



Daffodil
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University

CHILD DEVELOPMENT INSTRUCTOR

By

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A project submitted in partial fulfillment of the requirement for the
degree of Bachelor of Science in Software Engineering

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APPROVAL

This Project titled “**Nanny – A Client-side application developed in Laravel which is a web Framework of PHP, this Application will work as a Child development Instructor**”, submitted by Abdullah Al Noman, 161-35-130 to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the wants for the degree of B.Sc. in Software Engineering and approved on its style and contents.

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ABSTRACT

Life is getting busy and people are getting involved online nowadays. The use of the internet is also increasing rapidly in the present world like Bangladesh. Besides, the family is getting atomic with time. So, our new parents or mothers are not getting anyone besides them to take care of their baby since they are not expert or educated to nourish the child. In the early decades, grandmothers (Nanny in Bengali) would help them to take care of them and they also shared their experience to foster a child. But the new parents or mothers don't get beside them since they cannot live together right now due to business. From that perspective, to solve the problem, the project is designed. The project aims to connect all the mothers and grandmothers in a single platform so that new mothers can share their child's problems and others can help them to foster the child by giving solutions. The system will collect the child's age and information and based on age others will help the new mother. The system will collect detailed information while registration is completed and stored in the database for further assistance.

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Chapter-1

1. Introduction

Nanny, it's basically a web and mobile application system. It is a child care and development assistance system. All the families are getting atomic with time. So, our new mothers are not getting anyone besides them to take care of their baby since they are not expert or educated to nourish the child. In the early decades, grandmothers (Nanny in Bengali) would help them to take care of them and they also shared their experience to foster a child. But the new mothers don't get beside them since they cannot live together right now due to business. From that perspective, to solve the problem, the project is designed. The project aims to connect all the mothers and grandmothers in a single platform so that new mothers can share their child's problems and others can help them to foster the child by giving solutions.

In the system, new mothers on behalf of their child will be registered using their child's information. All the information along with the birth date will be stored in a database. Since a baby's care depends on his/her age. The age will be estimated automatically with the current and the registered birthdate using the system. There are three categories in the system to help their mothers. According to a category, they will create posts and others will help them by suggesting possible solutions and sharing experiences. Thus, it will help a mother to take care of a child.

1.1 Overview

The purpose of this project is to build an application program to make a bridge between experienced mothers or experts on child care and inexperienced or illiterate others to take care of their child.

The aim of this project is to create a platform where new mothers and experienced one can access /interact efficiently with each other and provide ease and comfort to share their problems. It also aims to resolve the problems that a mother has to face instantly while taking care of.

1.2 Purpose & Scope

The main thing of this project is reducing the use of the keyboard when the mother writes a prescription for the mother. Automatically generate prescription templates and also medicine based on mother symptoms. I can manage login and signup pages for both Mother and Mother's to use user authentication tokens. If the users are registered then they can access my system otherwise not.

There are some issues also like that,

This system helps to reduce the waiting time of the mother. Mothers can't understand mothers' hand-writing. So, this system will help to understand medicine's name easily. Users can select the child development care time according to their preference. Available and booked slots are shown in the effective graphical user interface. Medicine location easily provides as per my system also.

The system initially provides for a child development care system. A mother will create posts about her child and others will help her provide solutions or sharing experiences based on the child's age. The age will be calculated automatically from the system using the birth date entered during registration.

1.2.1 Background

The objective of this system is to develop child development care for new mothers. The purpose of implementing this application is to create a system through which a new mother can easily compare, choose, and make a decision for a child just by sitting at home taking help from others. The reason behind creating this system is the “helping inexperienced” and manual medical file keeping system in Nanny. Online child development system aims to improve quality medical care by Clinic/ Hospital/ Mother, eliminating long waiting time to get help.

The requirement of Project Build.

1. Laravel 7.2
2. MySQLi
3. HTML 5,
4. CSS 3,
5. Bootstrap.
6. JQuery

1.2.2 Benefits & Beneficiaries

child development care services attract more mothers. Others will see you at your convenience! No more waiting!! Will make sure that there are no more phone calls. Will make Reminders/Cancellations/Reschedules easy. Can reduce absenteeism. Can improve child development care satisfaction. Delivers a premium experience. The benefits of this system are people can easily get solutions to their problems. They need not go anywhere for prescriptions. They can ask for any problems & get the medicine's name or service for their problems. New mothers need not use anything to write a prescription. They can easily write down their solution & they can also know about medicines. The government can also take benefits from this system. They can analyze child development care and can make new good quality solutions. So that people can relieve child development care tension & can lead a better life.

Monetary Savings: The time savings experienced by a facility can translate into financial savings, as both staff time and services translate into expenses and revenue, respectively.

24-hour convenience: child development care over the phone usually requires an individual to phone in during office hours, as few facilities offer 24/7 phone service. child development care allows for 24-hour scheduling, not just during regular facility or office hours.

1.2.3 Goal

Life is getting busy getting and people are getting involved online nowadays. The use of the internet is also increasing rapidly in the present world like Bangladesh. Besides, the family is getting atomic with time. So, our new mothers or parents are not getting anyone besides them to take care of their baby since they are not expert or educated to nourish the child. In the early decades, grandmothers (Nanny in Bengali) would help them to take care of them and they also shared their experience to foster a child. But the new mothers or parents don't get beside them since they cannot live together right now due to business. From that perspective, to solve the problem, the project is designed. The project aims to connect all the mothers and grandmothers in a single platform so that new mothers or parents can share their child's problems and others can help them to foster the child by giving solutions. The system will collect the child's age and information and based on age others will help the new mother. The system will collect detailed information while registration is completed and stored in the database for further assistance.

Our goal is to provide free child development care services for new mothers. That they can easily get treatment from anywhere & any place. There are some issues also like, mothers can't understand what to do instantly. So, this system will help to understand medicines names and other problems about child development care easily by others using the system. I have a plan to explore this project more & make it reliable. mothers or parents need not use anything to know about child development care but still, they can take care of their child. They can easily get a prescription & they can also know about medicines or others from an experienced one. So that my users feel free to use the system.

1.3 Stakeholders

Basically, those who are using our web system are our stakeholders. Parents, Parents are stakeholders.

1.4 Proposed Solution

1.5 Project Schedule

Though our project is a big project so this project will take a long time. But I am trying to finish the web and mobile application part from the whole system for our Final Defense. So, I used eight (8) months to make our system. Here's the Gantt Chart. So that I can easily find out when I have finished our work.

1.5.1 Finding Idea Proposal:

Serial	Work Description	Start Day	End Day	Total Day
1	Idea Finding With Supervisor	01-02-2019	04-02-2019	3
2	Feasibility study with Supervisor	05-02-2019	07-02-2019	2
3	Feature Discussion With Supervisor	08-02-2019	08-03-2019	30
4	Workflow Maintenance	11-03-2019	11-04-2019	30

5	SDLC Selection	17-04-2019	21-04-2019	4
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1.5.2 Requirements Gathering:

Serial	Work Description	Start Day	End Day	Total Day
1	System Flow sketch	21-04-2019	30-04-2019	8
2	Requirement gathering for proposed system	01-05-2019	01-05-2019	10
3	Requirement Collection	11-05-2019	20-05-2019	9
4	SRS	21-05-2019	30-05-2019	10
5	All requirement and Information	01-06-2019	10-06-2019	10

1.5.3 Logical System Design:

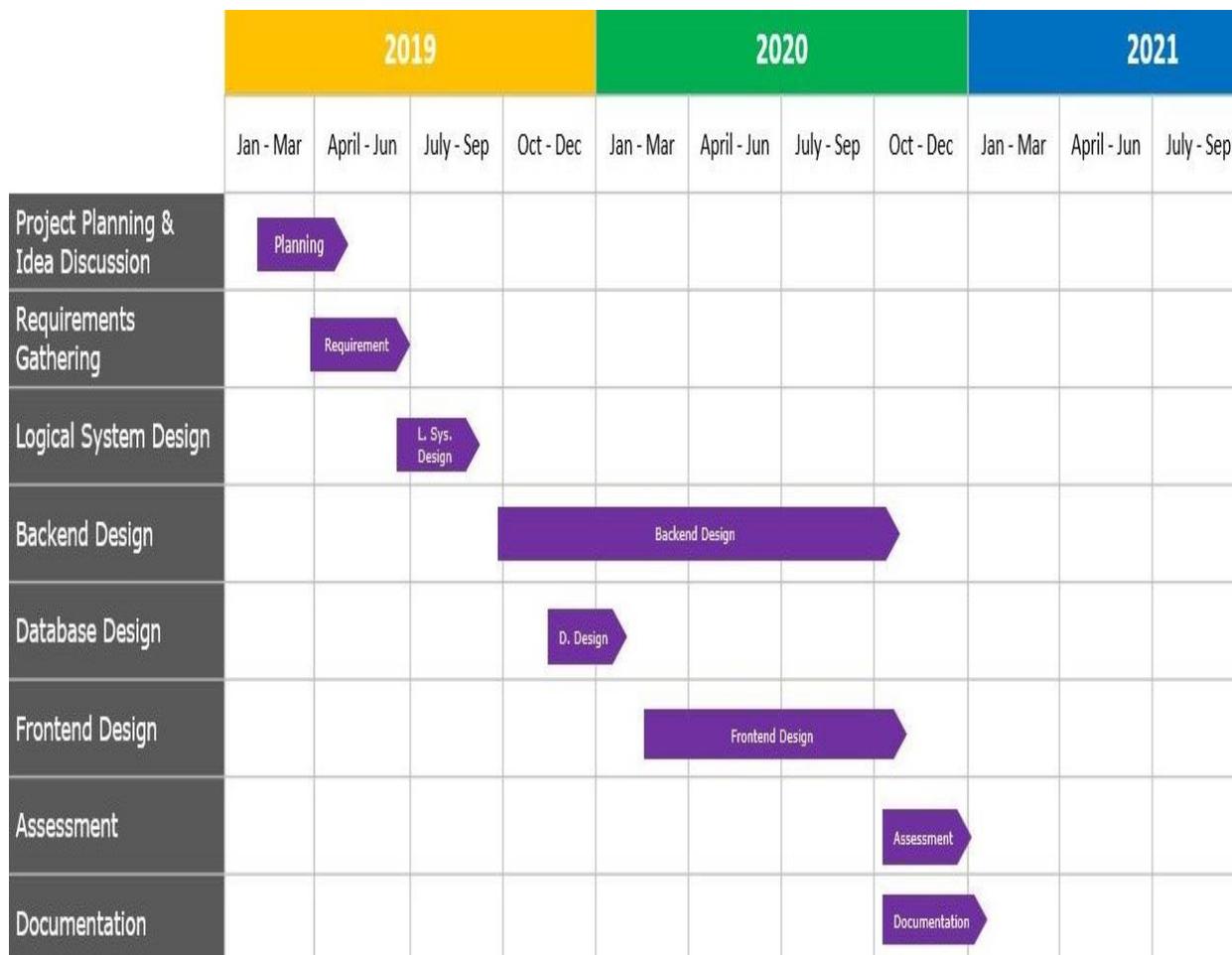
Serial	Work Description	Start Day	End Day	Total Day
1	Use case Diagram Design	12-06-2019	20-06-2019	8
2	Activity Diagram	21-06-2019	25-06-2019	4
3	Schema Diagram	26-06-2019	16-07-2019	20

4	Class Diagram	17-07-2019	19-07-2019	2
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1.5.4 Development Phase:

Serial	Work Description	Start Day	End Day	Total Day
1	Build User Module	19-09-2019	26-09-2019	7
2	Build Child Module	28-09-2019	03-10-2019	6
3	Build Admin Module	18-06-2020	26-06-2020	8
4	Database Integration	19-06-2020	23-06-2020	4
5	Live Streaming Implementation	21-08-2020	30-08-2020	9
6	Refactoring Code	04-09-2020	01-10-2020	26
7	Indent All Code	01-11-2020	15-11-2020	15

1.6 Gantt Chart



1.7 Release Plan / Milestone

Release plan-1: I will try to release our system on 14 January 2020.

Because our system is not a small project. I can't finish it within this time & for some problems. So, I will update it & release the update version next time. In our next release date, I will try to use a Child development Instructor system & will try to make the system more reliable.

Chapter-2

2. Software Requirement Specification

2.1 Functional & Non-Functional Requirement List

child development Instructor is a smart web application and mobile application, this provides a registration and login for both parents and parents. parents can register by giving his necessary details like timings, fee, etc. After successful registration, the parents can log in by giving username and password. The parent) can view the solution request by new parents and if he provides the parents solutions the solutions will be shown to the parent. She can also view the feedback given by the parents. The parents must be registered and log in to book a parent. The search results will show the list of parents matching parents required criteria and he can select one and send a request. The request will be forwarded to admin and admin forward to the parent and if he is available, he will send the confirmation request back to admin to update the solutions and says confirmed to the mother. The mother or the parent can view the solutions in the status tab and also, she will get an option to edit.

Before identification of the requirements, I needed comprehensive engagement and lighting quick coordination with the stakeholders. This accelerates the entire requirements management process by orchestrating the flow of information and processes across different team members and stakeholders. Again, this is combined with hybrid agile and waterfall development methodologies and tools. Flexible workflows and automatic notifications streamline communication, review, and approval of requirements across stakeholders, while common metrics and dashboards ensure everyone is on the same page. So, the listed requirements go with all the previous processes.

2.1.1 Registration:

Here how-to registration. **Parents**

Requirement No.	Requirement
R-1	Email (Mandatory)
R-2	Phone no. (Mandatory)
R-3	Password (Mandatory)
R-4	Confirm Password. (Mandatory)
R-5	Name. (Mandatory)
R-6	Gender (Mandatory)

2.1.1 Registration:

Here how-to registration. **Parents** or **Mother**

Requirement No.	Requirement
R-1	Email (Mandatory)
R-2	Phone no. (Mandatory)
R-3	Password (Mandatory)
R-4	Confirm Password. (Mandatory)
R-5	Name. (Mandatory)
R-6	Birth of Date (Mandatory)

2.1.2 Login:

Here, the requirements are based on the task of the login system by the users including **Parents** and **Admins**.

Requirement No.	Requirement
L-1	Email Id. (Mandatory)
L-2	Password (Mandatory)

2.1.3 Parents Profile:

Requirement No.	Requirement
L-1	name. (Mandatory)
L-2	gender(Mandatory)
L-3	Email.(Mandatory)
L-4	Child(Mandatory)

2.2 Data Requirement

Data requirements refer to those data which are needed to build the system model. For my project, I need to focus on some points such as:

1) parents Personal Information:

- Focus on reduce keyboard using
- Google Calendar for viewing the current date to calculate the child's age.
- Original Parents Identification (Need validation data)
- Medicine Information and others
- Create Child Information
- Parents profile Information

2) Parents Personal Information:

- Parents Information
- View Medicine and List
- View Parents Information
- Get Push notification

2.3 Performance Requirement

Performance requirements define how well the system performs certain functions under specific conditions. Examples are speed of response, throughput, execution time, and storage capacity. The service levels comprising performance requirements are often based on supporting end-user tasks. Like most quality attributes, performance requirements are key elements when designing and testing the product. All of the behavior resolved in my system. My application ran for just 54 seconds.

Now I can manage storage for my application: Server software does not require any special hardware other than the minimum hardware required for running enterprise OS. Extra disk storage will be required for archives and electronic documents. Increases in memory enable efficient query processing, which is required for quick bibliographic search. Minimum processors 1.0 GHz, at least 4 GB RAM, and 200 GB hard disk is recommended for the server. Client machine with recommended hardware required for a desktop operating system and web browser.

2.4 Dependability Requirement

2.4.1 Reliability Requirement

This document is the Software Requirements Specification for child development care systems. It details the results of the analysis effort performed by the developers of child development care. This analysis effort reflects the intentions of the child development care Business Plan, as well as providing the basis for design and prototyping of the online child development care system. Finally, this document will also be referenced during the implementation and testing of the final system, to be performed at a later iteration.

Reliability is an important non-functional requirement for most software products so a software requirements specification (SRS) should contain a reliability requirement, and most do.

Software reliability can be a more difficult concept to grasp. A software product will fail under certain conditions, with certain inputs, and given the same inputs and conditions will fail every time until the cause of the failure is corrected. So, the reliability of a software product is more about the random discovery of faults resulting from various inputs with the system in various states. Although for small and simple systems it may be theoretically possible to test every combination of states and inputs, for a system of any size and complexity this is not feasible. The random nature of the fault discovery process means I must use probabilities when I refer to software reliability requirements and testing.

So, I tried to make our software more reliable so that users can easily use our system & get better service from us.

2.5 Maintainability & Supportability Requirement

At least one backup server with the same configuration as the main server is also recommended for fault tolerance and better performance. Separate storage (with backup) for database, electronic document, and the manuscript are also recommended. Multiple computing nodes with storage are required for high availability and to enhance the performance of the application. Again, after a certain period, the preliminary manuscript files and other files related to that can be deleted manually from the database to increase the performance.

2.6 Security Requirement

Each time there is a security violation. For this reason, when the user will register, the user will receive an OTP no in a phone number & have verified this for login, and also Authenticate JWT (JSON WEB TOKEN) Bearer Token validation expires. Otherwise, the user can't log in to the main option.

2.7 Operational & Environmental Requirement

The operational requirement definition process includes the following activities:

- 1) Identify stakeholders who will or have an interest in our system. So mainly our stakeholders are Mothers & mothers or parents. They should have Register & Login for their other activities.
- 2) Establish measures of effectiveness and suitability, so that users can easily access & can use our system.

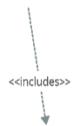
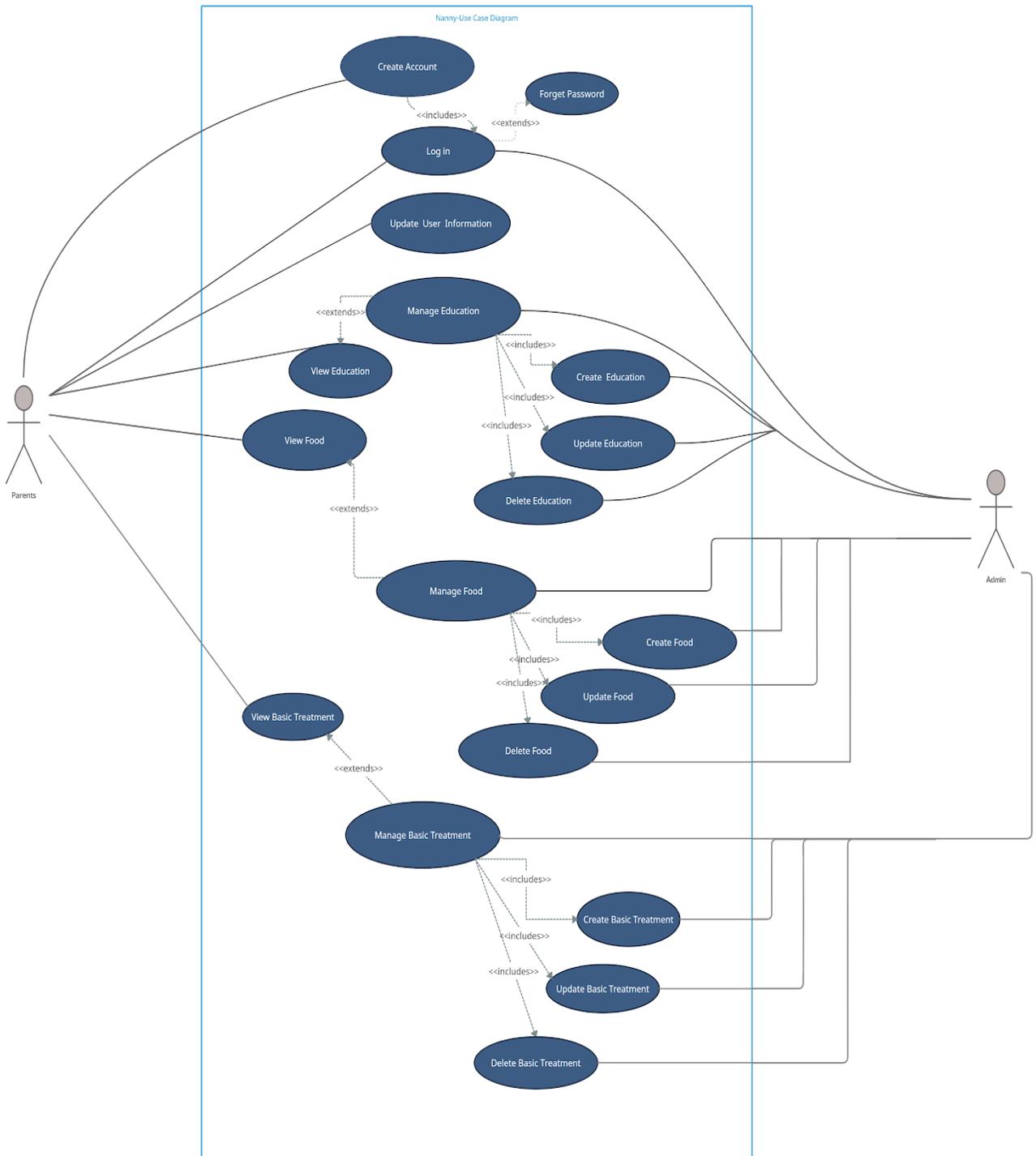
The system's reliability is dependent upon a stable environment. The design of the environmental control system for your data center must ensure that each system can operate reliably while remaining within the range of its operating specifications. So, I tried to make our systems environment more reliable so that users can easily access the system without any delay.

Chapter 3

System Analysis

3.1 Use Case Diagram

The functional requirements were derived from the following use case diagram. Use case diagrams to represent the functional interactions of a system. The stick figures represent the actors, which are external to the system and interact with the system through interfaces. The actors of the online child development care system are the Parents and the Provider. Parents use the system to schedule child development care to obtain services from Providers. The ovals are individual use cases that represent the functions the system performs to provide the services that the actors desire. The primary use cases of the online child development care system are: Find Provider, Manage Schedule, Manage Child development care, and Register. Parents interact with the following use cases: Register, Manage Child development care, Find Provider. The Provider interacts with the following use cases: Register, Manage Child development care, View Food, Basic Treatment, Education.



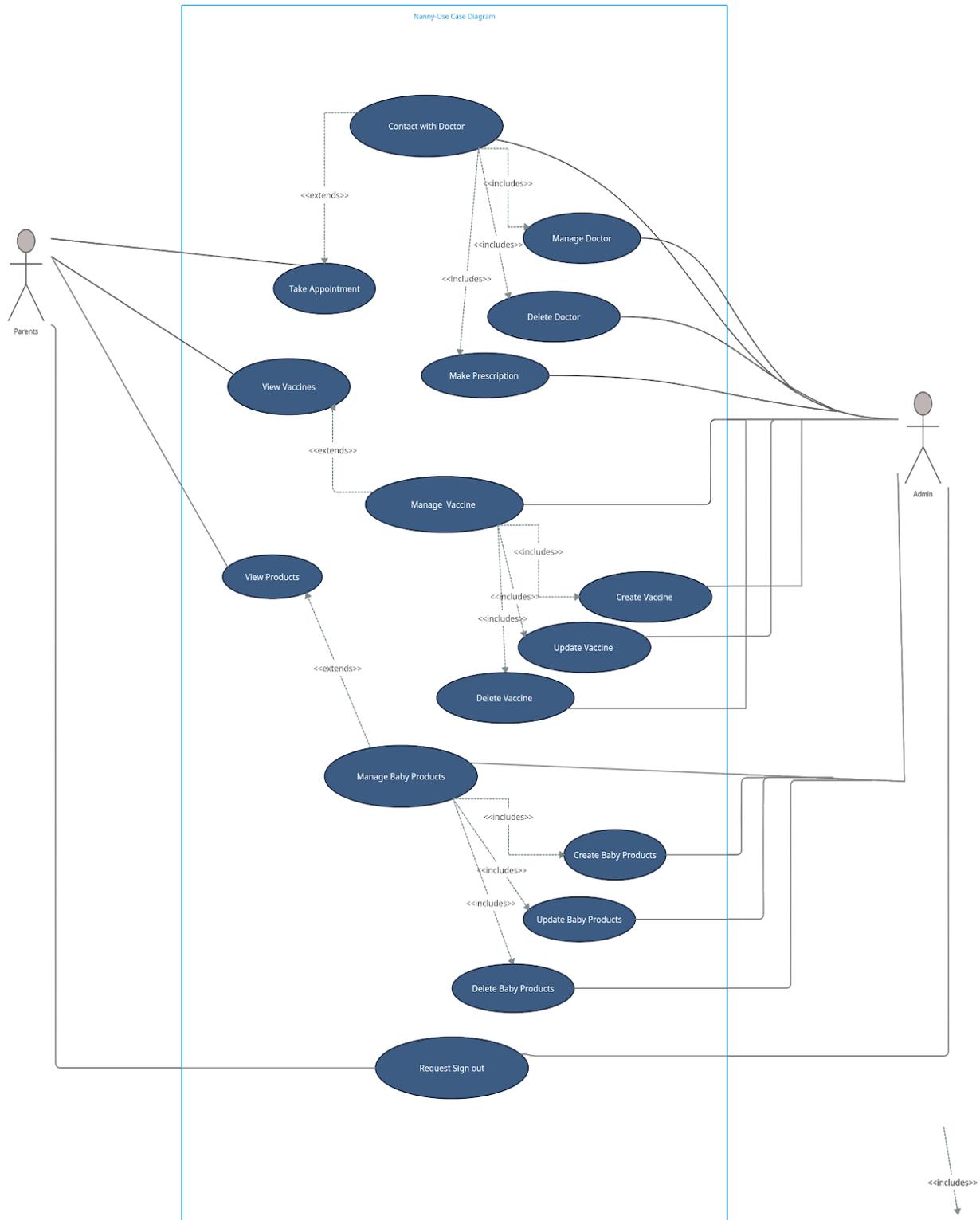


Figure 3.1: Use Case Diagram

3.1 Use Case Description for Create Account

Use Case No.	1
Use Case Name.	Register
Actor.	Parents and admin.
Description.	Allowing Parents, Parents, and Admin to login to the system.
Precondition.	Parents should remain on the registration page. Required username, email, and password.
Trigger.	Click the “login” Button
Flow of Events.	<ol style="list-style-type: none">1. Two text fields to give input of the Email and password respectively.2. Write the Email and password and also that other’s field.3. Then Click the submit button.4. System will send email on your provided Gmail address5. Then parents click the login button.6. Login page
Post Condition.	Parents, Parents, and Admin are logged into the system at a different Time.

3.2 Use Case Description

3.2.1 Use Case Description for Login

Use Case No.	1
Use Case Name.	Login
Actor.	Parents, Admin.
Description.	Allowing Parent, Parent, and Admin to login to the system.
Precondition.	Parent, Parent should remain on the login page. Required registration, and email verification.
Trigger.	Click the “Login” Button
Flow of Events.	<ol style="list-style-type: none">1. Two text fields to give input of the Email and password respectively.2. Write the phone and password on that field.3. Then Click the Login button.
Post Condition.	Parent, Parent, and Admin are logged into the system at a different Time.

Some of the high-level use cases have been decomposed into their use case diagrams (e.g., Register decomposes to lower-level use cases: Create Profile, Login, Change Profile).

3.2.3 Use Case Description for Manage Child development care

The online child development care system was also modeled as an analysis-level class diagram. Class diagrams represent the static associations between objects in the system. Analysis-level class diagrams avoid design and only concentrate on the concepts related to the domain. Furthermore, distinguishing between classes and attributes is deferred until detailed design. Although, the leaves of the analysis-level

class diagram are typically folded up into the parent object to become an attribute (e.g. Username would be an attribute of the Registered User class). Also, depending on the architecture chosen, this domain model would become the basis for designing the business layer of an enterprise architecture.

Mother or Parent and Provider are external actors of the system which would also be represented as objects in the system, derived from the Registered User class. Anonymous mothers that are using the system to find providers, will not be represented as objects in the system. Parent, Provider, Schedule, and Child development care would be the primary objects in the system and would be the most complex shown from the multiple relationships that they share. Another interesting item is how many attributes Child development care and Non-Work Hours share. The design might modify these items such that Child development care is a specialization of Non-Work Hours as to avoid code duplication during the Implementation phase. UML design artifacts, such as collaboration diagrams, would provide the exercise to flesh out the complete set of attributes and methods necessary to support the system. This analysis artifact helps the transition from analysis to design.

3.2.4 Use Case Description for Manage Parent from Parent side.

Finally, the dynamic aspects of the system are modeled as sequence diagrams. Each use case has its own corresponding sequence diagram. The sequence diagram shows the flow of data between the system and external actors through interfaces, as well as for the flow of data and message calls between objects internal to the system. Data cannot flow between actors and objects unless they have the appropriate association represented in the class diagram. Only some of the objects of the class diagram are required to support the function of each individual use case. The scenarios represented are the most common path through the system and do not detail alternate scenarios. The scenarios are also time dependent and happen in sequence. The transitions internal and external to scenarios might be either synchronous or asynchronous.

3.2.5 Use Case Description for Manage Education.

Use Case No.	5
Use Case Name.	Manage Education Service
Actor.	Admin,Parents.
Description.	Allowing Admin to manage the Education Service system. Admin can insert, edit, delete and Users & admin can show data.
Information.	Admin can create, update, delete and view but the users can only view the information. users will get help with education types of babies.
Precondition.	Admin should remain in the Dashboard page. Required input fields.
Trigger.	Click the “Insert, Update, Delete and Show” Button
Flow of Events.	<ol style="list-style-type: none">1. Text fields have to give input to the Education system.2. also Images have to give input in the system.3. Then Click the submit button.4. When edit your data click edit button5. Re-enter your data into the text fields which is right.6. Then Click the update button.7. When you delete your data then click the delete button.8. When showing your data then click the “Back to List” button.
Post Condition	Admin, Orginager are logged into the system at a different time.

3.2.6 Use Case Description for Manage Food.

Use Case No.	6
Use Case Name.	Manage Food Service
Actor.	Admin,Parents.
Description.	Allowing Admin to manage the Food Service system. Admin can insert, edit, delete and Users & admin can show data.
Information.	Admin can create, update, delete and view but the users can only view the information. users will get help with Food types of babies.
Precondition.	Admin should remain in the Dashboard page. Required input fields food.
Trigger.	Click the “Insert, Update, Delete and Show” Button
Flow of Events.	<ol style="list-style-type: none">1. Text fields have to give input to the Food system.2. also Images have to give input in the system.3. Then Click the submit button.4. When edit your data click edit button5. Re-enter your data into the text fields which is right.6. Then Click the update button.7. When you delete your data then click the delete button.8. When showing your data then click the “Back to List” button.
Post Condition	Admin, Orginager are logged into the system at a different time.

3.2.7 Use Case Description for Manage Basic Treatment.

Use Case No.	7
Use Case Name.	Manage Basic Treatment.
Actor.	Admin,Parents.
Description.	Allowing Admin to manage the Basic Treatment Service system. Admin can insert, edit, delete and Users & admin can show data.
Information.	Admin can create, update, delete and view but the users can only view the information. users will get help with Basic Treatment types of babies.
Precondition.	Admin should remain in the Dashboard page. Required input fields Basic Treatment.
Trigger.	Click the “Insert, Update, Delete and Show” Button
Flow of Events.	<ol style="list-style-type: none">1. Text fields have to give input to the Food system.2. also Images have to give input in the system.3. Then Click the submit button.4. When edit your data click edit button5. Re-enter your data into the text fields which is right.6. Then Click the update button.7. When you delete your data then click the delete button.8. When showing your data then click the “Back to List” button.
Post Condition	Admin, Orginager are logged into the system at a different time.

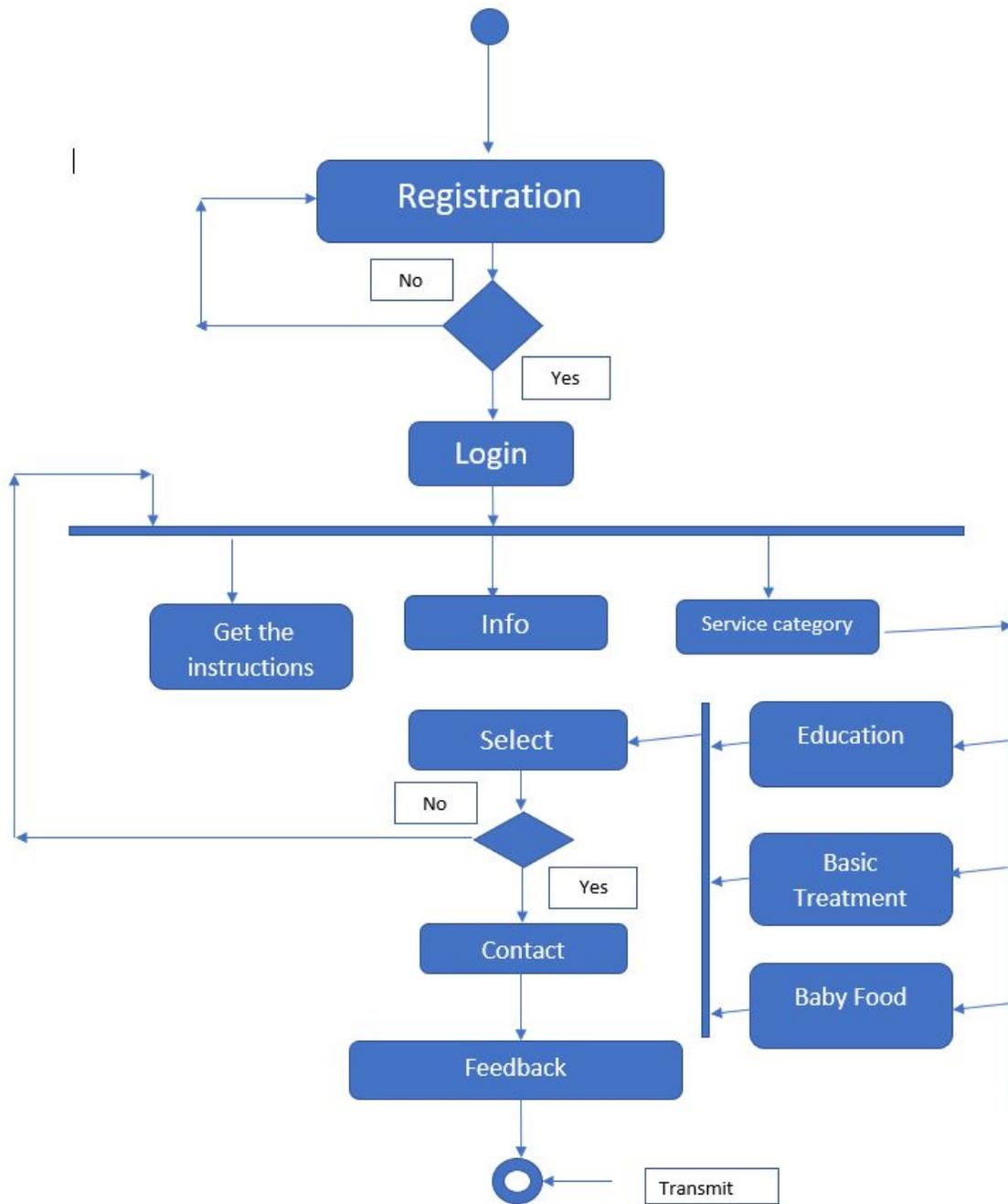
3.2.8 Use Case Description for Manage Vaccination.

Use Case No.	8
Use Case Name.	Manage Vaccination.
Actor.	Admin,Parents.
Description.	Allowing Admin to manage the Vaccination Service system. Admin can insert, edit, delete and Users & admin can show data.
Information.	Admin can create, update, delete and view but the users can only view the information. users will get help with Vaccination types of babies.
Precondition.	Admin should remain in the Dashboard page. Required input fields Vaccinations.
Trigger.	Click the “Insert, Update, Delete and Show” Button
Flow of Events.	<ol style="list-style-type: none">1. Text fields have to give input to the Food system.2. also Images have to give input in the system.3. Then Click the submit button.4. When edit your data click edit button5. Re-enter your data into the text fields which is right.6. Then Click the update button.7. When you delete your data then click the delete button.8. When showing your data then click the “Back to List” button.
Post Condition	Admin, Orginager are logged into the system at a different time.

3.5.6 Use Case Description for Manage Parents Profile.

Use Case No.	6
Use Case Name.	Manage Parents Profile
Actor.	Parents.
Description.	Allowing Parents to manage his personal information to the system. Parents can insert, edit, delete and show data.
Precondition.	Parents should remain in the profile page. Required full name, gender, Date of birth, mobile and additional email.
Trigger.	Click the “Insert, Update, Delete and Show” Button
Flow of Events.	<ol style="list-style-type: none">1. Five text fields to give input of the full name, gender, Date of birth, mobile and additional email respectively.2. Write the full name, gender, Date of birth, mobile and additional email on that field.3. Then Click the submit button.4. When edit your data click edit button5. Re-enter your data into the text fields which is right.6. Then Click the update button.7. When you delete your data then click the delete button.8. When showing your data then click the “Back to List” button.
Post Condition	Parents, Parents and Admin are logged into the system at a different time

3.3.2 Activity Diagram for Baby care



1.

Chapter 4: System Design Specification

4.1 Sequence Diagram

4.1.1 Sequence Diagram for Login

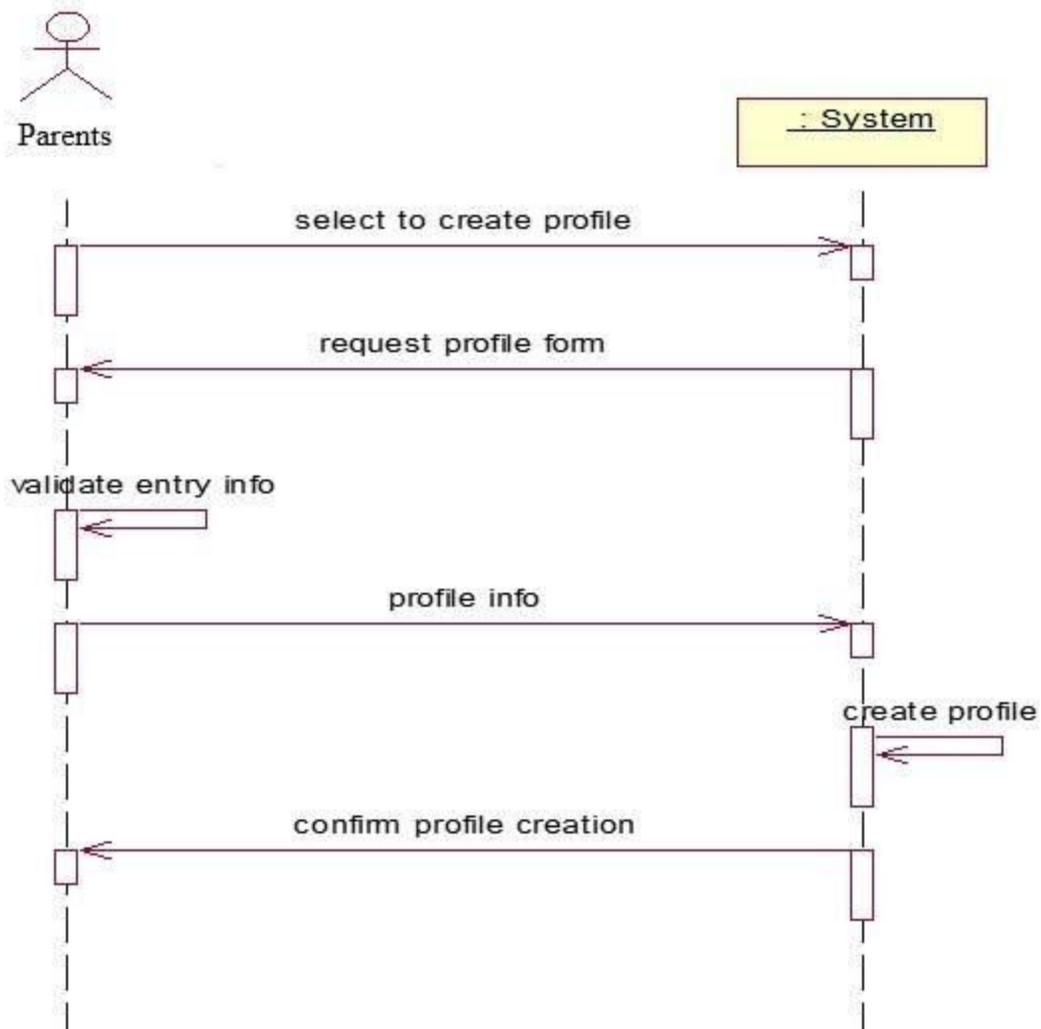


Figure 4.1.1: Sequence Diagram for Login

4.1.2 Sequence Diagram for Register

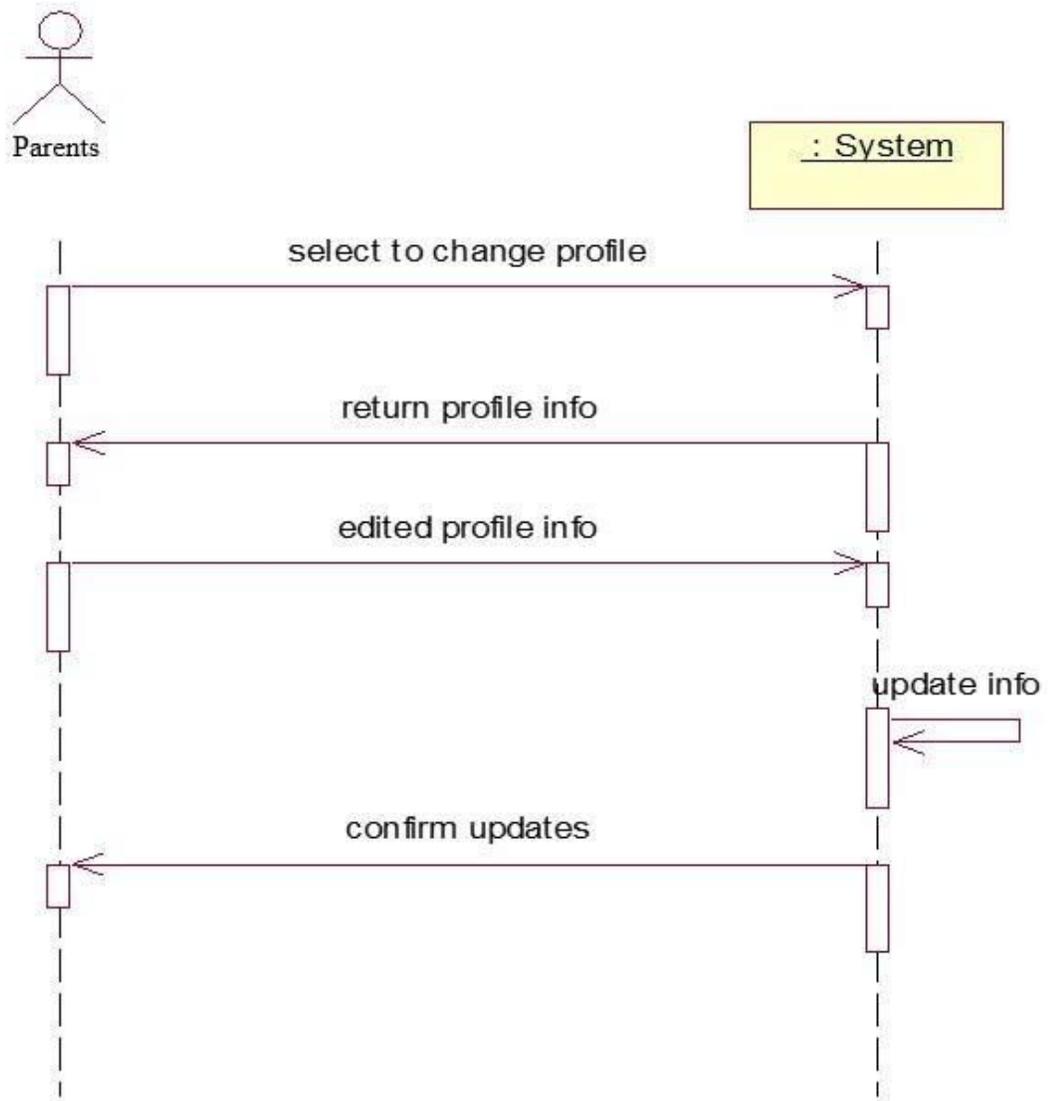


Figure 4.1.2: Sequence Diagram for Register

2.

4.1.3 Sequence Diagram for Parents and Parents Profile

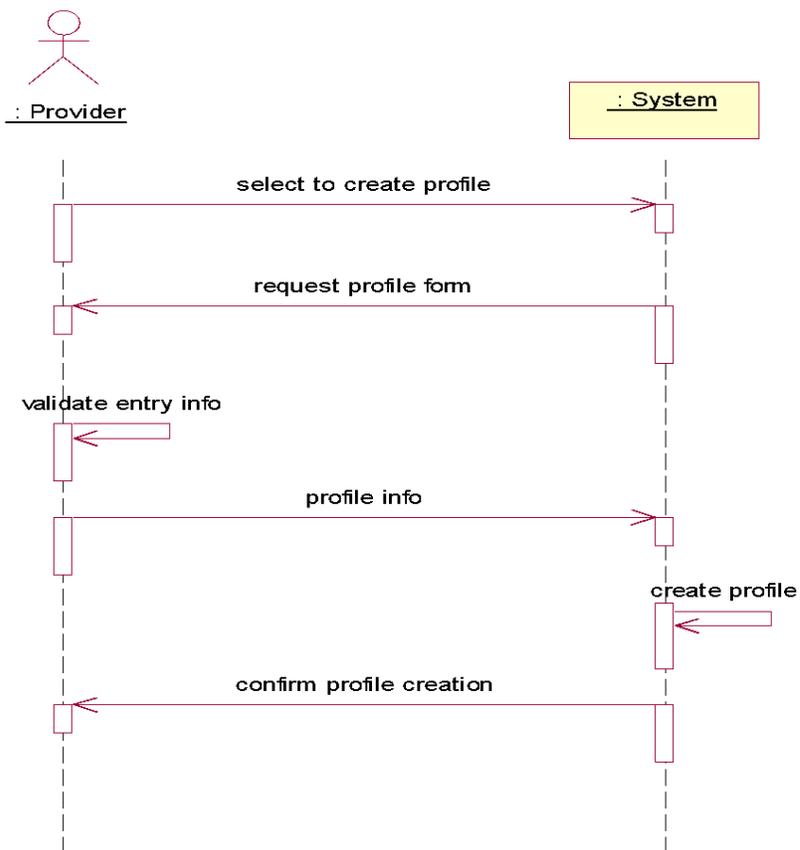


Figure 4.1.3: Sequence Diagram for Create Profile

4.1.4 Sequence Diagram for Parents and Parents Profile Change

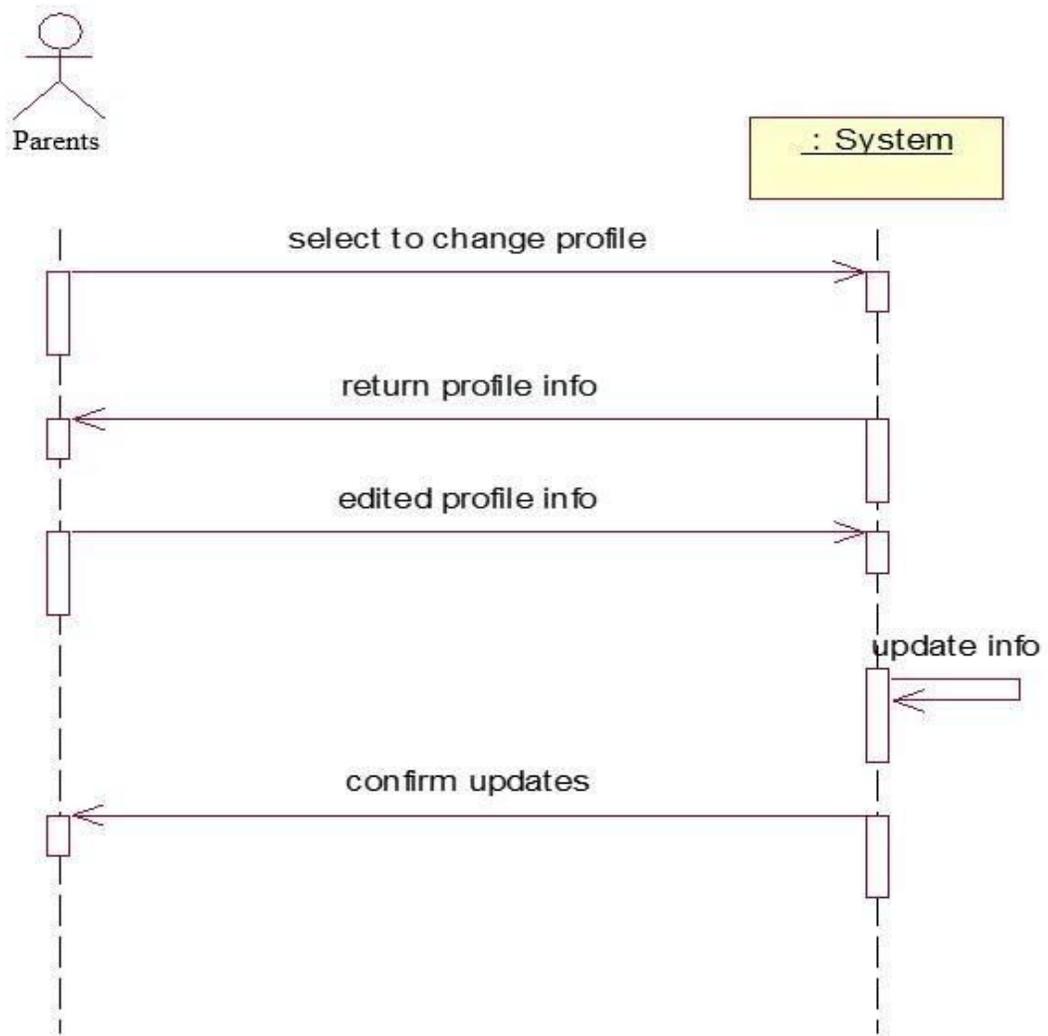


Figure 4.1.4: Sequence Diagram for Change Profile

4.1.5 Sequence Diagram for Confirm Child development care

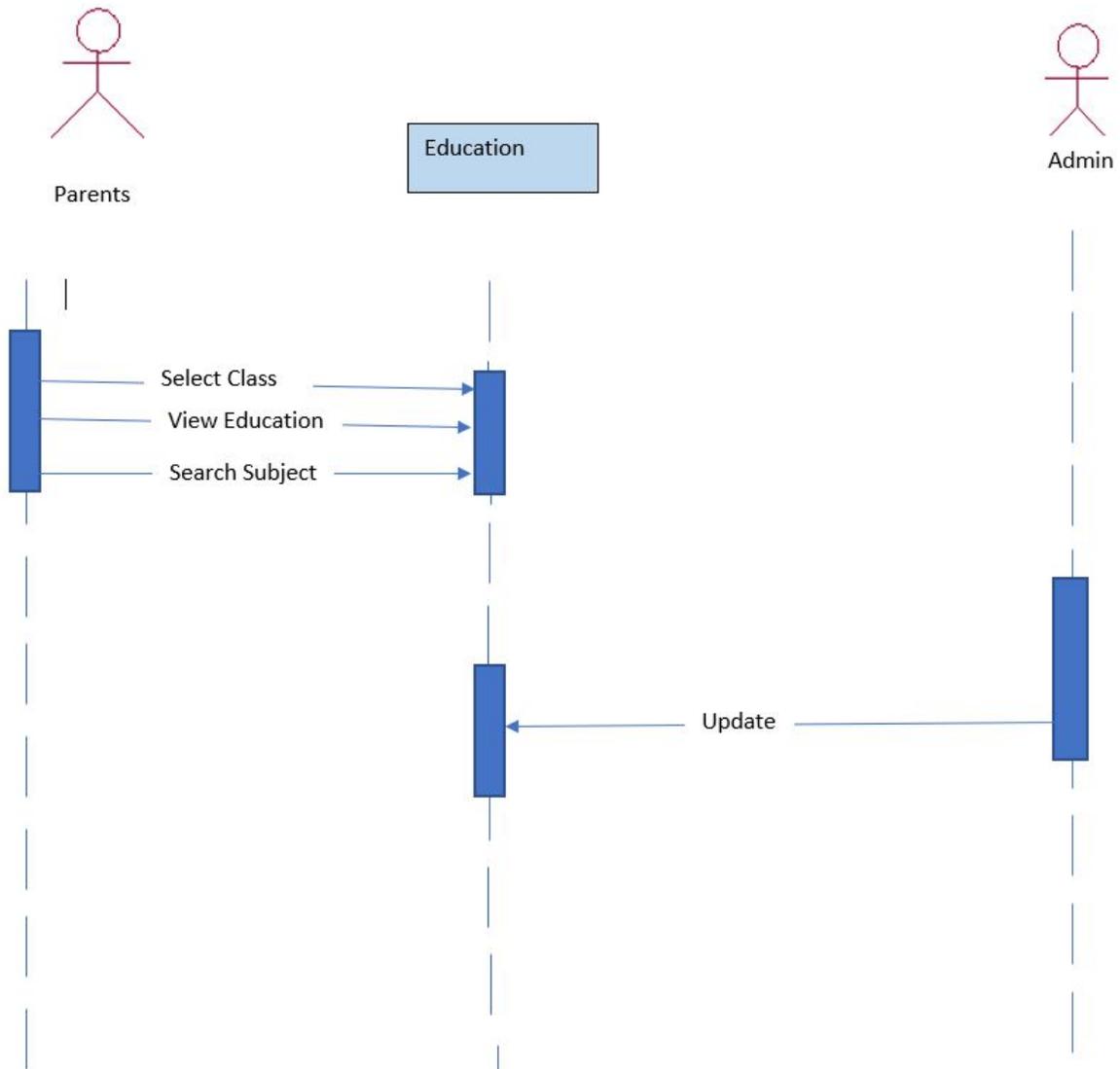


Figure 4.1.5: Sequence Diagram for Confirm Child development care

4.1.6 Sequence Diagram for Cancel Child development care

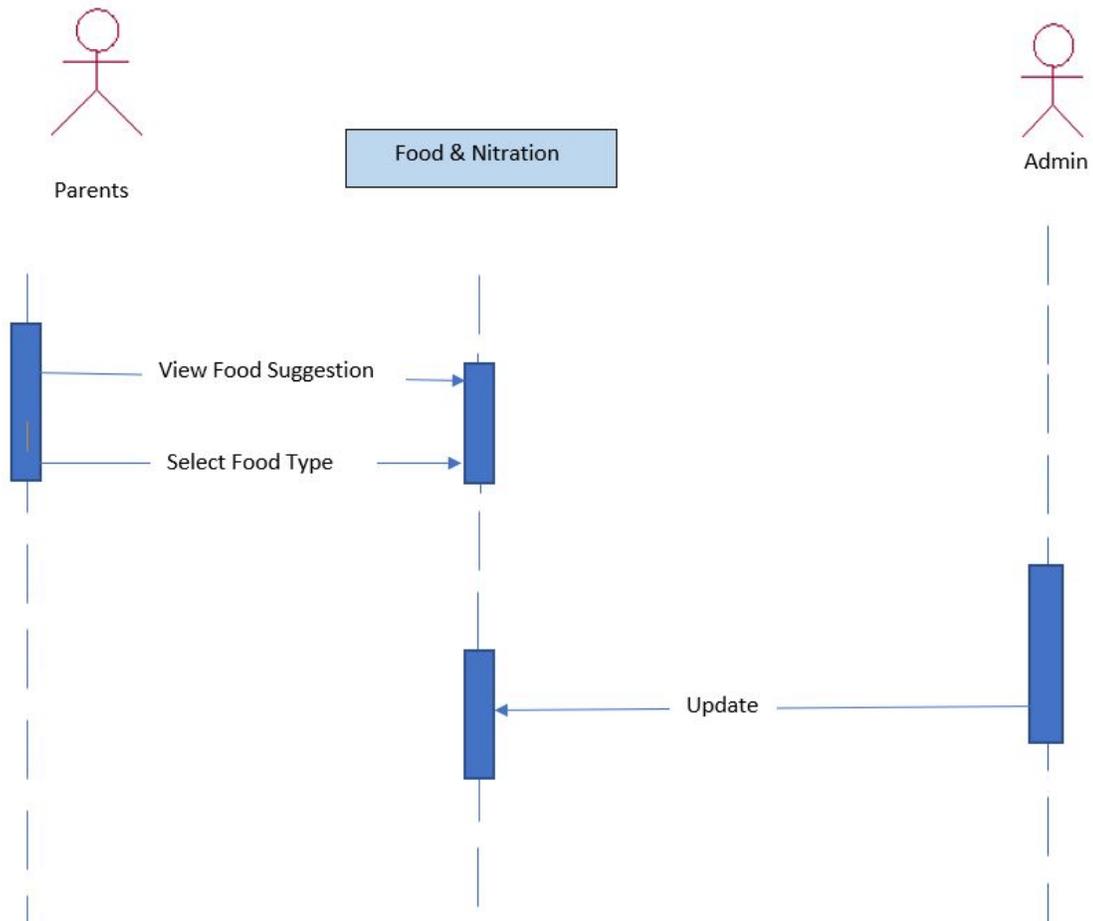


Figure 4.1.6: Sequence Diagram for Cancel Child development care

4.1.7 Sequence Diagram for Remainder Child development care

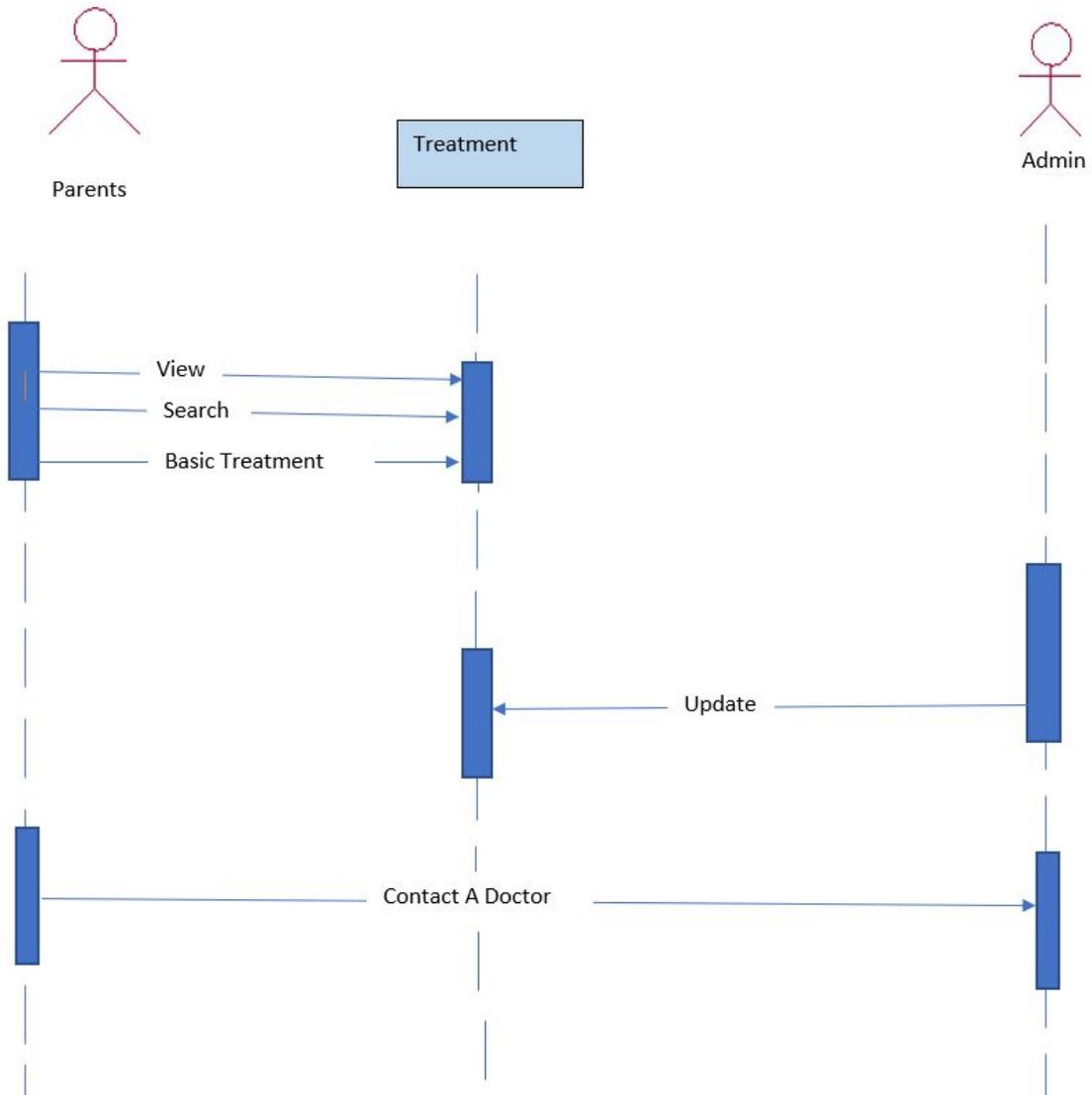


Figure 4.1.7: Sequence Diagram for Remainder Child development care

4.1.8 Sequence Diagram for Remainder Child development care

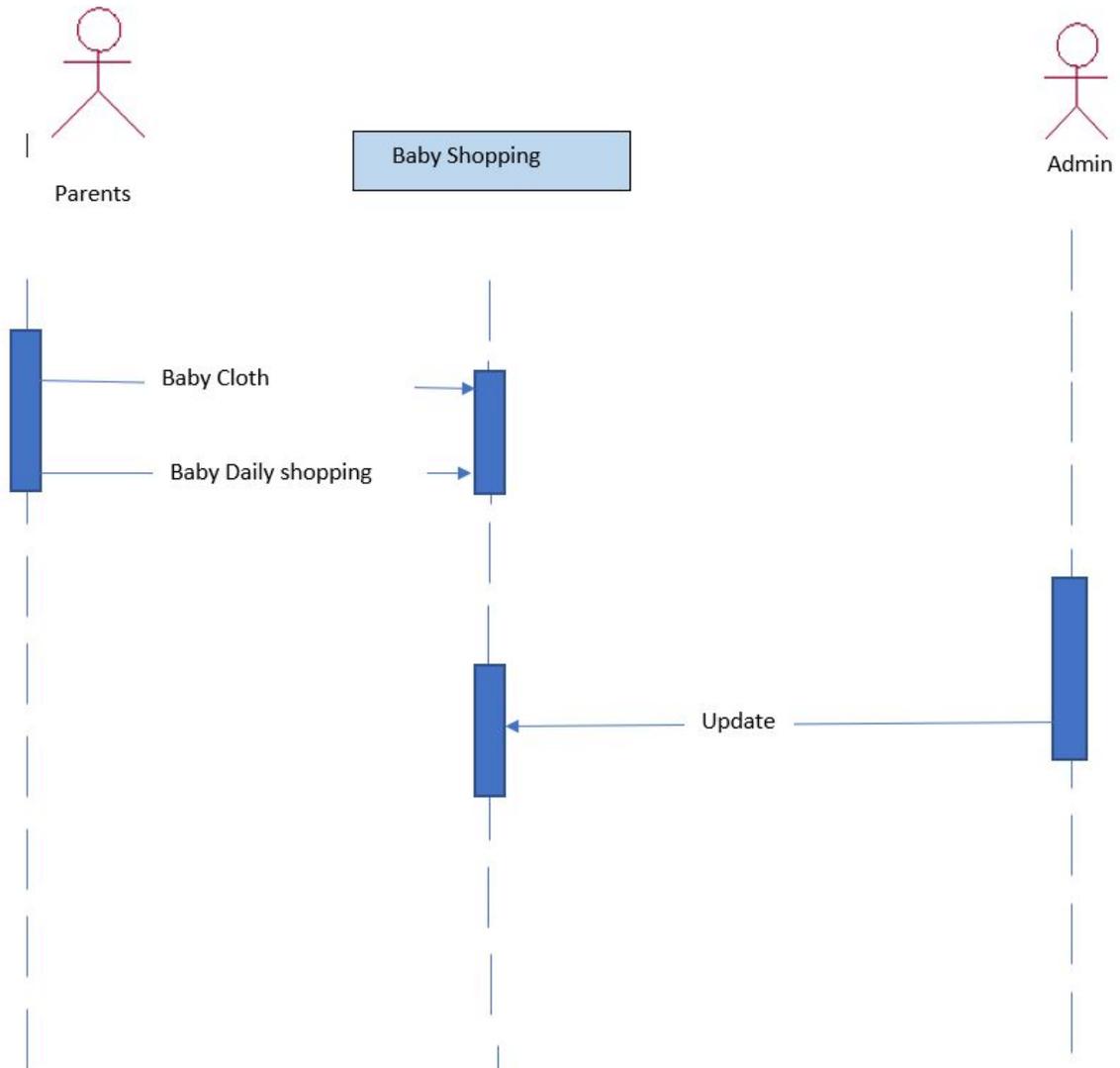


Figure 4.1.7: Sequence Diagram for Remainder Child development care

4.2 Class Diagram

The total system will follow the MVC (MODEL VIEW CONTROLLER) pattern for these the model and controller class diagrams are given below:

- **Model** - A model contains the data of the application. A data can be a single object or a collection of objects.
- **Controller** - A controller contains the business logic of an application. Here, the @Controller annotation is used to mark the class as the controller.
- **View** - A view represents the provided information in a particular format. Generally, JSP+JSTL is used to create a view page. Although spring also supports other view technologies such as Apache Velocity, Thyme leaf and Free Marker.
- **Front Controller** - In Spring Web MVC, the Dispatcher Servlet class works as the front controller. It is responsible to manage the flow of the Spring MVC application.

4.2.1 Class Diagram for the model classes

Role domain
+ Parents: string + Admin: string + Doctor: string + Seller: string +CreateRole (String roleName): String
Sign In domain
+ Phone No.: string + Password: string + roles : hasMap<string>
+createLogin (detailsInformation): string
Generate :jwtToken

ParentsInformation domain

```
+ name; string  
+ gender; string  
+ age; integer  
+ bloodGroup: string  
+ username; string  
+ activeStatus; string
```

```
+ createParents (detailsInformation); string  
  
+ getParentsProfile (patientInformation);  
string  
  
+ updatePatientProfile(BigInteger id); string
```

DoctorInformation domain

```
+ name; string  
+ gender; string  
+ qualification; string  
+ mobile; string  
+ email; string  
+ address; string  
+ chambers; string
```

```
+ createDoctorWithSignUp(add information);  
string  
  
+ getDoctorProfile(add information); string  
  
+ updateDoctorProfile (add information);  
string  
  
+addingStatus (add information); string
```

BabyInformation domain

```
+ name;string  
+ gender; string  
+ birthDate; string  
+ bloodGroup: string
```

```
+ createBaby (detaisInformation); string  
  
+ babyAge (detaisInformation); string  
  
+ getBabyProfile (patientInformation); string  
  
+ updateBabyProfile(BigInteger id); string
```

Service domain
<pre>+ education; string + basictreatment; string + babyfood; string</pre>
<pre>+ getEducation (add information); string + getBasicTreatment (add information); string + getbabyfood (add information); string</pre>

OneToMany Relationship between Services , BabyInformation, DoctorInformation, ParentsInformation, those domain

Education domain
<pre>+ chiefComplains; string + onExaminations; string + diagnosis; string + pharmacies; string + treatmentServices; string + advices; string + patientId; biginteger</pre>
<pre>+doctorCreatePrescription(add info):list<String> + patientGetPrescription(biginteger id); biginteger +editPrescription() +DeletePrescription()</pre>

Vaccination domain

+ vaccines; string
+ impVaccines; string
+ scheduleVaccines; string
+ VaccinesServices; string
+ advices; string

+doctorCreatePrescription(add info):list<String>
+ patientGetPrescription(biginteger id);
biginteger
+editPrescription()
+DeletePrescription()

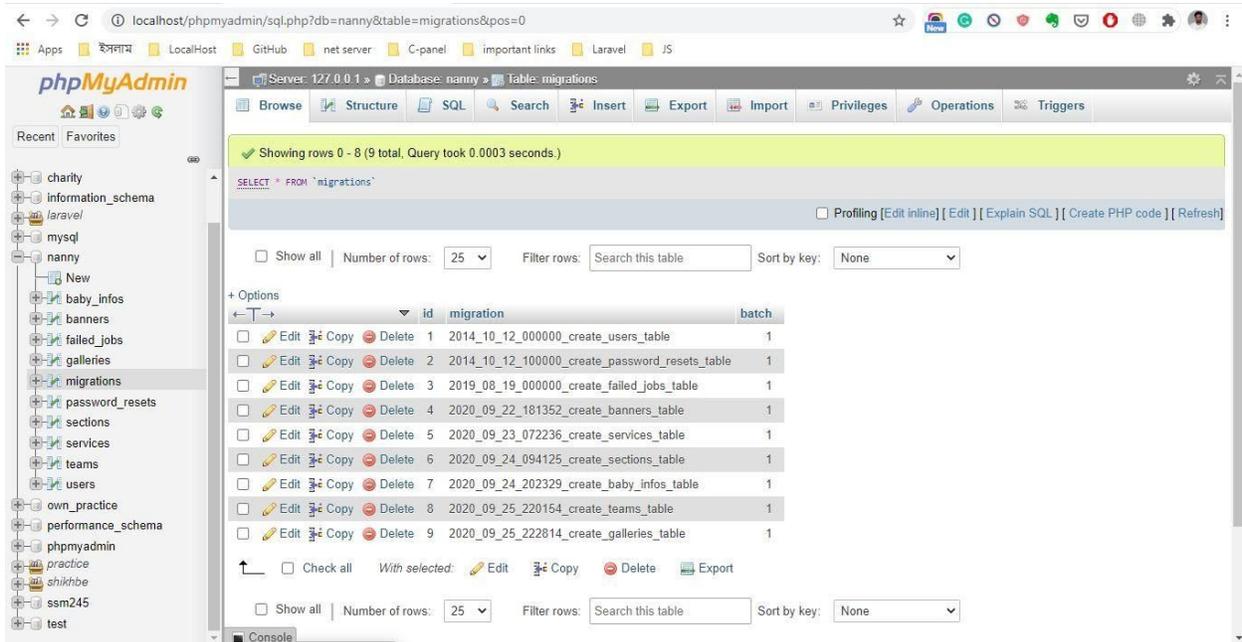
food domain

+ soup; string
+ onjuice; string
+ protein; string
+ pharmacies; string
+ treatmentServices; string
+ advices; string
+ patientId; biginteger

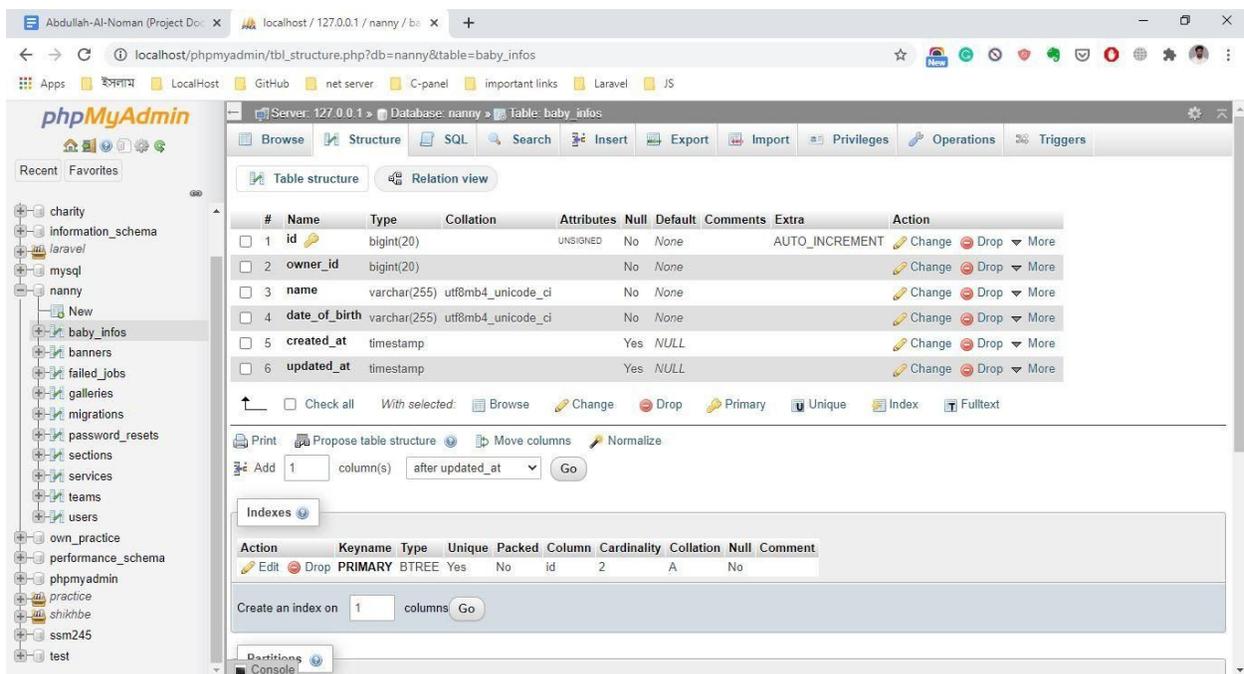
+adminCreatefood(add info):list<String>
+ parentsGetFoodSuggestion(biginteger id); biginteger
+editFood()
+DeleteFood()

4.3 Database Design

4.3 Migrations



4.3 babyinfo Table:



4.3 Gallery Table:

Server: 127.0.0.1 » Database: nanny » Table: galleries

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	bigint(20)		UNSIGNED	No	None		AUTO_INCREMENT	Change Drop More
2	title	varchar(255)	utf8mb4_unicode_ci		No	None			Change Drop More
3	image	varchar(255)	utf8mb4_unicode_ci		No	None			Change Drop More
4	created_at	timestamp			Yes	NULL			Change Drop More
5	updated_at	timestamp			Yes	NULL			Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	id	8	A	No	

4.3 SectionsTable:

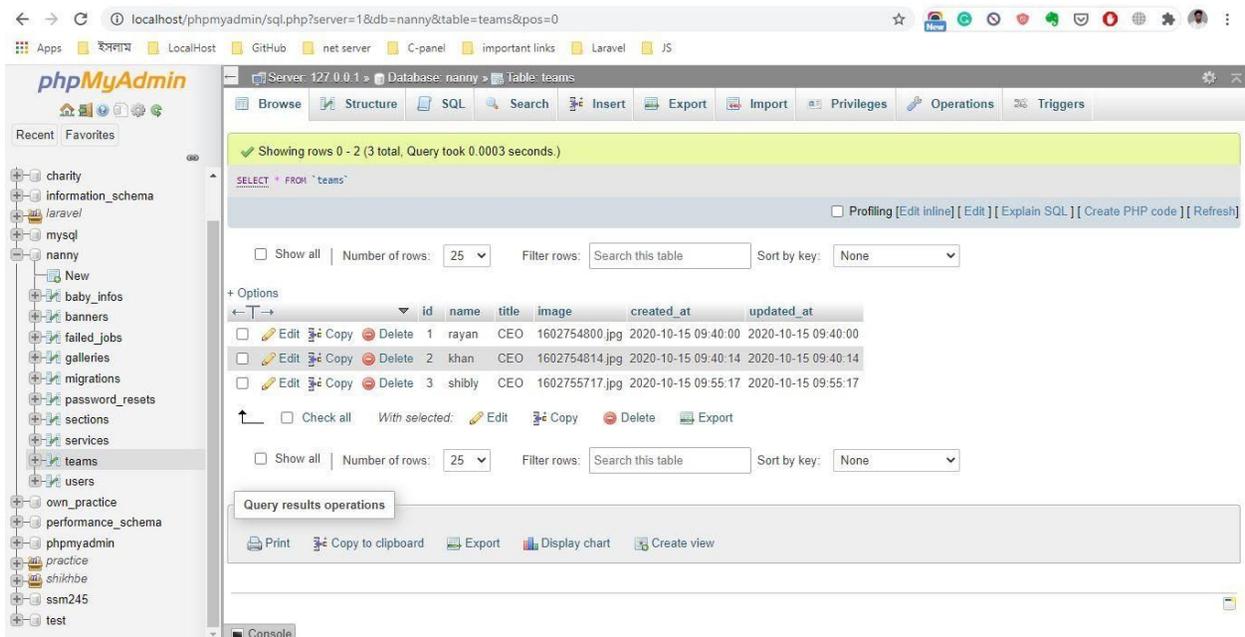
Server: 127.0.0.1 » Database: nanny » Table: sections

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	bigint(20)		UNSIGNED	No	None		AUTO_INCREMENT	Change Drop More
2	service_id	bigint(20)			No	None			Change Drop More
3	age_range	varchar(255)	utf8mb4_unicode_ci		No	None			Change Drop More
4	title	varchar(255)	utf8mb4_unicode_ci		No	None			Change Drop More
5	details	longtext	utf8mb4_unicode_ci		No	None			Change Drop More
6	created_at	timestamp			Yes	NULL			Change Drop More
7	updated_at	timestamp			Yes	NULL			Change Drop More

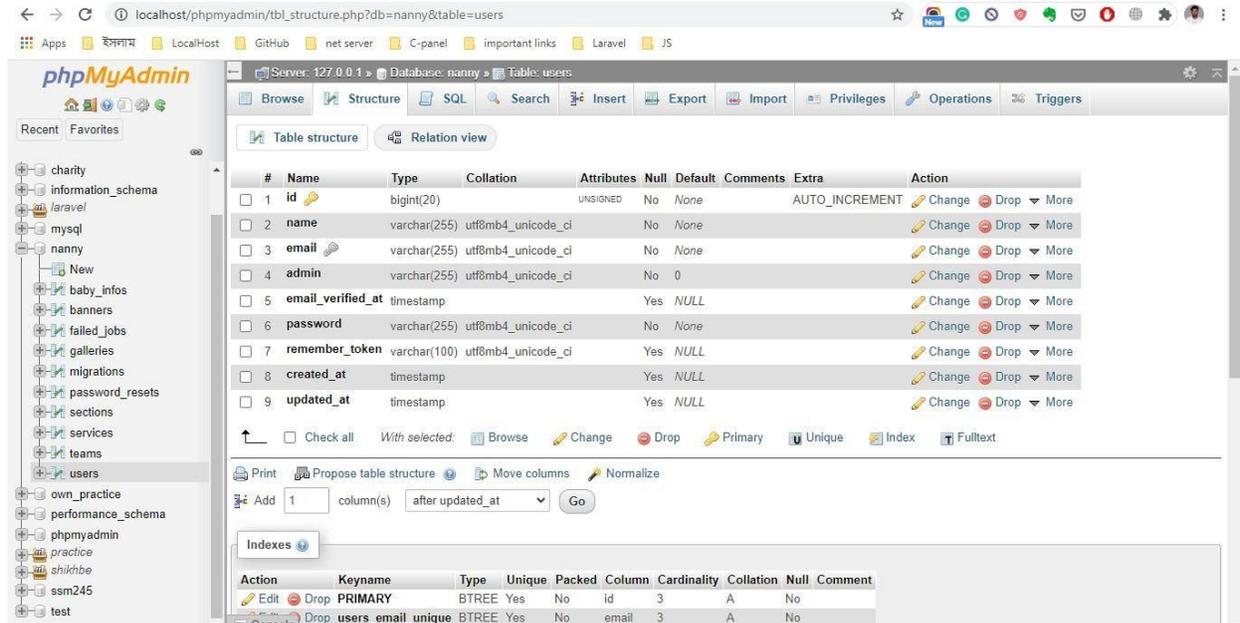
Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	id	0	A	No	

4.3 TeamsTable:



4.3 Users Table:



4.4 Development Tools & Technology:

Nanny Project tools are:

1. Xampp
2. VisualStdio Code
3. Windows 10
4. Git Bash

Requirement of Project Technology:

1. Laravel 7.2
2. MySQLi
3. HTML 5
4. CSS 3
5. Bootstrap
6. JQuery

4.4.1 User Interface

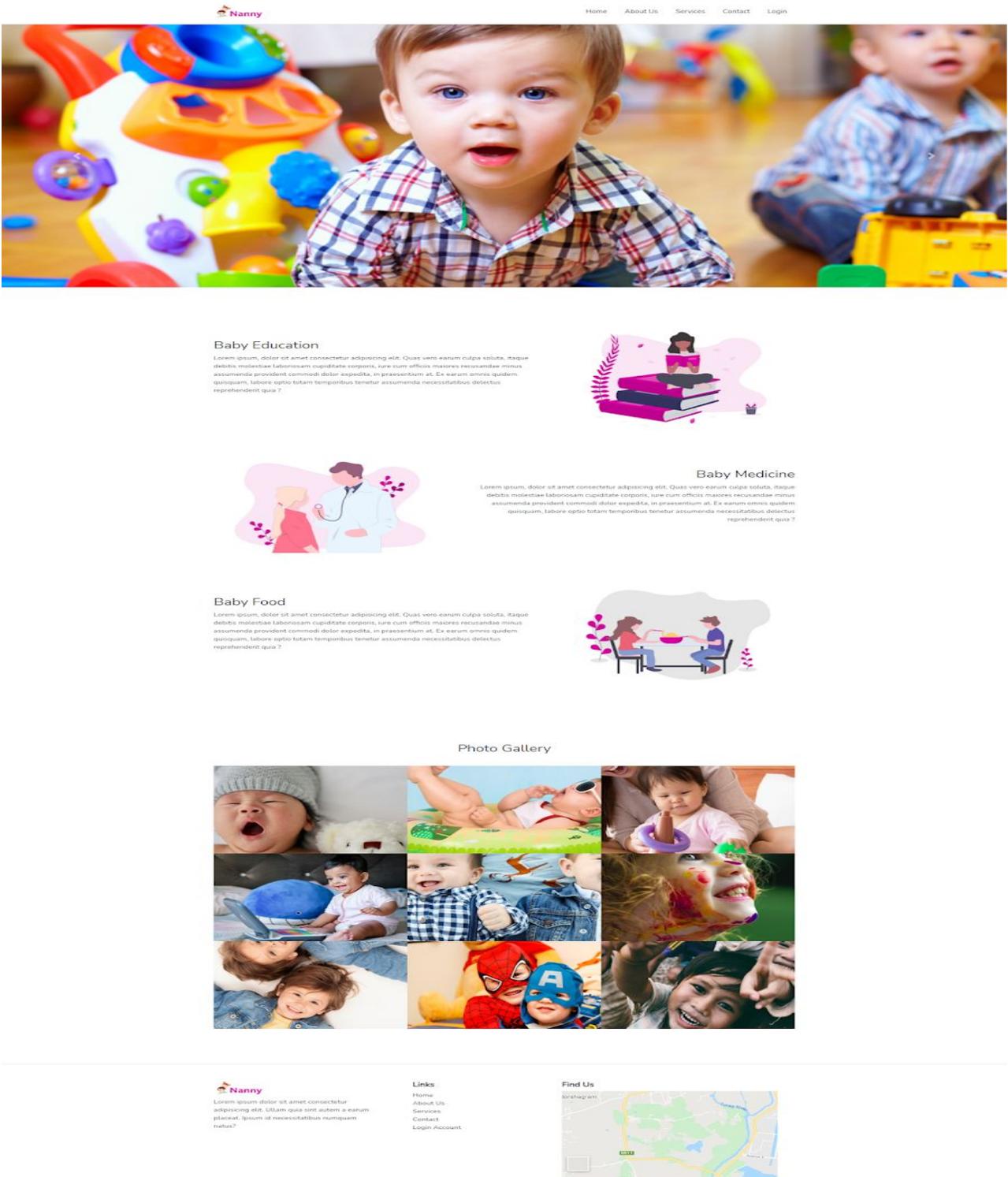


figure:Homepage



OUR SERVICES

WE HAVE 25 YEARS EXPERIENCE IN BABY CARE

WE PROVIDE



Education

Children at their earliest ages should learn and realize the importance of education in their lives



Basic Treatment

All children deserve high-quality medical care. You must be aware of the most up-to-date treatment guidelines for your children.



Baby Food

Nutrition is important at every age. Your children need proper nutrients stay healthy and strong



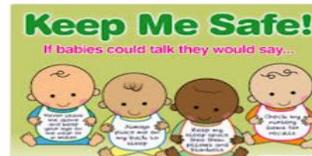
Childhood Vaccination

Vaccines protect your child's health by preventing them from contracting severe contagious diseases.



Children's Self-Awareness

Tips and strategies for helping your child develop better Self-Awareness skills for a healthier life and a happier future.



Baby Safety

children should be fully protected so they can survive, grow, learn and develop to their fullest potential.

Call us today at +8801688126772 or Email us at example@gmail.com [Contact Us](#)

Lorem ipsum dolor sit amet consectetur adipisicing elit. Odio, soluta.

UPCOMING SERVICES



Shopping

Make your Kids Healthy & Smarter

Links

Find Us



figure:Servicepage

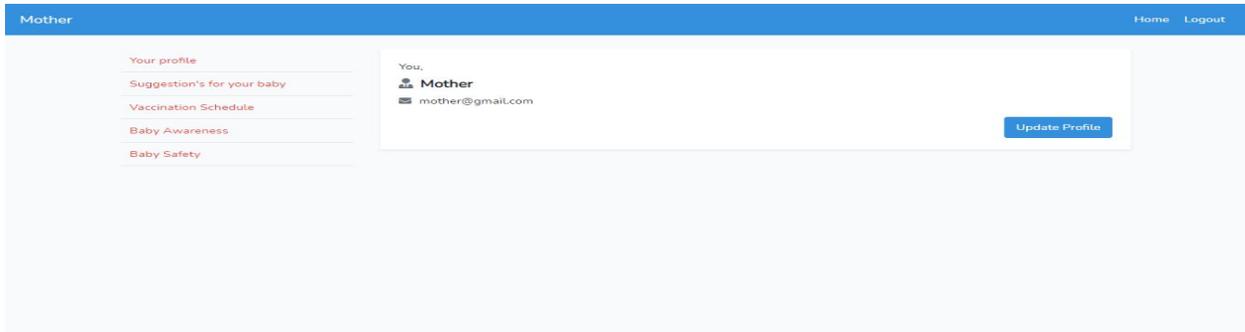


figure:userProfile

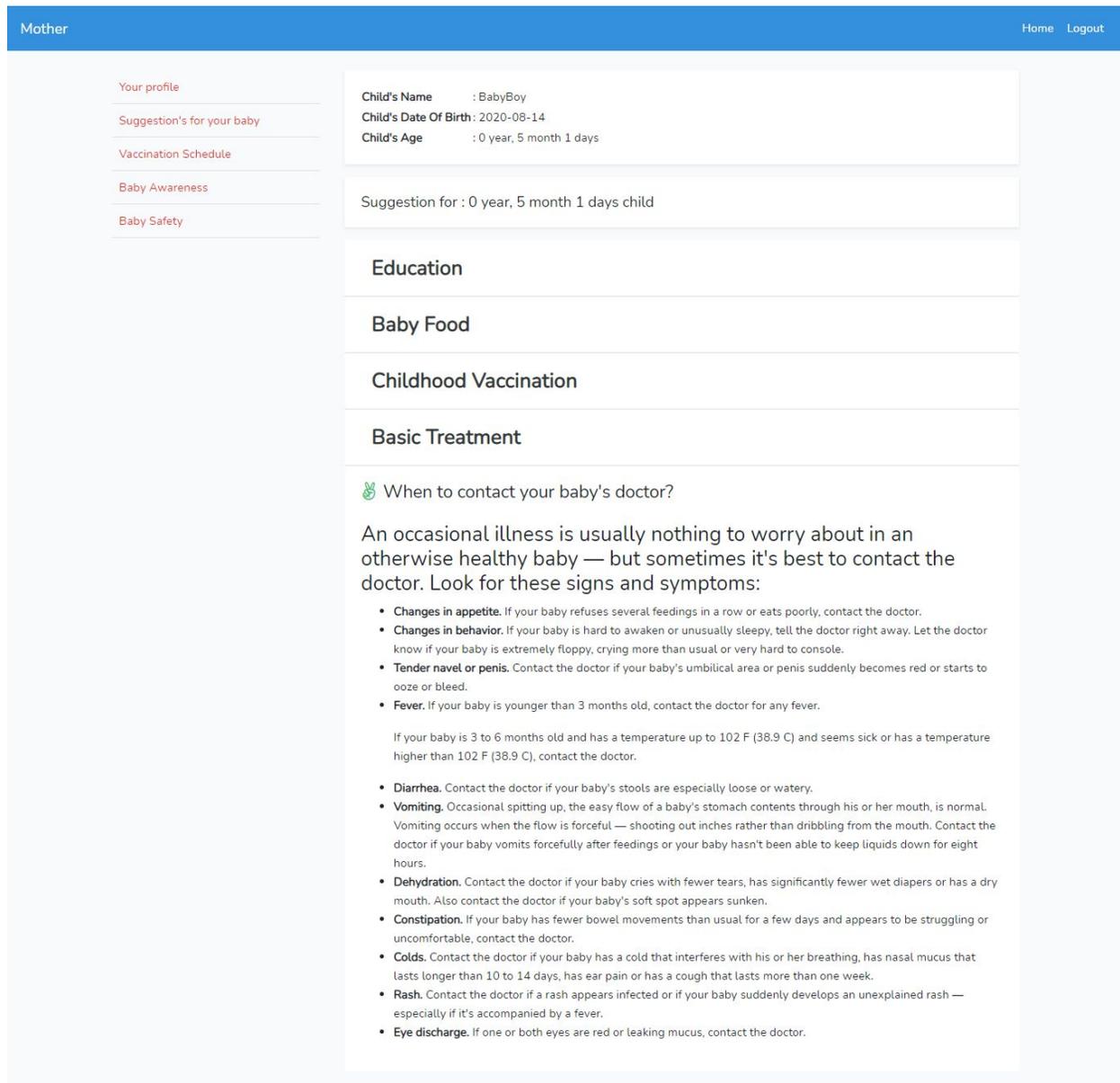


figure:suggestions for baby

[Your profile](#)[Suggestion's for your baby](#)[Vaccination Schedule](#)[Baby Awareness](#)[Baby Safety](#)

Childhood Vaccination



[1] Hepatitis B vaccine: This vaccine is given to most newborns before they are discharged from the hospital. The first dose is typically given at birth, the second dose at age 1 to 2 months, and the third dose at age 6 to 18 months. Infants who did not receive a dose at birth should begin the series as soon as possible.

[2] Rotavirus vaccine: Depending on the vaccine used, two or three doses of the vaccine are required. With one vaccine, the first dose is given at age 2 months and the second dose at age 4 months. With the other vaccine, the first dose is given at age 2 months, the second dose at age 4 months, and the third dose at age 6 months.

[3] Haemophilus influenzae type b (Hib) vaccine: Depending on the vaccine used, three or four doses of the Hib vaccine are required. With one vaccine, the first dose is given at age 2 months, the second dose at age 4 months, and the third dose at age 12 to 15 months. With the other vaccine, the first dose is given at age 2 months, the second dose at age 4 months, the third dose at age 6 months, and the fourth dose at age 12 to 15 months.

[4] Poliovirus vaccine: Four doses of the vaccine are given. The first dose is given at age 2 months, the second dose at age 4 months, the third dose at age 6 to 18 months, and the fourth dose at age 4 to 6 years.

[5] Diphtheria, tetanus, and acellular pertussis (DTaP) vaccine: Before age 7, children are given the DTaP preparation. Five doses of DTaP are given. The first dose is given at age 2 months, the second dose at age 4 months, the third dose at age 6 months, the fourth dose at age 15 to 18 months, and the fifth dose at age 4 to 6 years.

DTaP is followed by a one-lifetime dose of tetanus, diphtheria, and pertussis (Tdap) booster given at age 11 to 12 years (shown as the number 6 on the above schedule). This dose is followed by a tetanus-diphtheria booster every 10 years.

[6] Pneumococcal vaccine: Four doses of the vaccine are given. The first dose is given at age 2 months, the second dose at age 4 months, the third dose at age 6 months, and the fourth dose at age 12 to 15 months.

[7] Meningococcal vaccine: Two doses of the vaccine are given. The first dose is given at age 11 to 12 years and the second dose at age 16 years (not shown on the above schedule).

[8] Influenza (flu) vaccine: The influenza vaccine should be given yearly to all children, beginning at age 6 months. There are two types of vaccines available. One or two doses are needed, depending on age and other factors. Most children need only one dose. Children who are 6 months to 8 years old who have received fewer than two doses or whose influenza vaccination history is unknown should receive two doses at least 4 weeks apart.

[9] Measles-mumps-rubella (MMR) vaccine: Two doses of the vaccine are given. The first dose is given at age 12 to 15 months and the second dose at age 4 to 6 years.

[10] Varicella (chickenpox) vaccine: Two doses of the vaccine are given. The first dose is given at age 12 to 15 months and the second dose at age 4 to 6 years.

[11] Hepatitis A vaccine: Two doses of the vaccine are needed for lasting protection. The first dose is given between ages 12 to 23 months, and the second dose 6 to 18 months later. If children over age 24 months have not been vaccinated, they can still be given the hepatitis A vaccine if desired.

[12] Human papillomavirus (HPV) vaccine: Routine vaccination is recommended at age 11 to 12 years (can start at age 9 years) and for previously unvaccinated or not adequately vaccinated people up through age 26 years (not shown on the above schedule). The human papillomavirus vaccine is given to girls and boys in 2 or 3 doses. The number of doses depends on how old the child is when the first dose is given. Those given the first dose at age 9 to 14 years are given 2 doses, separated by at least 5 months. Those given the first dose at age 15 years or older are given 3 doses. The second dose is given at least 1 month after the first, and the third dose is given at least 5 months after the first dose.

figure:Vaccination for baby

[Your profile](#)[Suggestion's for your baby](#)[Vaccination Schedule](#)[Baby Awareness](#)[Baby Safety](#)

Baby Safety

Did you know that hundreds of children younger than 1 year die every year in the United States because of injuries — most of which can be prevented?



Often, injuries happen because parents are not aware of what their children can do. Your child is a fast learner and will suddenly be able to roll over, crawl, sit, and stand. Your child may climb before walking, or walk with support months before you expect. Your child will grasp at almost anything and reach things he or she could not reach before.

Falls

Because of your child's new abilities, he or she will fall often. Protect your child from injury. Use gates on stairways and doors. Install operable window guards on all windows above the first floor. Remove sharp-edged or hard furniture from the room where your child plays.

Do not use a baby walker. Your child may tip it over, fall out of it, or fall down the stairs in it. Baby walkers allow children to get to places where they can pull hot foods or heavy objects down on themselves.

If your child has a serious fall or does not act normally after a fall, call your doctor.

Burns

At 6 to 12 months children grab at everything. NEVER leave cups of hot coffee on tables or counter edges. And NEVER carry hot liquids or food near your child or while holding your child. He or she could get burned. Also, if your child is left to crawl or walk around stoves, wall or floor heaters, or other hot appliances, he or she is likely to get burned. A safer place for your child while you are cooking, eating, or unable to provide your full attention is the playpen, crib, or stationary activity center, or buckled into a high chair.

If your child does get burned, put cold water on the burned area immediately. Keep the burned area in cold water for a few minutes to cool it off. Then cover the burn loosely with a dry bandage or clean cloth. Call your doctor for all burns. To protect your child from tap water scalds, the hottest temperature at the faucet should be no more than 120°F. In many cases you can adjust your water heater.

Make sure you have a working smoke alarm on every level of your home, especially in furnace and sleeping areas. Test the alarms every month. It is best to use smoke alarms that use long-life batteries, but if you do not, change the batteries at least once a year.

Drowning

At this age your child loves to play in water. Empty all the water from a bathtub, pail, or any container of water immediately after use. Keep the door to the bathroom closed. NEVER leave your child alone in or near a bathtub, pail of water, wading or swimming pool, or any other water, even for a moment. Drowning can happen in less than 2 inches of water. Knowing how to swim does NOT mean your child is safe in or near water. Stay within an arm's length of your child around water.

If you have a swimming pool, now is the time to install a fence that separates the house from the pool. The pool should be fenced in on all 4 sides. Most children drown when they wander out of the house and fall into a pool that is not fenced off from the house. Be prepared — install a fence around your pool now, before your child begins to walk!

Poisoning and Choking

Your child will explore the world by putting anything and everything into his or her mouth. NEVER leave small objects or balloons in your child's reach, even for a moment. Don't feed your child hard pieces of food such as hot dogs, raw carrots, grapes, peanuts, or popcorn. Cut all of his or her food into thin slices to prevent choking.

Be prepared if your child starts to choke. Learn how to save the life of a choking child. Ask your doctor to recommend the steps you need to take.

Children will put everything into their mouths, even if it doesn't taste good. Many ordinary things in your house can be poisonous to your child. Be sure to keep household products such as cleaners, chemicals, and medicines up, up, and away, completely out of sight and reach. Never store eye drain cleaners in your home. Use safety latches or locks on drawers and cupboards. Remember, your child doesn't understand or remember "no" while exploring.

If your child does eat something that could be poisonous, then you need to go hospital immediately. Do not make your child vomit.

Strangulation and Suffocation

Place your baby's crib away from windows. Cords from window blinds and draperies can strangle your child. Use cordless window coverings, or if this is not possible, tie cords high and out of reach. Do not knot cords together.

Plastic wrappers and bags form a tight seal if placed over the mouth and nose and may suffocate your child. Keep them away from your child.

And Remember Car Safety

Car crashes are a great danger to your child's life and health. Most injuries and deaths caused by car crashes can be prevented by the use of car safety seats EVERY TIME your child is in the car. All infants and toddlers should ride in a rear-facing car safety seat as long as possible, until they reach the highest weight or height allowed by their car safety seat's manufacturer. Most convertible seats have limits that will permit a child to ride rear-facing for 2 years or more. A rear-facing car safety seat should NEVER be placed in front of a passenger air bag. Your child, besides being much safer in a car safety seat, will behave better so you can pay attention to your driving. The safest place for all infants and children to ride is in the back seat.

Do not leave your child alone in a car. Keep vehicles and their trunks locked. Children who are left in a car can die of heat stroke because temperatures can reach deadly levels in minutes.

Remember, the biggest threat to your child's life and health is an injury.

figure:Safety for baby

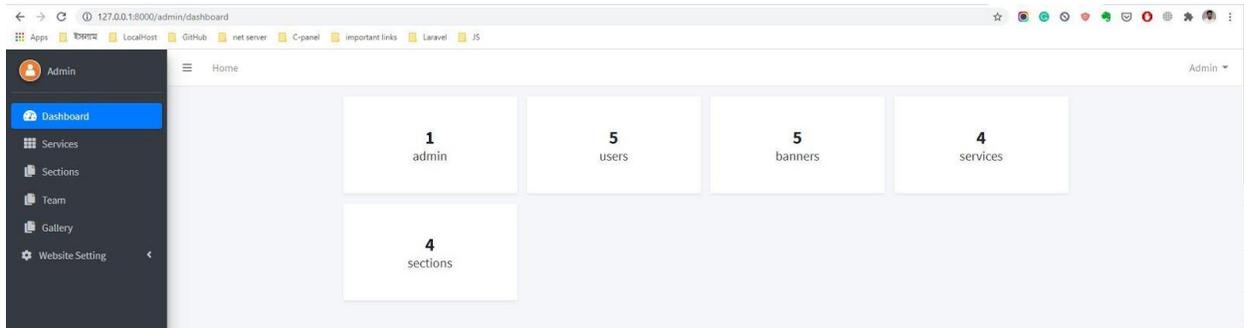


figure:AdminDashboard

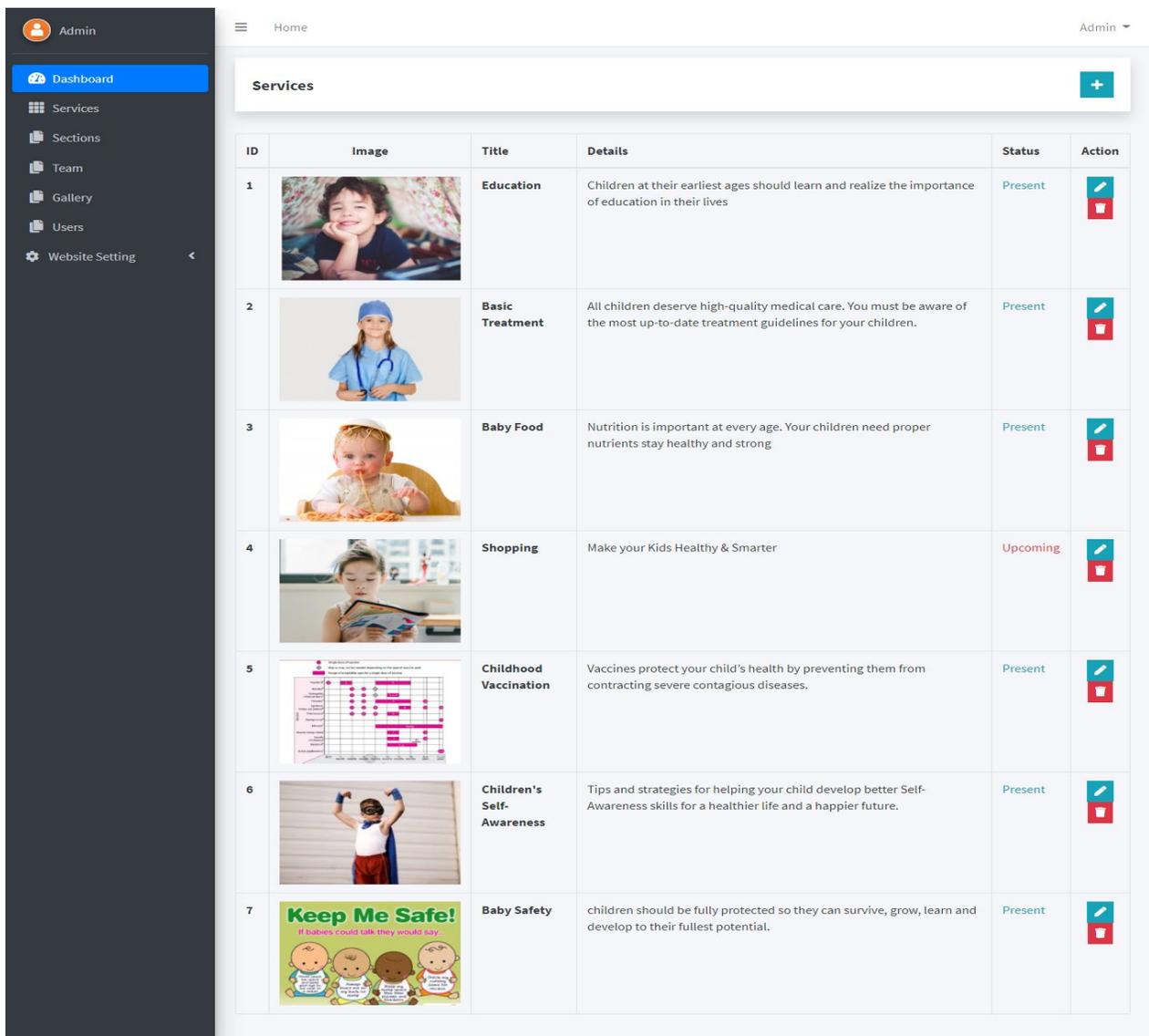


figure:AdminDashboard(Services)

Chapter 5: Project Summary

5.1 GitHub Link

<https://github.com/noman-swe/Nanny>

5.2 Future Scope

The Nanny - Child Development Instructor project has more planning.

5.2.1 Shopping

One of the plans is extending the shopping site. The parents will visit and they can shop for their children. Parents can shop every necessary tool to make the children smarter, to build their children's memory & behave smarter. They also can buy toys, smart toys, clothes, food and many other things even those things which are not available in our country.

5.2.2 Doctor Appointment

We will also add a child specialist doctor whom parents have to request for appointment & can describe the problems of their children. Doctor will ensure the appointment will talk with the parents via video calling & after that he will prescribe for the problems.

5.2.3 Child Vaccination

Immunisation is a simple and effective way of protecting children from serious diseases. It not only helps protect individuals, it also protects the broader community by minimising the spread of disease.

Vaccines work by triggering the immune system to fight against certain diseases. If a vaccinated person comes in contact with these diseases, their immune system is able to respond more effectively, preventing the disease from developing or greatly reducing its severity.

5.2.4 Self-Awareness

Self-Awareness is the thinking skill that focuses on a child's ability to accurately judge their own performance and behavior and to respond appropriately to different social situations.

Self-Awareness helps an individual to tune into their feelings, as well as to the behaviors and feelings of others. For example, a child successfully uses self-awareness skills when they notice they are talking too loudly in a library where other children are trying to work, and then adjusts the volume of their voice to a more considerate level. Self-Awareness is vital both to a child's academic success as well as their social and emotional growth. This thinking skill facilitates a child's ability to accurately judge their own performance and behavior, as well as their ability to appropriately respond to different social situations.

5.2.5 Baby-Safety

Often, injuries happen because parents are not aware of what their children can do. Your child is a fast learner and will suddenly be able to roll over, crawl, sit, and stand. Your child may climb before walking, or walk with support months before you expect. Your child will grasp at almost anything and reach things he or she could not reach before.