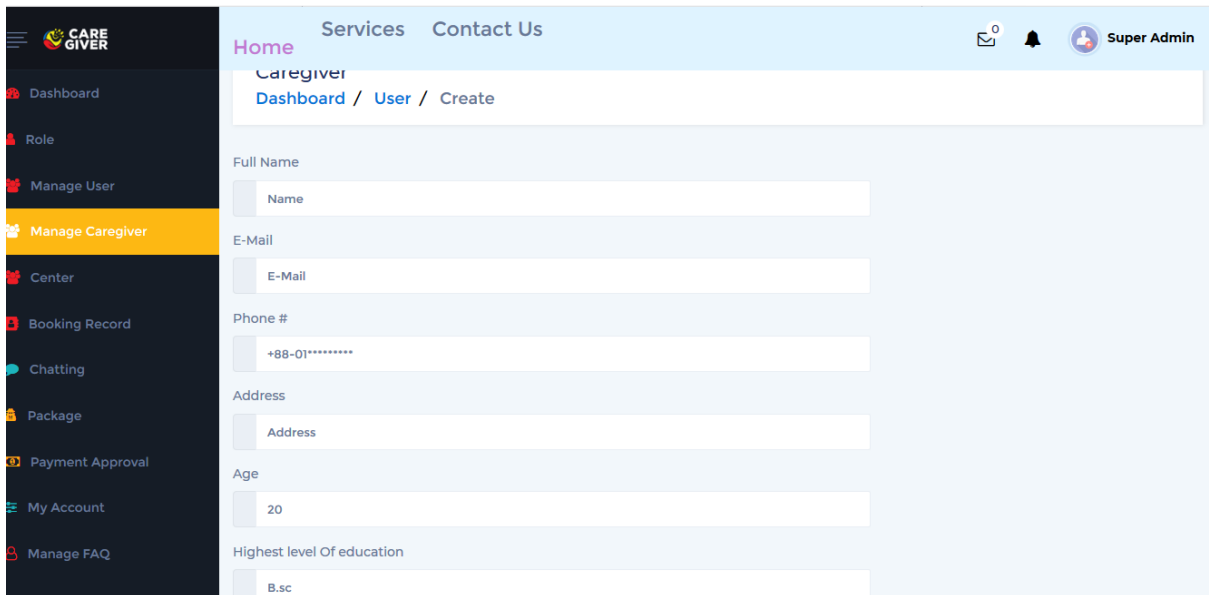


Figure 3.36: Screenshot of Admin Caregiver Management Part 2

- **Center Management**

Home Services Contact Us 0 0 Super Admin

Centers Add A New Centers

Dashboard / Centers

Title	Location	Capacity	Assign User	Phone	Action
Hazaribag Home's	Hazaribagag	19	Nabil	01778663902	
Mohammadpur Home's	Mohammadpur	21	Mohammadpur	01778663902	
Narayanganj care	Narayanganj	29	Anas	01778663902	
Dhanmodi Hom's	Dhanmondi 15	25	Center Admin	01778663902	

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Figure 3.37: Screenshot of Center Management

- **Package Management**

Home Services Contact Us 0 0 Super Admin

Centers Add A New Centers

Dashboard / Centers

Title	Location	Capacity	Assign User	Phone	Action
Hazaribag Home's	Hazaribagag	19	Nabil	01778663902	
Mohammadpur Home's	Mohammadpur	21	Mohammadpur	01778663902	
Narayanganj care	Narayanganj	29	Anas	01778663902	
Dhanmodi Hom's	Dhanmondi 15	25	Center Admin	01778663902	

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Figure 3.38: Screenshot of Package Management

- **FAQ Management**

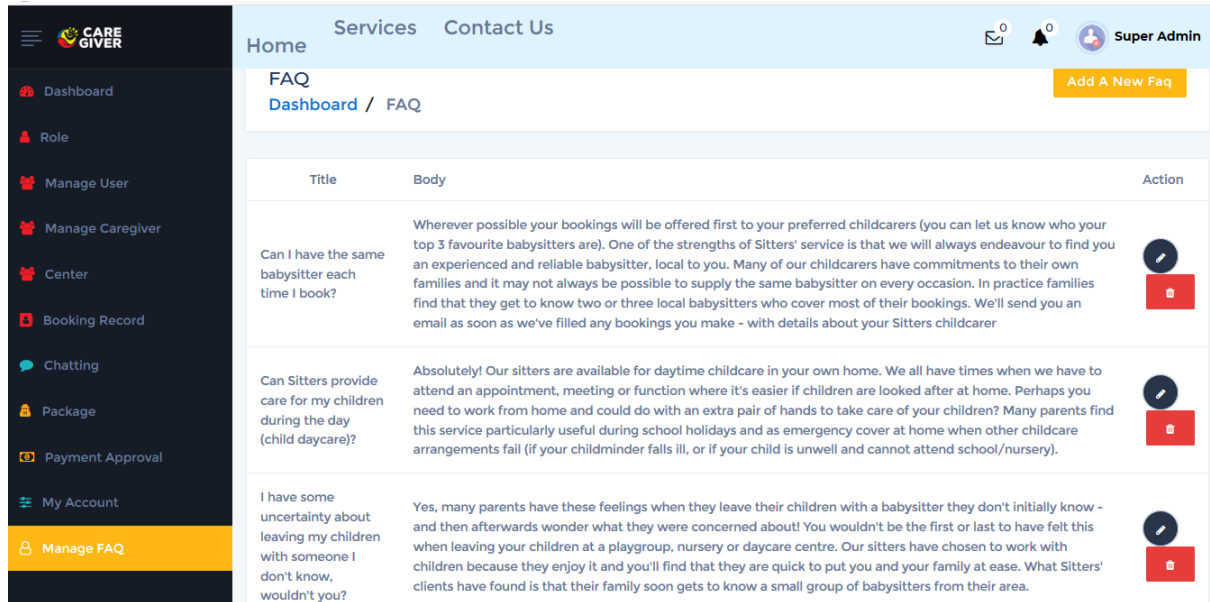


Figure 3.39: Screenshot of FAQ Management

- **Payment Approval**

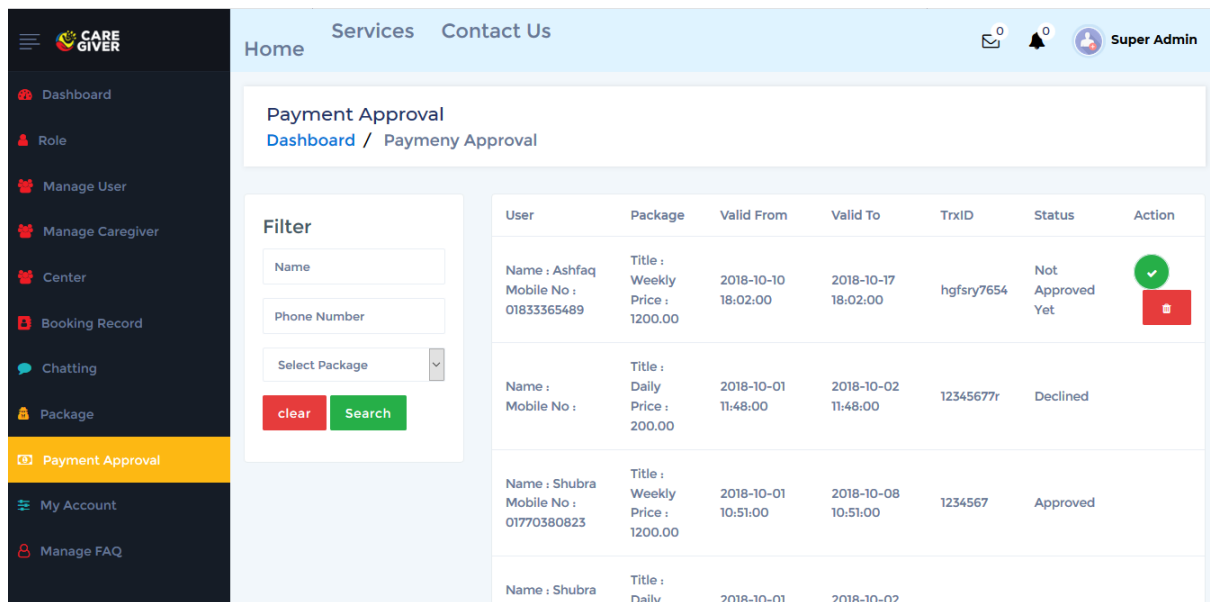


Figure 3.40: Screenshot of Payment approval

Chapter 4

System Design and Implementation

UML diagram is a common thing for software developers. It is mainly used to describe, specify, design structure and behavior of artifacts of software systems. In this chapter, we are presenting the UML diagrams and implementation of our proposed system.

4.1 Use Case Diagram

Use case shows the connections in between actor, system and use cases. For different modules, we are showing different use case diagrams along with description.

4.1.1 User of Daycare system

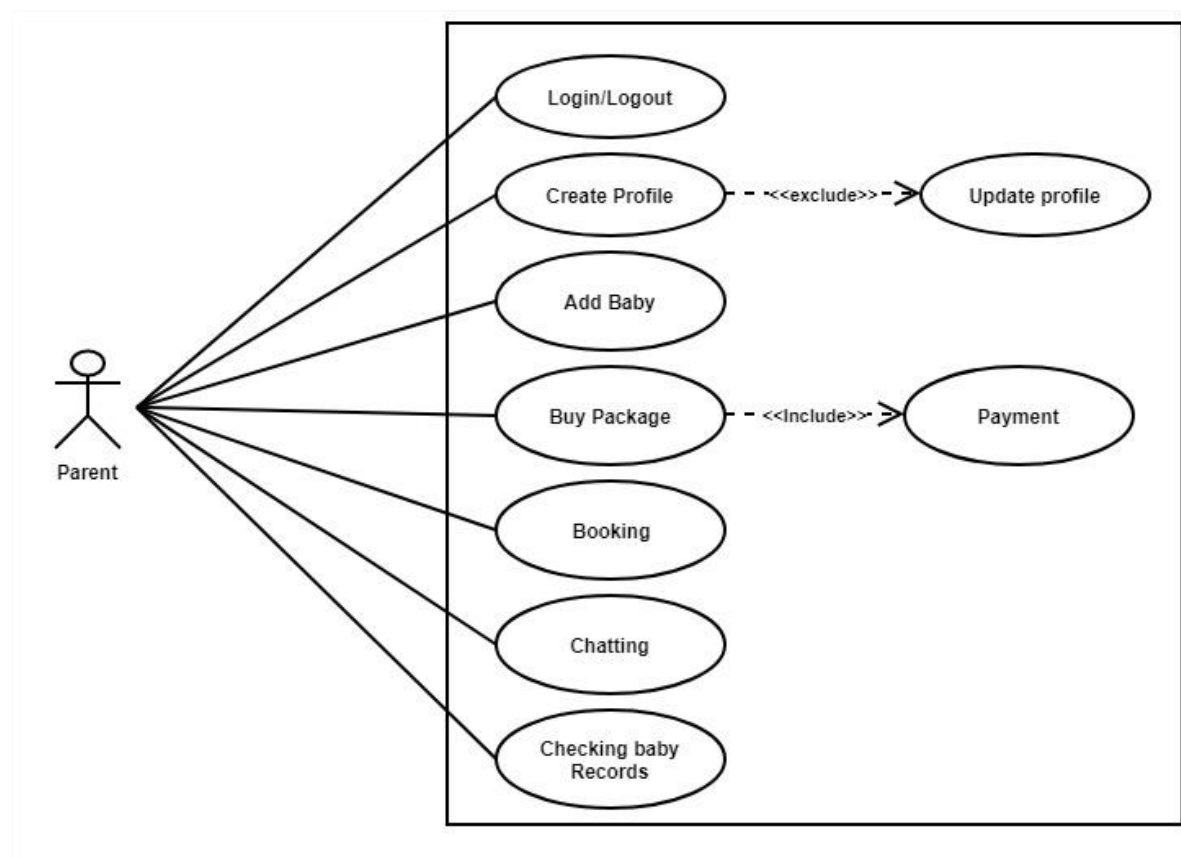


Figure 4.1: Use case diagram for User of Daycare system

4.1.2 User of Caregivers

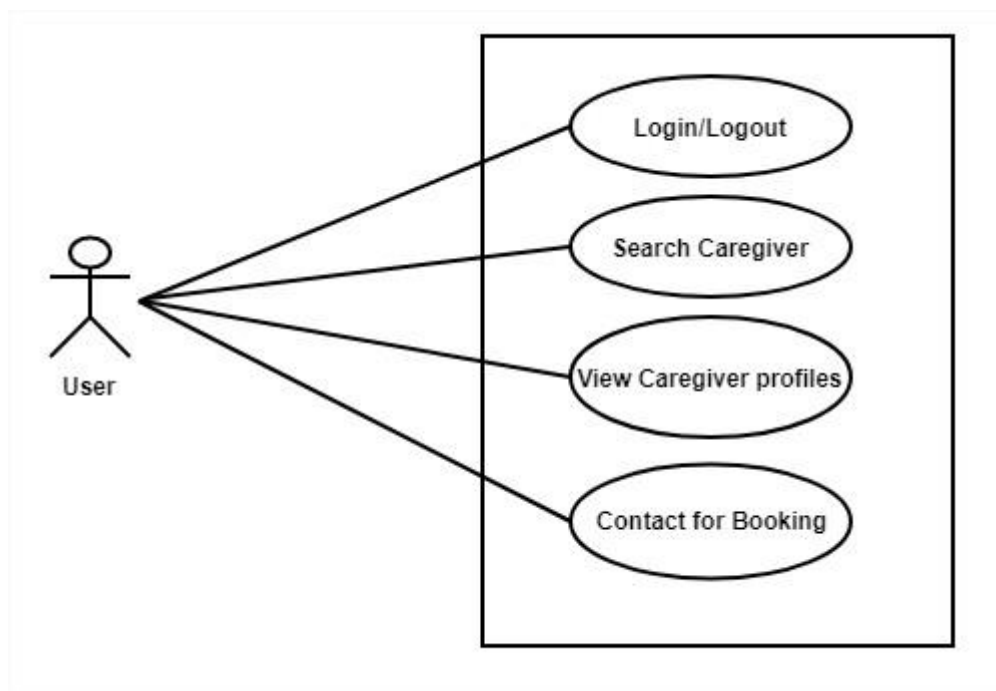


Figure 4.2: Use case diagram for User of Caregivers

4.1.3 Center Admin

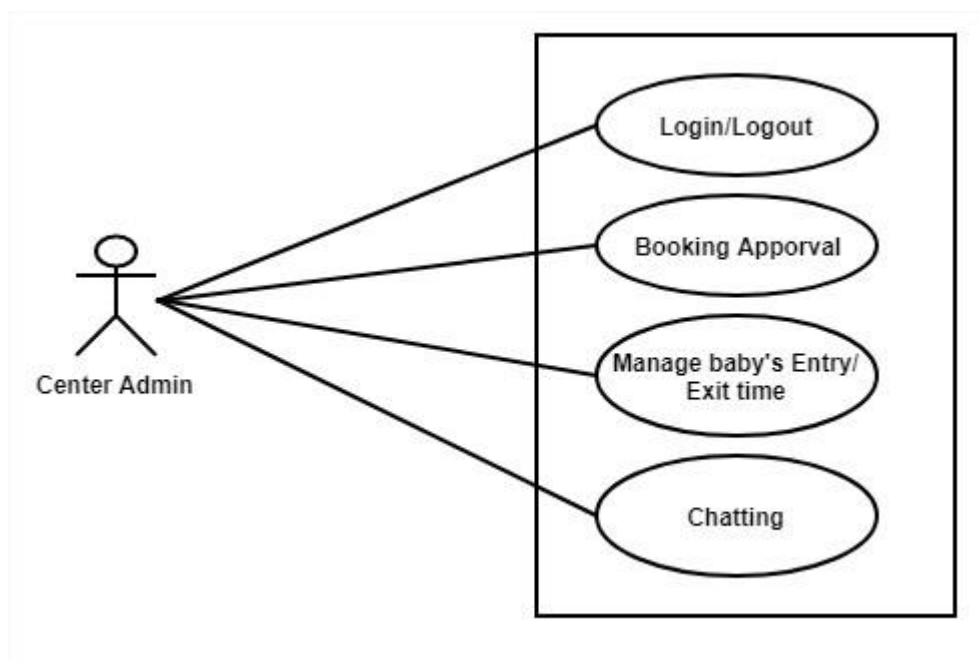


Figure 4.3: Use case for Center admin

4.1.4 Super Admin

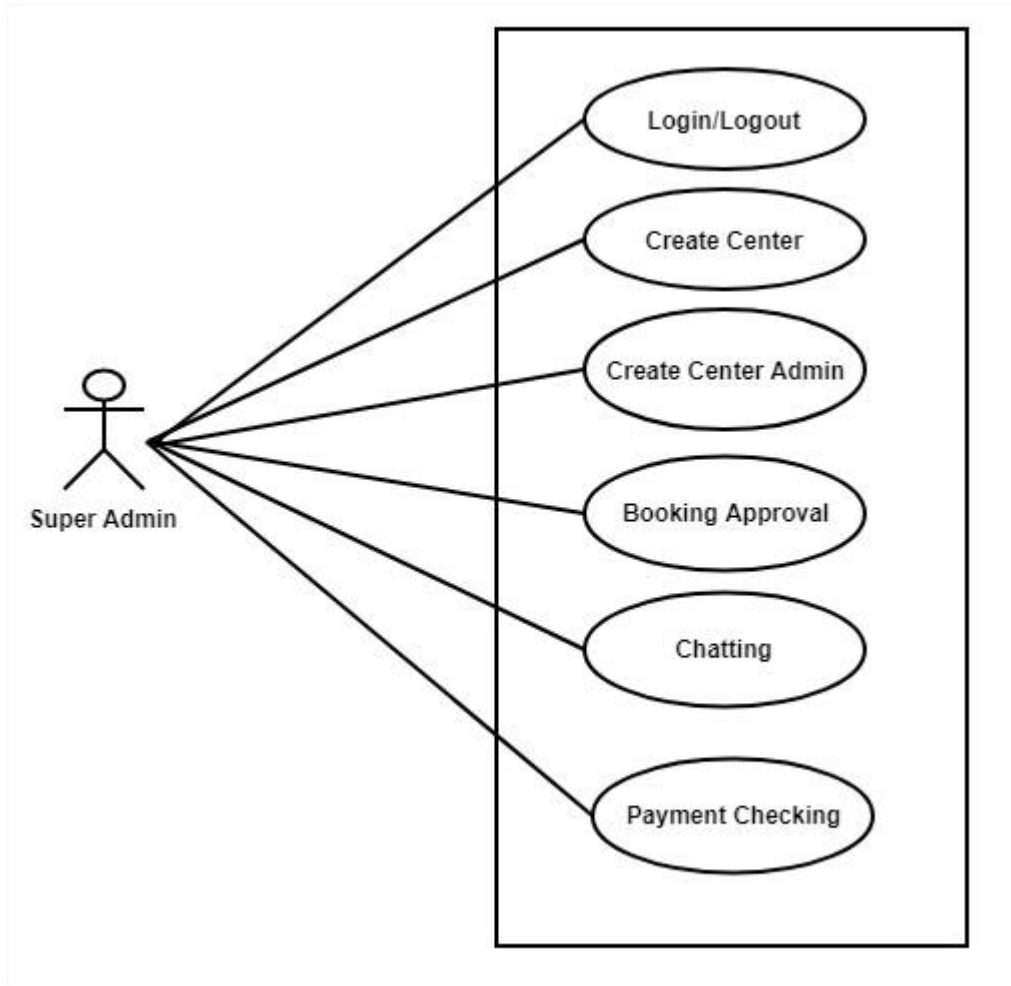


Figure 4.4: Use case for Super admin

4.2 Use case Descriptions

- Use case name: Log in/ Register
 - Primary Actor: User, User (Parent), Central admin, Super admin
 - Stakeholders & Interest: User wants to get access easily
 - Preconditions: All the background tasks should be done in proper way
 - Success scenario: User can log in/ register
 - Alternate scenario: User cannot log in/ register
 - Post conditions: User will stay in homepage and view specific contents of site
- Use case name: Create profile

- Primary Actor: User
- Stakeholders & Interest: User wants to store information their own
- Preconditions: User must be registered
- Success scenario: User can add information.
- Alternate scenario: User cannot add information, redirect to register page.
- Post conditions: User will have their detailed profile.
- Use case name: Buy Package
 - Primary Actor: User (Parent)
 - Stakeholders & Interest: User wants to have a package as their preference of duration
 - Preconditions: User must have enlisted their children's information
 - Success scenario: Making payment and proceed to booking
 - Alternate scenario: Failed to buy package
 - Post conditions: Package selection completed
- Use case name: Booking for seat
 - Primary Actor: User (Parent)
 - Stakeholders & Interest: User books seat for their children in the center.
 - Preconditions: Payment done with the package selected
 - Success scenario: User can send their children
 - Alternate scenario: Booking may get cancelled, start over
 - Post conditions: User booked a seat for their kid
- Use case name: Chatting
 - Primary Actor: User, Center admin, Super admin
 - Stakeholders & Interest: Communication among the users and the authority
 - Preconditions: All users must be registered
 - Success scenario: Send message to others
 - Alternate scenario: Unable to send message, log in or register
 - Post conditions: User ask queries to the admins as well as talk to other user
- Use case name: Booking Caregivers
 - Primary Actor: User
 - Stakeholders & Interest: Have caregiver at their house for special care
 - Preconditions: Must be registered user
 - Success scenario: Can get a caregiver for service upon their choices
 - Alternate scenario: Can't choose one, check requirements
 - Post conditions: Caregiver will go to user's place

- Use case name: Manage Entry/Exit time
 - Primary Actor: Center admin
 - Stakeholders & Interest: Keep a track of arrival or departure of babies
 - Preconditions: Check whether the user has made booking properly
 - Success scenario: All record saved properly
 - Alternate scenario: Booking cancelled
 - Post conditions: Maintain the availability of seats in center
- Use case name: Booking approval
 - Primary Actor: Center admin, Super admin
 - Stakeholders & Interest: The valid booking made by user will get approved
 - Preconditions: Filled up all the criteria of booking by user
 - Success scenario: Booking will be confirmed
 - Alternate scenario: Booking get denied
 - Post conditions: Booking confirmation done
- Use case name: Create center and center admin
 - Primary Actor: Super admin
 - Stakeholders & Interest: Center and their admins creation
 - Preconditions: Check the facilities whether suitable for create a center and appoint admin
 - Success scenario: Center created and admin assigned
 - Alternate scenario: Center has not been created
 - Post conditions: Center creation done and user will place booking\
- Use case name: Payment checking
 - Primary Actor: Super admin
 - Stakeholders & Interest: Check whether user has paid for the services, record data
 - Preconditions: User have selected packages and made booking request
 - Success scenario: After successful payment checking admin accept booking request
 - Alternate scenario: Admin may ask user to make payment again
 - Post conditions: User get the service

4.3 Context Diagram

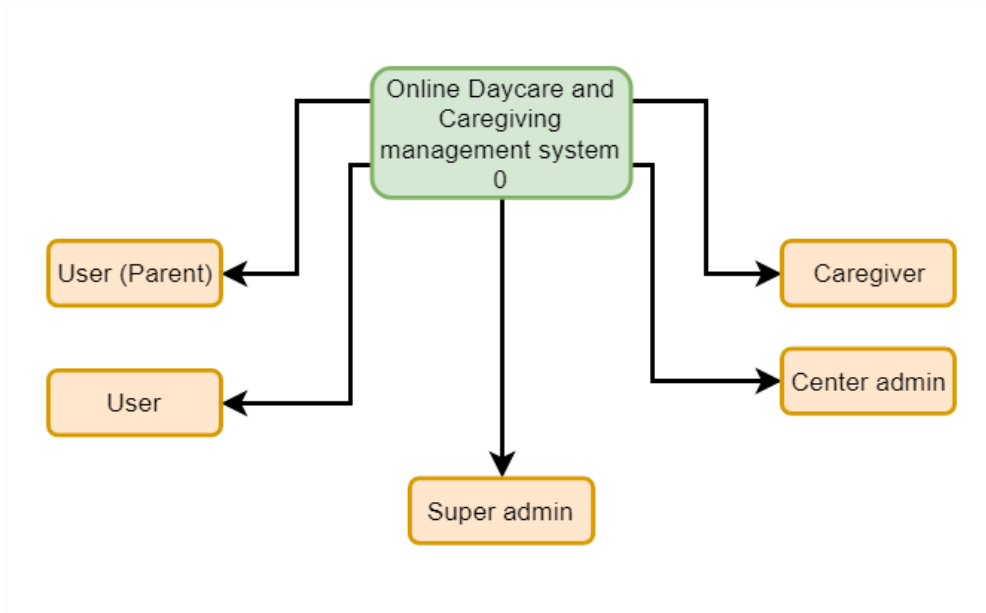


Figure 4.5: Context diagram

Our proposed system will have few entities as follows:

- ❖ User (Parents)
- ❖ User (General)
- ❖ Caregiver
- ❖ Center admin (Daycare center)
- ❖ Super admin

4.4 Data Flow Diagram

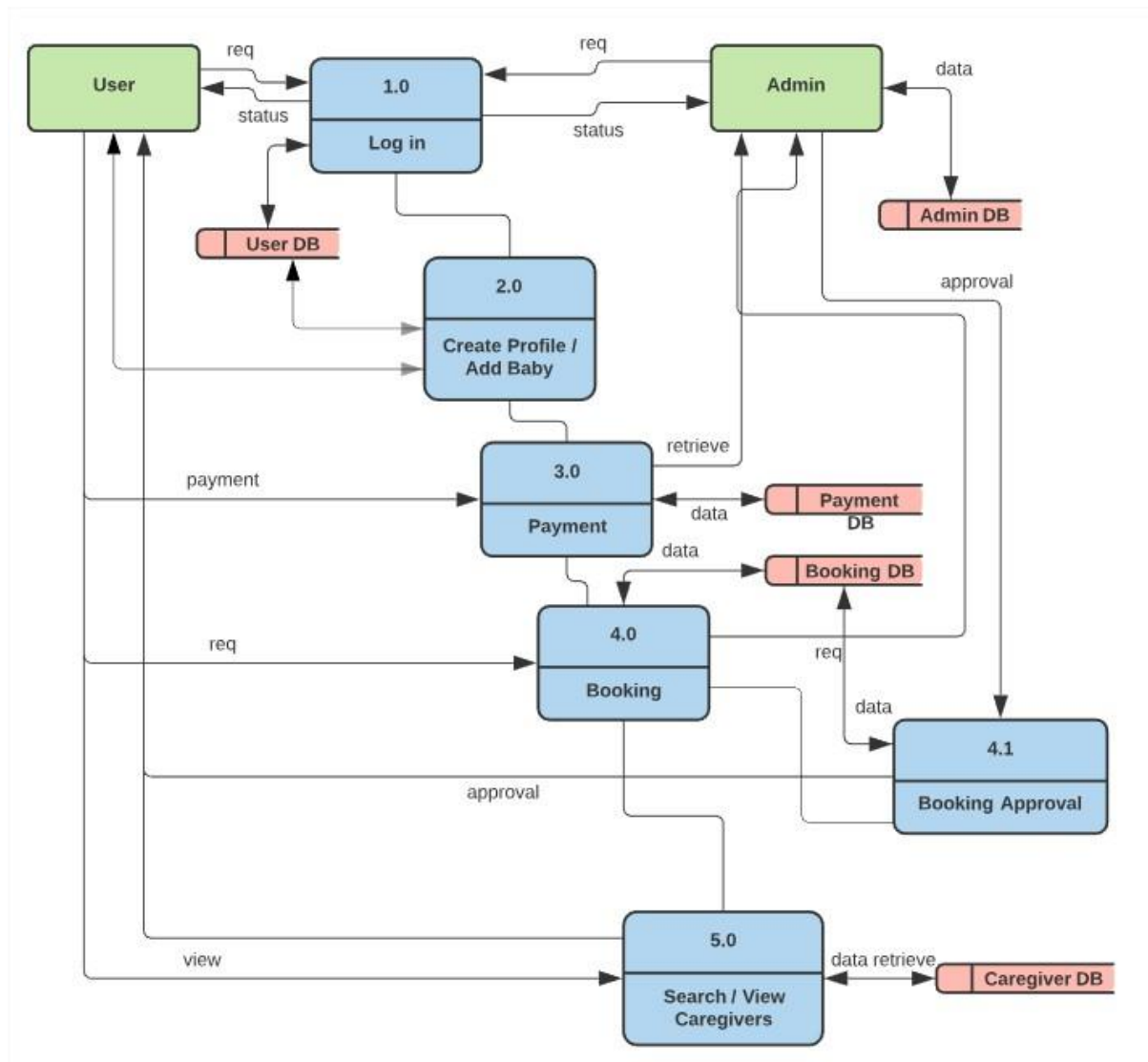


Figure 4.6: Data Flow Diagram

In the Data Flow diagram of our proposed system, the pathways of Data are demonstrated will information related to the process. Here, basic activities of a user have been shown in our system.

4.5 Entity Relationship Diagram

In this following figure, we have shown the Entity relationship diagram of our system. Here it shows the basic database entities and their relationship in between them.

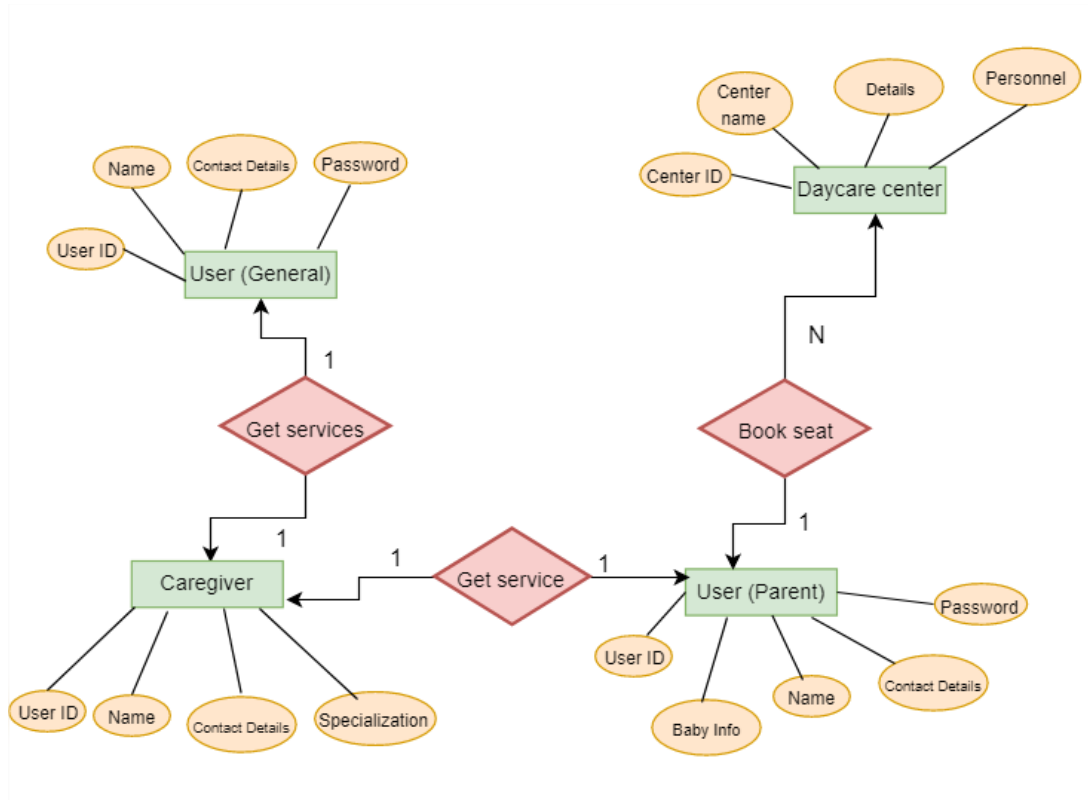


Figure 4.7: Entity Relationship Diagram

4.6 Activity Diagram

- Activity Diagram (User-Daycare Service)

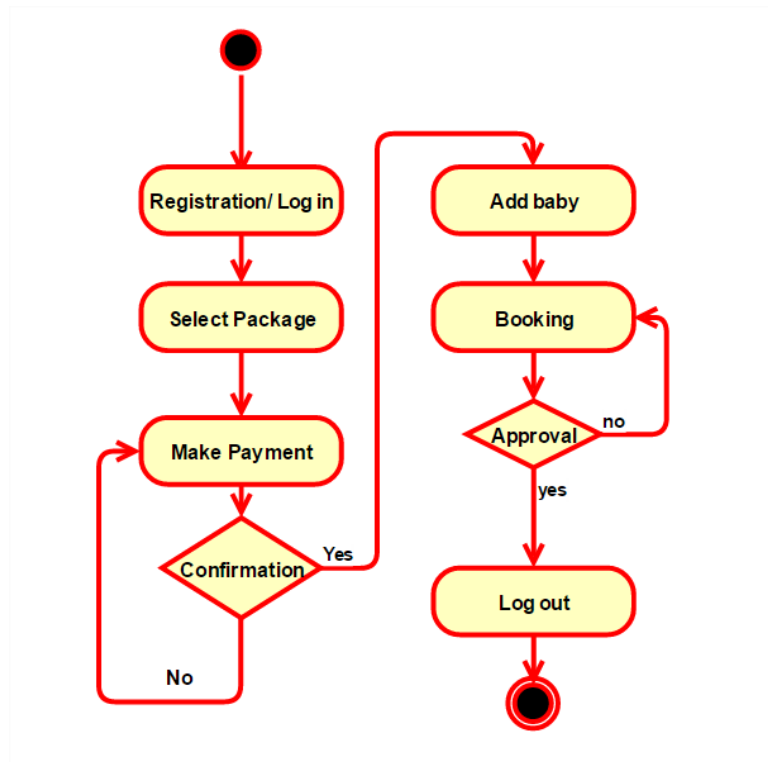


Figure 4.8: Activity Diagram (User- Daycare service)

In the above diagram, we have shown how user can get the service of daycare, firstly they have to be registered to our system. Then find a suitable package, then payment confirmation, after that user has to give information of children. Finally, user will be able to make booking request which will be accepted by admin upon verifications.

- **Activity Diagram (User-Caregiver Service)**

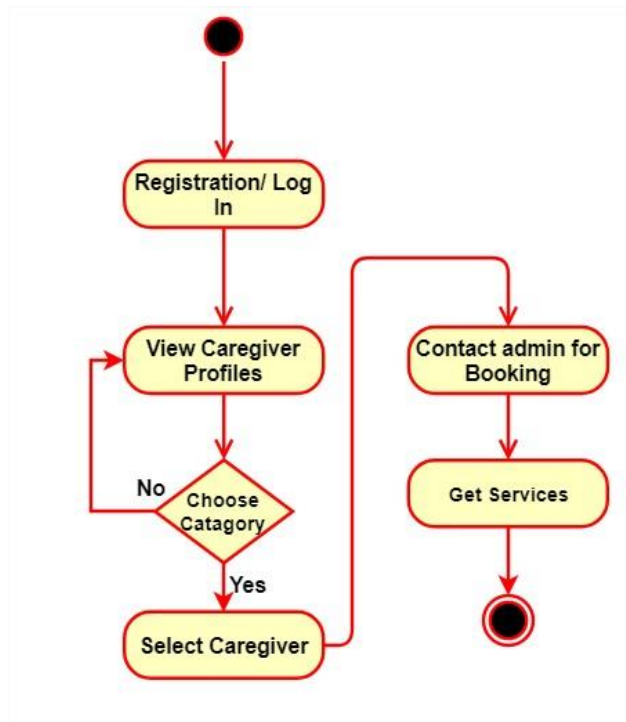


Figure 4.9: Activity Diagram (User get Caregiver Service)

In the above diagram, we have shown how user will get caregiving service through our system. Being registered member, user will be able to see the caregiver profiles from our site. There they can choose caregiver according to their choices by sorting profiles. There then can view the whole bio of that particular caregiver. To book one, user has to make contact to admin.

- **Activity Diagram (Center admin)**

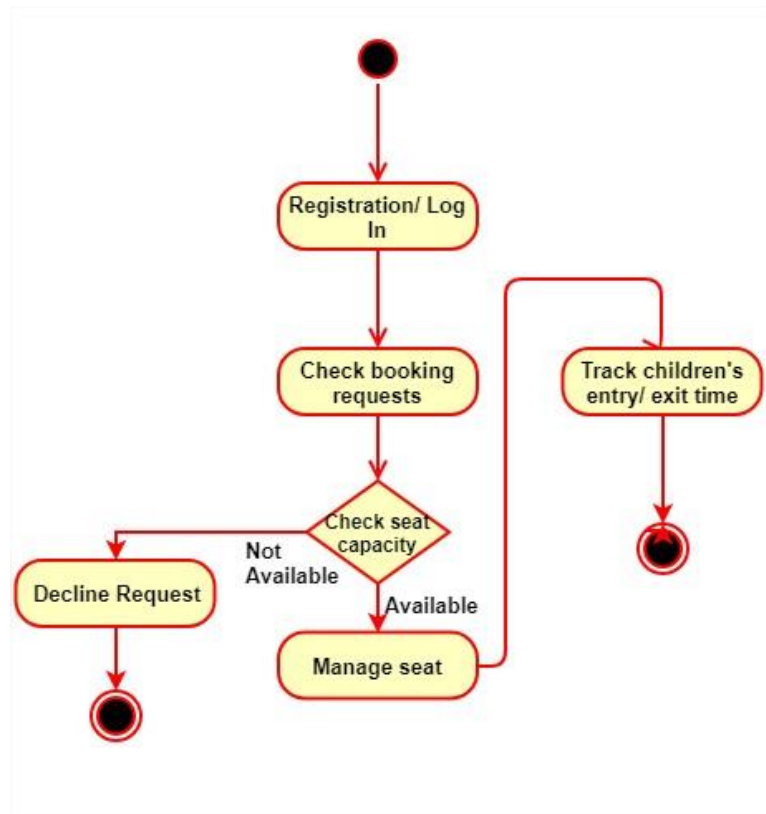


Figure 4.10: Activity Diagram (Center Admin)

Center admin will check the booking requests. Upon checking the seat availability center admin will approve the booking. Then the admin will track the time duration of the service.

- **Activity Diagram (Super admin)**

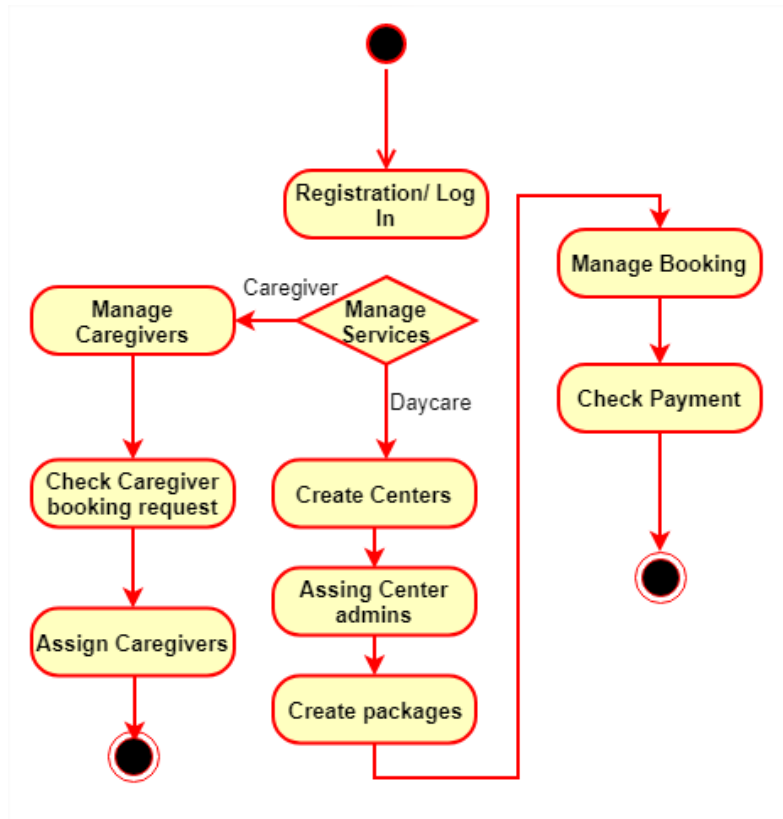


Figure 4.11: Activity Diagram (Super Admin)

In the above diagram, we have shown the workflow of Super admin of our system. This admin has the core duty to create center, assign an admin for that center. Make packages for the users, manage caregivers, manage booking, and check all the payments.

4.7 Class Diagram

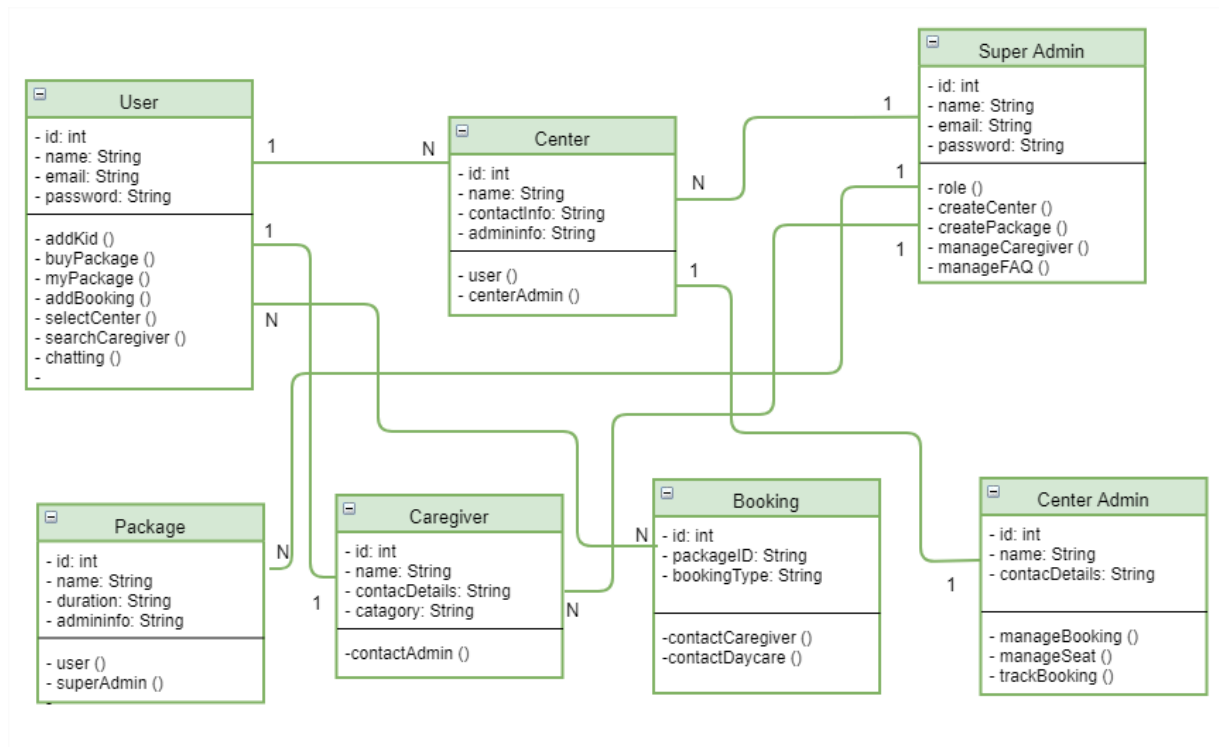


Figure 4.12: Class Diagram

4.8 Sequence Diagram

- User Registration

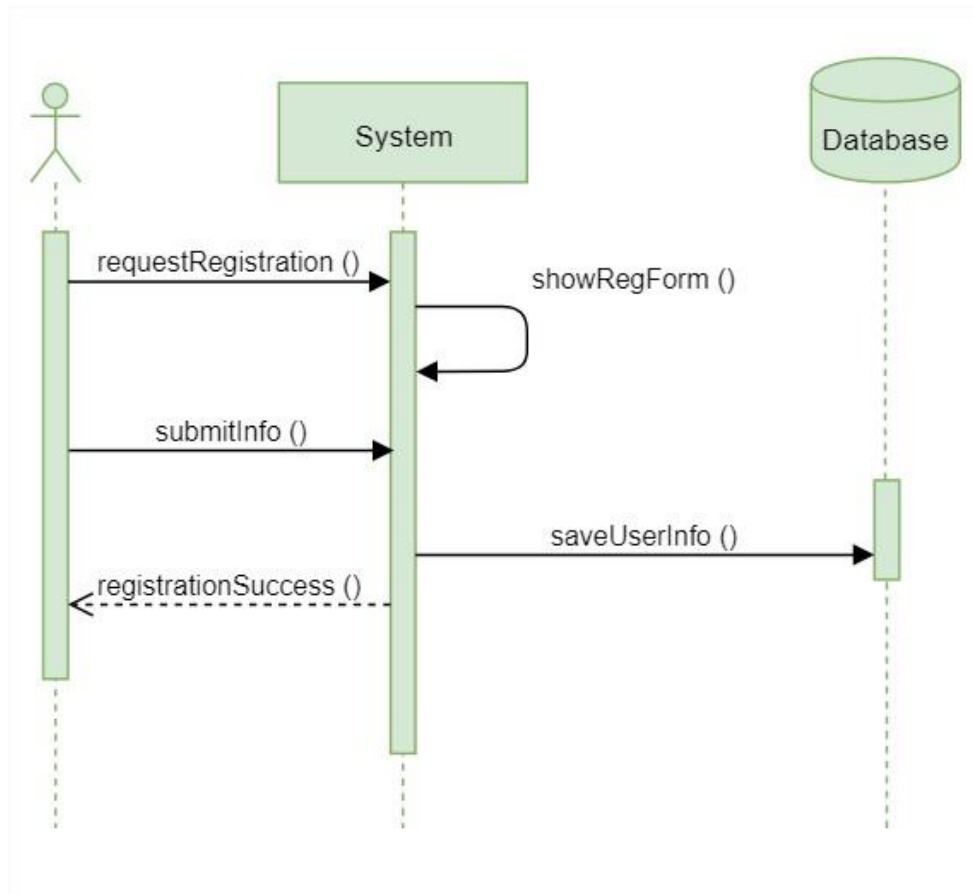


Figure 4.13: Sequence Diagram (User Registration)

In this diagram of above sequence diagram, we have demonstrated user registration sequence. First user make request for registration to system. Then system show registration field. Then user will submit information. System will save the information to database system for future purpose. Then user will be notified to be registered.

- **User gets Daycare Service**

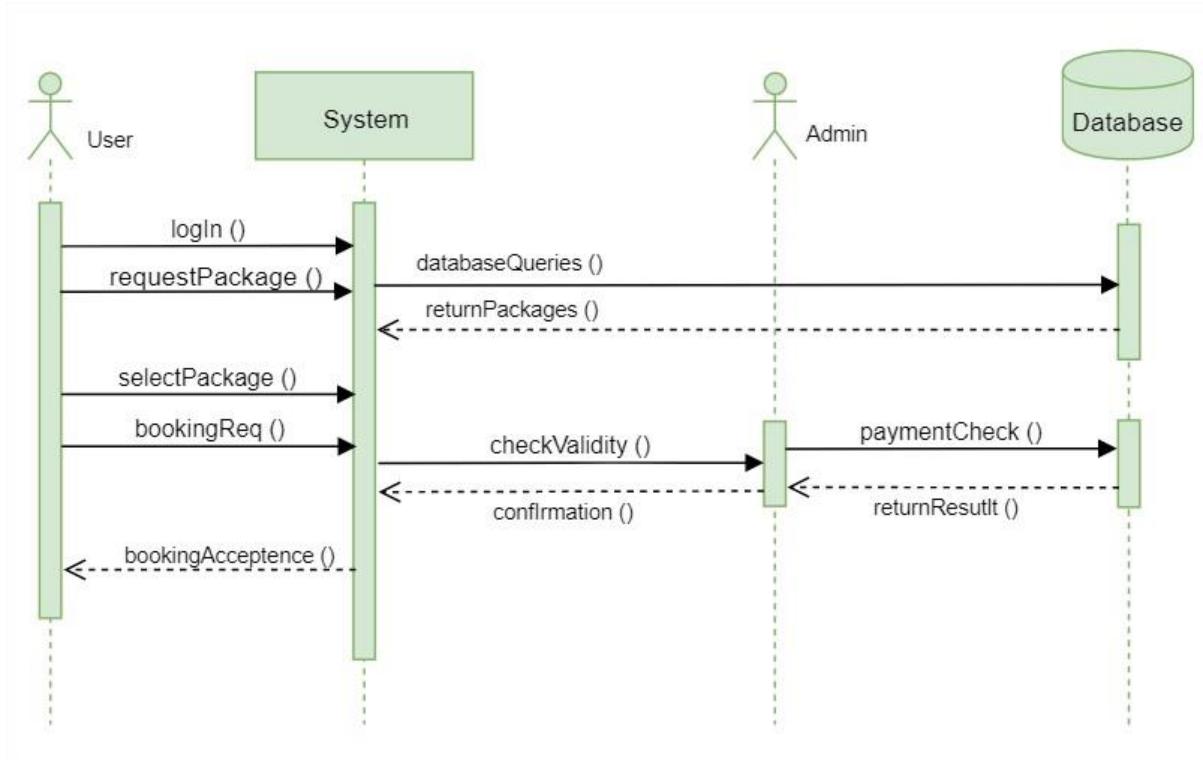


Figure 4.14: Sequence Diagram (User gets Daycare service)

Here in this sequence diagram, we have shown how user get daycare service. After logging in, user has been asked for package selection. System will show packages from database which are made by admin. After successful package selection, user make booking request. System will do the validation process via admin. Thus user will make successful booking.

- **User get Caregiving service**

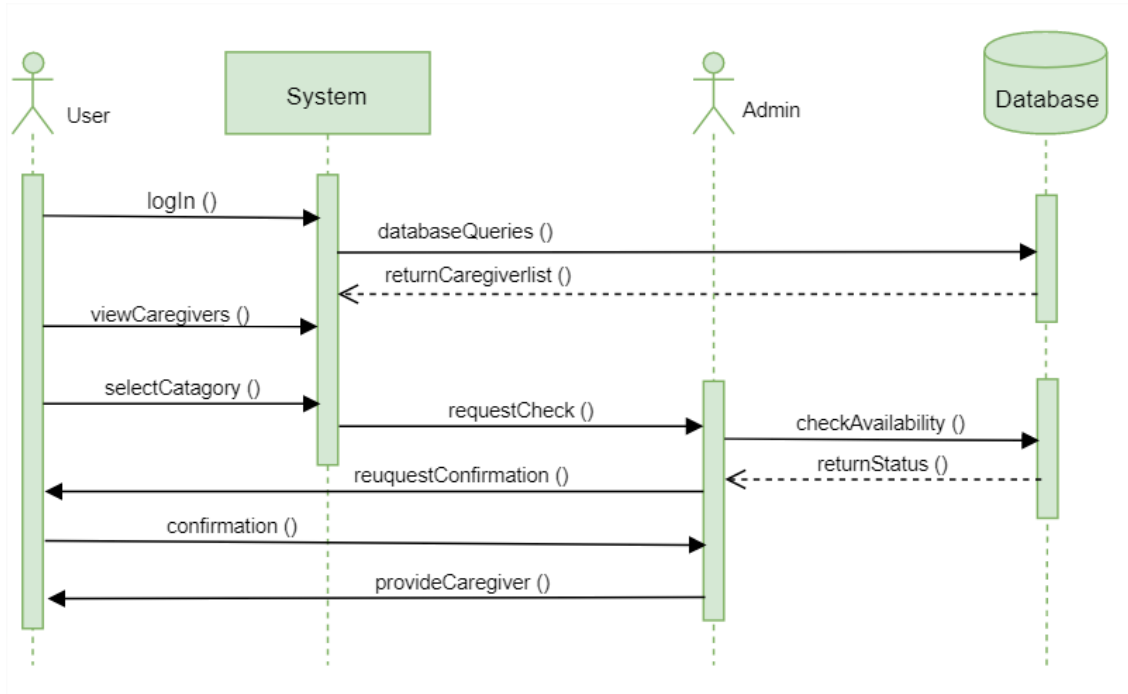


Figure 4.15: Sequence Diagram (User gets Caregiving service)

In the above diagram, how user get caregiving service, has been demonstration sequentially. User visit the page and view the caregiver profiles. After determining their preferred caregiver, they will make a booking. Admin will directly handle it. After confirmation from user, caregiver will be provided.

4.9 Implementation Environment

For our system environment we are selecting Laravel framework as a development platform. Laravel is a free, open-source PHP web framework, intended for the development of web applications following the model–view–controller (MVC) architectural pattern and based on Symfony (another PHP web application framework). Some of the features of Laravel are a modular packaging system with a dedicated dependency manager, different ways for accessing relational databases, utilities that aid in application deployment and maintenance, and its orientation toward syntactic sugar.

Here the Tools & Technologies we've used for our Proposed System:

4.9.1 Web Application Framework

- ✓ Laravel 15.6

4.9.2 JavaScript Library

- ✓ jQuery

4.9.3 Database

- ✓ MySQL

4.9.4 Code Editor/IDE

- ✓ PhpStorm IDE
- ✓ Sublime Text

4.9.5 Web Server

- ✓ Apache

4.9.6 Local Development Environment

- ✓ Xampp

4.9.7 Web Browser

- ✓ Google Chrome
- ✓ Microsoft Edge
- ✓ Mozilla Firefox

Chapter 5

Conclusion

In this modern era of digitalization each and every service becoming online based.

So we are also providing our service in online. Our system has various contents including daycare & caregiving tactics, blogs and other features as well that have emerged to become the channel capable of delivering valuable content that parents, sitters & caregivers would spend their precious time on nature. This report has reviewed the current trends for day caring and caregiving, with a very specific focus on day caring and caregiving web sites, though no one is offering this two service altogether.

We've included Frequently Asked Questions (FAQ) in our website, so that any interested person can find their queries with answers.

In this project report we've discussed about what our system is providing and why there is difference with existing projects. In chapter two we've discussed about benchmark studies for our project. In which we discussed related work with our systems feature and what features are differentiating our system with others. Then in chapter three we discussed overview of our projects feature wise. After that in chapter four we discussed the UML diagrams for our proposed system. Then in chapter five we presented Screenshots of our proposed system with respect to its functionalities. In chapter six we discussed Requirement & Background Analysis for our proposed system briefly.

Then in chapter seven we discussed what kinds of modern tools & technologies we used for our proposed system.

5.1 Problem Faced

We've faced several problems in our development process of our site. Some of the major problems we've faced are given below:

- **Lack of Suitable Template:** At first, we haven't been able to find any suitable template for our project, then we had to buy a premium template for our website.
- **Backend Implementation using Laravel :** We've faced some real difficulties when we started customizing our site in the backend using Laravel. Because it was a new platform for us. At First we had to learn Laravel, then we were able to implement. It took too much time for us.
- **Making Website Live:** First we've tried to find free web hosting site for our project. But none of the free hosting site provides laravel supports. So we had to buy the domain & the hosting service as well.

5.2 Limitation Discussion

We have faced some limitation also during implementation of our system. The most common problem we have faced is lacking of resources and data. International websites don't share data. There is no caregiving and day caring related open source data also. If we could be able to get those resources and data, then we could make our proposed system more feature full and expand its functionalities. As this is a new idea in Bangladesh, so we haven't been able to find any Bangladeshi Daycare & Caregiver related website to compare with our proposed system.

5.3 Future planning

For limited amount of time and resources we cannot implement some features, we will implement those features in near future. In future we will try to provide:

- Dynamic Blogging System
- Live Video Chat
- Mobile Apps. for Our Proposed System
- Baby monitoring service & baby health reporting

We will try our best to resolve our limitation and implement our future planning about our system in near future.

Thank you.

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** Date written in the brackets refers to the launching date of the website.*