



**Tribhuvan University**  
**Faculty of Humanities and Social Science**

## **CHILD EDUCATION SUPPORT (CES)**

### **A PROJECT REPORT**

**Submitted to**  
**Department of Computer Application**  
**Padmashree International College**

*In partial fulfillment of the requirements for the Bachelors in Computer Application*

**Submitted by**

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**●SUPERVISOR'S**  
**RECOMMENDATION**

I hereby recommend that this project prepared under my supervision by **Manish Pathak** and **Pranesh Shrestha** entitled “**Child Education Support**” in partial fulfillment of the requirements for the degree of Bachelor of Computer Application is recommended for the final evaluation.

**SIGNATURE**

.....

**SUPERVISOR**

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**Tribhuvan University**  
**Faculty of Humanities and Social Sciences**  
**Padmashree International College**

**•LETTER OF APPROVAL**

This is to certify that this project prepared by **Manish Pathak** and **Pranesh Shrestha** entitled “**Child Education Support**” in partial fulfillment of the requirements for the degree of Bachelor in Computer Application has been evaluated. In our opinion, it is satisfactory in the scope and quality as a project for the required degree.

<p style="text-align: center;"><b>Basanta Chapagain</b> Project supervisor Bachelors of Computer Application</p>	<p style="text-align: center;"><b>Raj Kumar Koirala</b> Coordinator Bachelors of Computer Application</p>
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## ●ABSTRACT

Child Education Support (CES) system aims to revamp the old paper based system to a web based system. As the old system was messy, bulky, redundant, and difficult and contains lots of errors, the new system aims to eliminate those problems giving the admin and user wider platform to create, update and store beneficiaries and connect the sponsors/donors not only from the Nepal but all around the world.

Major requirement and different aspect of feasibility test was done through field visit and interviews. Depending on the list of requirement and study result an agile model for system development was implemented while developing CES system.

Our developed system of CES was able to meet the requirement of creating, updating and storing beneficiary's information. Also the interested sponsor who has access to the internet was able to connect with the beneficiaries and change their lives by supporting them for the better education.

We concluded that the system will help the organization to find the sponsors for the deserving brilliant students and assist them for their better future. As well as it will be able to add, store, update, retrieve and enhance the information management system ultimately benefitting the current working of the organization.

Keywords: beneficiaries, donors, children,

## ● ACKNOWLEDGEMENT

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In the end, we would also like to thank **Tribhuvan University** for giving us this opportunity via the course of Computer Application to help us understand the project ethics at this early stage and helped us to evaluate my knowledge and expand it a little more.

Our heartfelt thanks.

Sincerely

Manish and Pranesh

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## **LIST OF ABBRIVIATIONS**

CES	Child Education Support
CSS	Cascading Style Sheet
DFD	Data Flow Diagram
E-R	Entity Relationship
GB	Gigabyte
HTML	Hypertext Markup Language
MySQL	My Structured Query Language
PHP	Hypertext Preprocessor
RAM	Random Access Memory
TB	Terabyte
XAMPP	X (cross platform), Apache, MySQL, PHP, Perl.

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## CHAPTER 1: INTRODUCTION

### 1.1 Introduction

Child Education Support was established in 2016 to assist the children of families affected by the 2015 devastating earthquake. Due to the devastating earthquake of 2015 many households lost their family members, houses, jobs, and many opportunities. To assist the children of earthquake-affected families, Child Education Support (CES) was founded. With the objective of “Education for every child” till the date they have supported more than 70 families all over Nepal.

CES has been providing a monthly support fund for the children to pay their tuition fees. As per them, the support amount is not enough for every level of children as they are supporting children from pre-primary level to grade 10 children who are currently studying in different government and private schools. In return, children have to provide them a report thrice a year. The reports that they have to provide to the sponsors are an updated photograph, mark sheet, and letter about their current updates.

With the initial plan to support only the children of earthquake-affected families, CES had the vision to grow their support areas nationwide for all the needy children. In 2020 the worldwide affecting COVID-19 pandemic and almost yearlong lockdown most of the Nepali families were harshly affected. As many families were trying to rise from their

earthquake tragedy the COVID-19 pandemic has shattered their hope. Again many families lost their job, businesses; almost all the children were deprived of the continuation of their education. In response to that, to reach the maximum number of children and families CES has decided to upgrade their paper and post-based sponsoring system to a digital and web-based portal.

With the experience of working for the children affected by earthquakes, CES aims to reach genuine needy children and connect them to eligible national and international sponsors with the help of this newly developed online system. As the request for support applications are piling up on their desk, they are looking forward to enhancing their current work pattern and try to increase the number of supported children with the help of technology.

## **1.2 Problem statement**

Nepal is still a developing country, with a literacy rate of 67.91%. To support increasing the future literacy rate and create an educated population in Nepal, CES has been supporting children for their education. CES has been currently handling the sponsorship program of more than 80 children and their respective sponsors. Currently, they are using a paper and post-based system to recruit, record, transfer, and report in their current work. While doing this, there was a high chance of data redundancy, record missing, tearing and loss of important files and papers, loss of address, and other confidential information. And as they are planning to expand their area and number of supported children, it will be difficult for them to manage the new expansion. To minimize the above-mentioned problems and be prepared for the expansion, the need for CES web-based portals is required.

## **1.3 Objectives**

CES is currently successfully operational due to the relationship between the CES office, children, and sponsors. To keep it that way, CES web-based system plays a vital role. Therefore CES web-based portal has the following as its main objectives:

- To find and reach out to new sponsors
- To record, update, and prepare children data's for new sponsorship
- To process and upload children profiles for sponsor view

## **1.4 Scope and limitation**

### **1.4.1 Scope**

As the CES system is implemented, the CES office can prepare and upload support needed children profiles for viewing of the sponsors. It can store a large number of children's profiles and connect with sponsors. Sponsors can create their “Sponsors Account”, add their details and view the details of the children available for support, choose the children to support, record the history of their sponsorship. Also, many sponsors can access the website simultaneously and be a part of the support program.

### **1.4.2 Limitation**

The limitation of this system is that it cannot create a personal relationship between sponsors and children. As per to keep in human touch and interaction all reports sent to sponsors have to be sent by post. The system also does not assure the 100% chance to get support as the children's profile is uploaded to the system.

## **1.5 Report Organization**

### **Introduction**

This chapter includes the basic information of the client, the client's problem or need of the system. It also contains the objective that the developed system needs to achieve. It also includes the scope and limitations of the system.

### **Background Study and Literature Reviews**

This chapter includes information on the current status of the client system. And as per the research done about the similar types of clients system and its finding are also mentioned here.

### **System Analysis and Design**

In this chapter, the requirement of the system is defined. It includes both functional and non-functional requirements. A summary of feasibility analysis on different aspects like

technical, operational, economic, and schedule is included here. Data modeling, process modeling, DFD are included in this chapter.

### **Implementation and Testing**

Tools used in system development, implementing details, and results of the test performed are included here.

### **Conclusion and Future Recommendations**

A summary of the lesson learned, outcome, and conclusion of this whole project is written here. As well as from the point of view of developer recommendations for the future enhancement are also included here.

## **CHAPTER 2: BACKGROUND STUDY AND LITERATURE REVIEW**

### **2.1 Background Study**

Child Education Support (CES) is the best platform in a developing country like Nepal. This provides a connection platform for the students with potential donors for the better education of the children. As education is the main essence to the bright future of the family, community, and the whole nation CES is helping the nation to for a brighter future.

Before getting into the development of the project we tried to understand the basic available resources and current practice. It helped us very much in planning the road map for the development.

Currently, few organizations are sponsoring the children in their education. We also tried to understand how they are running the sponsorship program and how different it is from CES is studied based on the available resources online.

### **2.2 Literature Review**

A literature review is an account of what has been done before on a topic by accredited scholars and researchers. The purpose of the literature review is to convey to the reader

what knowledge and ideas have been established on the topic, what their strengths and weaknesses are.

Reviewing the literature is to develop some expertise in one's area, to see what new contributions can be made, and to receive some ideas for developing a research design. Further, reviewing the literature facilitates the researcher to explore what research studies have been conducted in one's chosen field of study and what remains to be done. (Wolff and Pant 1999)

### **World Vision International**

A magnitude 7.8 earthquake struck Nepal on April 25, 2015, toppling multi-story buildings in Kathmandu, the capital, and creating landslides and avalanches in the Himalayas Mountains. Nearly 9,000 people died and more than 22,000 suffered injuries. It was the deadliest earthquake in the seismically active region in 81 years.

The quake was followed by hundreds of aftershocks, and only 17 days later, there was another major quake, a magnitude 7.3 temblor. Thirty-nine of the nation's 75 districts with a population of 8 million people — about a third of the national population — were affected. Hundreds of thousands of people lost everything and faced extreme poverty. More than 600,000 homes were destroyed and more than 288,000 were damaged in the 14 worst-hit districts. The quakes' strongest impact was in remote rural areas, making the response extremely challenging. (WorldVision.org, n.d.)

### **How does child sponsorship work?**

World Vision child sponsorship programs focus on improving the physical, emotional, spiritual, and social well-being of the most vulnerable children. Our decades of experience have proven that the most effective way to help a child is to strengthen the child's entire community, caring for every child along the way. In fact, because of these community-focused solutions, for every child, you help, 4 more benefits, too!

### **We partner with communities**

Local staff start by partnering with children, families, and the community. Our aim is to enable children, with their families and communities, to build a better future for themselves.

### **1 Child + 1 Sponsor**

Vulnerable children are nominated by the community for the child sponsorship program. Each child is matched with only one sponsor. This one-to-one connection is a powerful way to share God's love.

### **Your donations go to work**

In 2019, we used 87 percent of our total operating expenses for programs that benefit children, families, and communities. Your monthly sponsorship gift is combined with other donations to invest in long-term resources for your sponsored child and their whole community, as well as other children in need.

### **Celebrate the progress**

Your love, prayers, letters, and donations result in real, lasting change for your sponsored child, their family, and their community. Enjoy sharing the journey and seeing proof that your support is changing children's lives and futures for good. Sponsor a child today! (worldvision.org, n.d.)

### **Volunteer Society Nepal**

Child Sponsorship in Nepal is very much needed. Two-thirds of Nepal's children are severely deprived and 40% live in absolute poverty. This is due to a decade-long civil war and political instability. Children are deprived of their basic right to education due to poverty, underdevelopment, mass illiteracy, and socioeconomic problems. Socioeconomic problems are child labor, girl trafficking, bonded labor, and discrimination against female children. Many families lack sufficient resources, both physical and social, making their children more vulnerable to illiteracy and poverty.

### **Major indicators**

- 33% of children live below the poverty line.
- 40% of children are deprived of 2 out of 7 basic human needs eg. Sanitation, information, shelter, water, food, education, and health.
- 7% of children defecate in open spaces.
- 41% of rural children are underweight and 51% stunted growth through malnutrition.
- The under-5 mortality rate is 65/1000 live births.
- The infant mortality rate is 51/1000 live births.

Volunteer Society Nepal dedicates itself to social development through supporting the family unit by providing social service resources and financial/material assistance, enabling the children to access their basic right of education.

### **Why Child Sponsorship Nepal?**

Your sponsorship will directly enable children to take advantage of alternative opportunities and break the cycle of oppression. Sponsoring a child from Nepal is a rewarding and heart-full experience. The sponsorship gives each child the chance to get the maximum level of school education that is available in Nepal. This gives them a better grounding in English and the main subjects required for college and further education. It is a real chance to make their future brighter.

### **Why sponsor through education?**

Education is the main priority to create long-term options for the future of the children. This sponsorship gives you the opportunity to really experience the difference you can make by helping one person. To have a life opportunity they would not otherwise have. It also gives the child the chance to have a friend who cares about their future and well-being. Imagine how it can feel to have someone thinking about you and your welfare; even if they are far away.

### **General Sponsorship**

This category of sponsorship provides the opportunity to a child within the family network, to study full-time in a private school (the school year starts in April), and provides support for expenses such as tuition fees, educational materials, examination materials, etc. These expenses are out of reach for many families in Nepal. Volunteer Society Nepal provides support for the child and their family, by means of parental support groups and a social worker, who will regularly visit both the school and the home. Your commitment will provide this for one of these children. We request a minimum of a three-year commitment, to encourage a stable environment for the family.

### **How much does it cost to sponsor a child from Nepal?**

It costs 500 euros per year to sponsor a child in a private school. (volunteersocietynepal.org, n.d.)

After the completion of our literature review, we found out that the world vision is mainly focused on group assistant programs and their sponsorship program is slightly different than ours and doesn't store the information individually but store as a bunch of information.



And volunteers society Nepal is just expanding their areas to the sponsorship therefore they do not have an extended information system as ours.

## **CHAPTER 3: SYSTEM ANALYSIS AND DESIGN**

### **3.1 System analysis**

A series of studies and interviews were conducted to understand the current practice of the organization. The CES admin is currently using a paper, files-based system. They have been using records files and registers for storing children and sponsors, tracking the fund in and out. Due to a file-based recording system, they admitted to having some human errors. Recently they have purchased the computer and started to use Microsoft Excel to store data. Since the number of beneficiaries is less they have somehow managed to keep the current record updated. They have separate forms for children to fill up while requesting support. And the form then again checked for its originality and prepared a child profile according to the form filled. The filled form is then sent to the sponsors and when the sponsors choose to support the child then the child will receive support monthly. The enrolled children then send reports to the sponsors which are sent to sponsors via post. As they are now planning to expand the number of children we collected their requirements for the new system.

#### **3.1.1 Requirement analysis:**

As per the interview and studies we have discovered the following requirements:

##### **i. Functional requirement:**

**Table 3.1 User requirement**

<b>User requirement:</b>	
<b>SN</b>	<b>Requirements</b>
UR 1	Any visitor could see our current work and can log in as a sponsor to support a child
UR 2	Sponsors must be able to log in
UR 3	After log in the sponsor must be able to view the children profile who is available for sponsorship
UR 4	After the sponsor choose to support a child, he can see the details of the children in their dashboard

**Table 3.2 Admin Requirements**

<b>Admin requirement:</b>	
<b>SN</b>	<b>Requirements</b>
AR 1	Admin should be able to log in to the database
AR 2	Admin must be able to fill, upload, and store child information as a profile in the system
AR 3	Admin can add or remove users, upload, edit, delete child profile child profile

**ii. Non-functional requirement:**

- **User Friendly:** User Friendly is self-explanatory. When something is user-friendly then it is easy to access and work with it. The Child Education Support system is user-friendly. People having basic knowledge and skills of computers can also easily use the web application.
- **Simple and easy to use:** Child Education Support system uses a simple design as well as simple language on the content to improve the user-friendliness of the web application. Child Education Support system is a web application. It can be accessed anytime from anywhere with the help of an internet connection.

**3.1.2 Feasibility study:**

To achieve the above-mentioned requirements, again a series of studies were conducted to understand the feasibility of the system in different aspects. The study was done under various headings.

### i. Technical feasibility

We run studies to figure out if the organization has all the necessary technical infrastructure required for running the new system. As per our study, we found out they have an assembled desktop with Intel i7 3rd gen processor, 4 GB RAM, and 1 TB hard drive. They also had a Dell Inspiron 15, 5000 series laptop with an i7 8th generation processor, 8 GB RAM, and a 1 TB hard drive. They have a good internet connection and source of electricity which can run our system smoothly. Therefore, we planned to use the desktop as the server.

## ii. Operational feasibility

During this study, we tried to find out if they had the required manpower to operate the new system. From our study, we found out that they have appointed a staff to look after this new system. He already had a basic knowledge of computers, email, and the internet. Therefore with the user manual and short demonstration he should be able to run the system as intended.

### iii. Economic feasibility

We tried to find out if this new system is cost-effective or not for the organization. As this system is a one-time cost for a long-term project. Therefore we found the new system is cost-effective compared to the old approach which can also lead to data loss and wrong records. We also completed our work on the agreed price with a yearly maintenance cost.

#### iv. Schedule feasibility

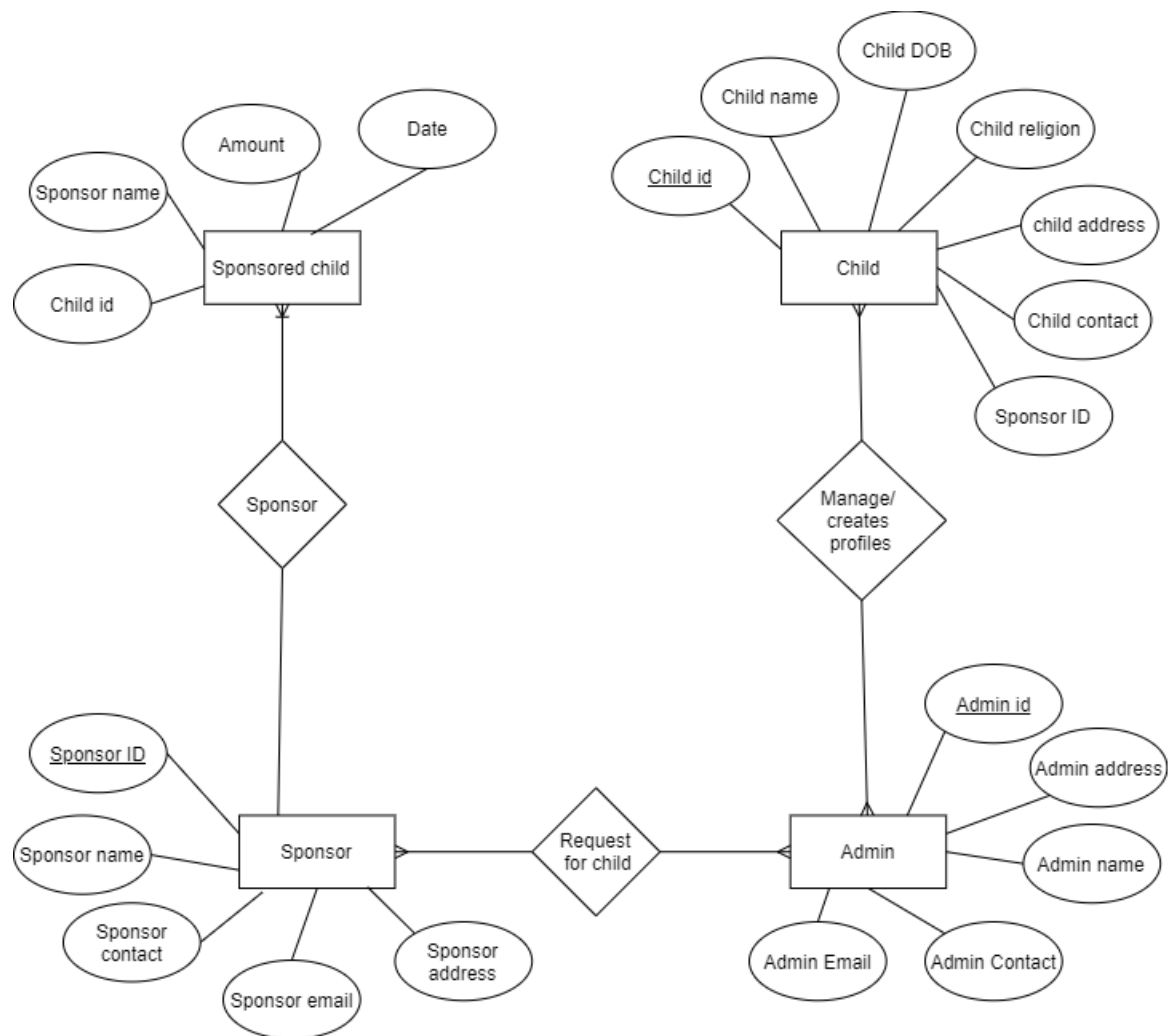
This is one of the most important feasibility analyses as it helps an organization to estimate how much time the organization will take to complete the project and how much of it is on track to a given schedule.

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**Figure 3.1 Gantt chart**

### 3.1.3 Data modeling

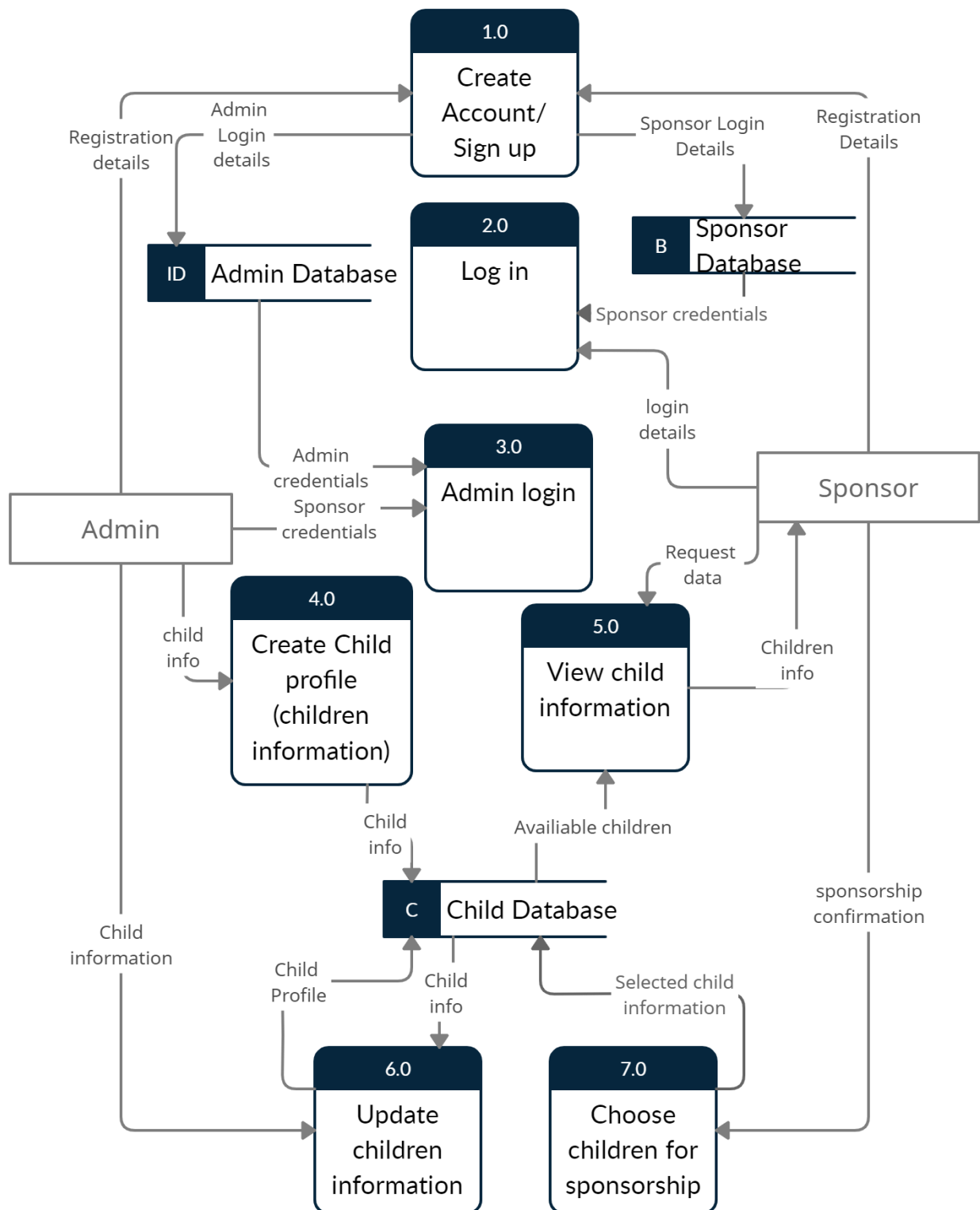
A data model is a mechanism that provides this abstraction for the database application. Data modeling is used for representing entities and their relationship in the database. E-R (Entity Relationship) Model can be referred to as a Data Model. E-R Model is a popular high-level conceptual data model. This model and its variations are frequently used for the conceptual design of database applications and many database design tools employ its concept.



**Figure 3.2 ER diagram**



### 3.1.4 Process modeling



**Figure 3.3 Process diagram**

**Figure 3.4 Process Table**

<b>Process ID</b>	<b>Process name</b>	<b>Description</b>	<b>Addressed requirements</b>
1.0	Create Account / Sign up	The admin and sponsor account is created.	UR 1, AR 1
2.0	Sponsor log in	The sponsor will be able to log in.	UR 2
3.0	Admin log in	The admin will be able to log in	AR 1
4.0	Create Child profile (children information)	Admin can add/ create child's profile	AR 2
5.0	View Child information	Information about children is posted into the user interface. The sponsor should create an account first and log in to view detail about the child in the sponsor dashboard	UR 3, UR 4
6.0	Update children information	If any child get to sponsor, then the child information is updated	AR 3
7.0	Choose children for sponsorship	After log in the sponsor can choose a children they want to sponsor from their dashboard	UR 3

### **3.2 System design**

System Architecture is a framework that incorporates the interactions and relationships between application components such as databases, middleware systems, and user interfaces. The common concept of System Architecture of Web Application is in line with the idea of a browser user who triggers an application that is capable of running on multiple websites. The components of the Child Education Support system can be grouped as

User interface components User interface application components are not relevant to the structural development of the application and are more user experience/ interface oriented. They refer to web pages displaying dashboards, logs, notifications, profiles, and more.

Structural components:

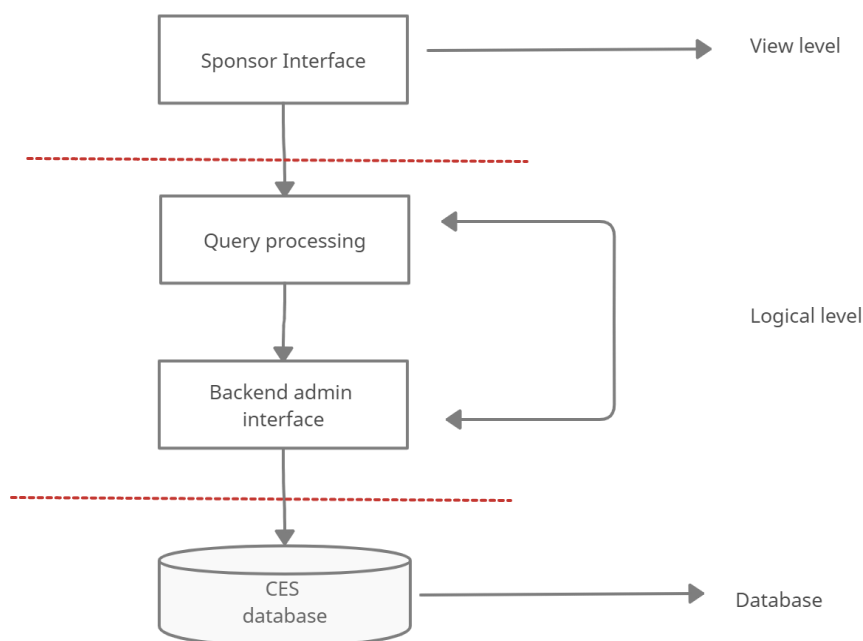
Client tier: The web browser or client is the interface interpretation of a web app functionality with which the user interacts. Content delivered to the client is developed using HTML, JavaScript, and CSS. In general, the web browser or client manages how end-users interact with the application.

Web tier: The web application server manages business logic and data persistence and is built using PHP. It comprises a centralized hub to support multi-layer applications. XAMPP is used which is completely free, easy to install Apache distribution containing PHP.

Database tier: The database server provides and stores relevant data for the application. Furthermore, it may also supply the business logic and other information that is managed by the web application server

### 3.2.1 System Architecture

System design is one of the important phases of the system development life cycle. The following designs and diagrams have been developed and thoroughly reviewed by the team members.

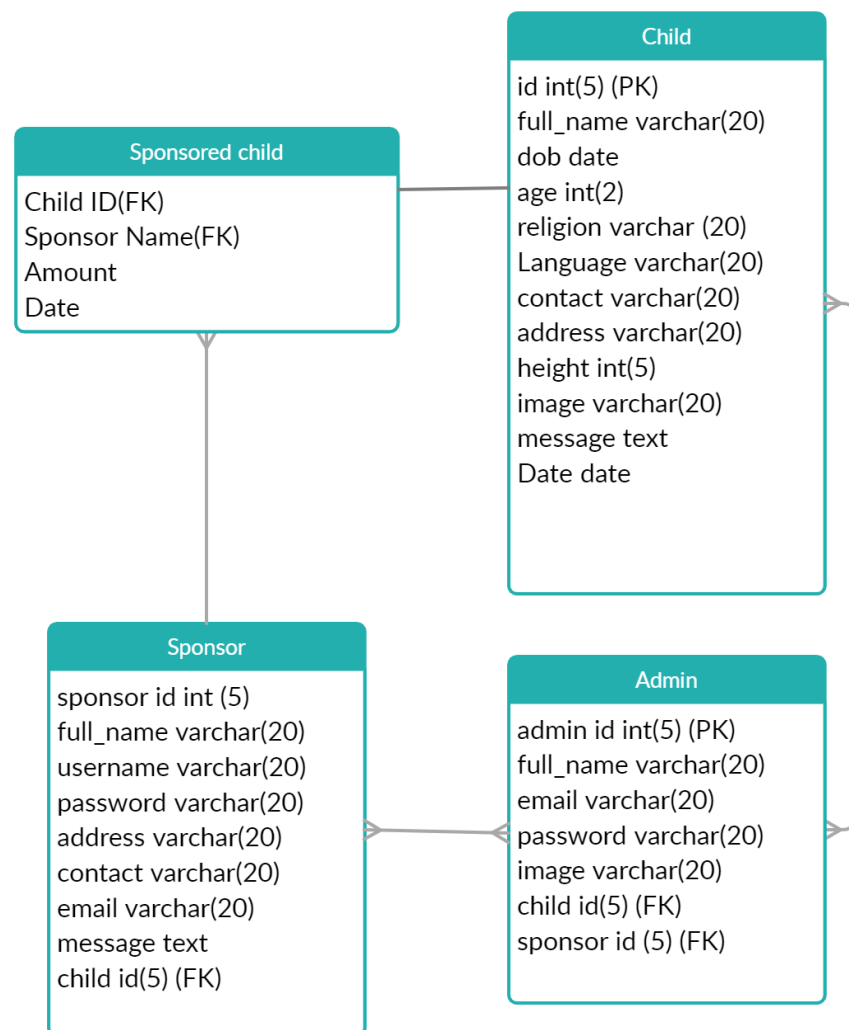


**Figure 3.5 System architecture**



- View level: In view level the sponsor can view the website. In this layer, the sponsor can view the information of the child as well as his information store in the database. Sponsor the child option is viewable to the sponsor in this layer.
- Logical layer: This layer is focused on managing the sponsor and child in the back end. The admin can create the child detail as well as sponsor amount detail in this layer.
- Store database: In this layer, all the information about the child, sponsor, admin, and all the information of the website is stored and maintained in proper order.

### 3.2.2 Database schema design



**Figure 3.6 Database Schema**

- An organization has one-to-many relations with users.it means in the organization we have several users (Admin).
- Users (Admin) can create child Id and Users Id both.
- Users can also monitor the sponsors. If the sponsor wants to sponsor the child then he can inform whether he/she can sponsor the particular child or not
- Sponsors can sponsor many children.
- A sponsor can directly contact the organization if an inquiry about the child.

#### Data dictionary

Field name	Datatype	Allow null	Primary key	Foreign key
uId	Int	NO	YES	NO
First_name	Varchar	NO	NO	NO
Middle_name	Varchar	YES	NO	NO
Last_name	Varchar	NO	NO	NO
Email	Varchar	NO	NO	NO
Password	Varchar	NO	NO	NO
Mobile	Varchar	NO	NO	NO
Date	Date	NO	NO	NO
Sid	Int	NO	NO	YES
cid	Int	NO	NO	YES

**Table 3.3 Admin table**

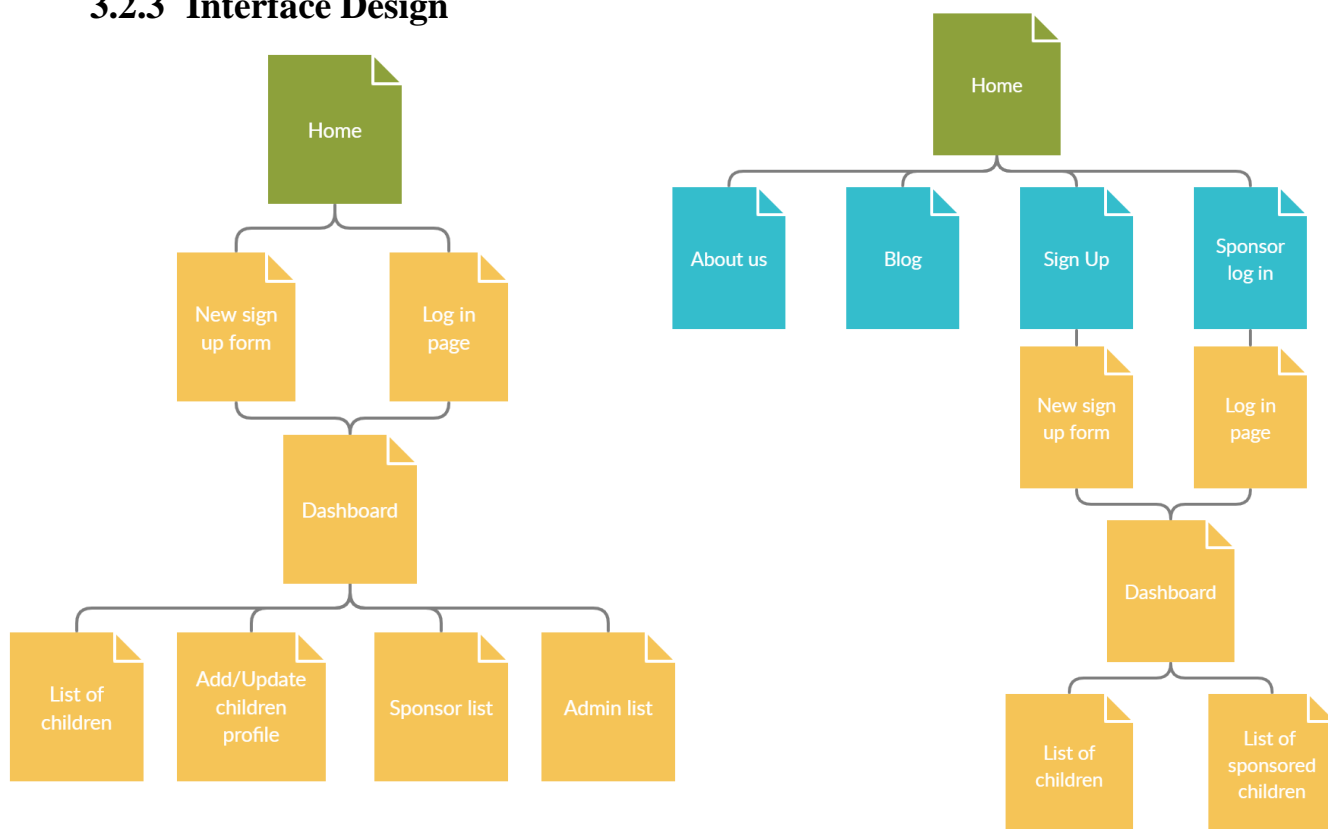
**Table 3.4 Sponsor table**

Field name	Datatype	Allow null	Primary key	Foreign key
sId	Int	NO	YES	NO
Full_name	varchar	NO	NO	NO
Username	Varchar	NO	NO	NO
Password	Varchar	NO	NO	NO
Address	Varchar	NO	NO	NO
Contact	Varchar	NO	NO	NO
Email	Varchar	NO	NO	NO
Message	Varchar	NO	NO	NO
Image	Varchar	NO	NO	NO
cid	Int	NO	NO	YES

**Table 3.5 Child table**

Field name	Data type	Allow null	Primary key	Foreign key
cId	Int	NO	YES	NO
Full_name	Varchar	NO	NO	NO
DOB	Date	NO	NO	NO
Age	Int	NO	NO	NO
Religion	Varchar	NO	NO	NO
Language	Varchar	NO	NO	NO
Conatact	Varchar	NO	NO	NO
Address	Varchar	NO	NO	NO
Height	Varchar	NO	NO	NO
Image	Varchar	NO	NO	NO
Details	Varchar	NO	NO	NO
Date	Date	NO	NO	NO

### 3.2.3 Interface Design



**Figure 3.3.1 Interface Design**

### 3.2.4 Physical DFD

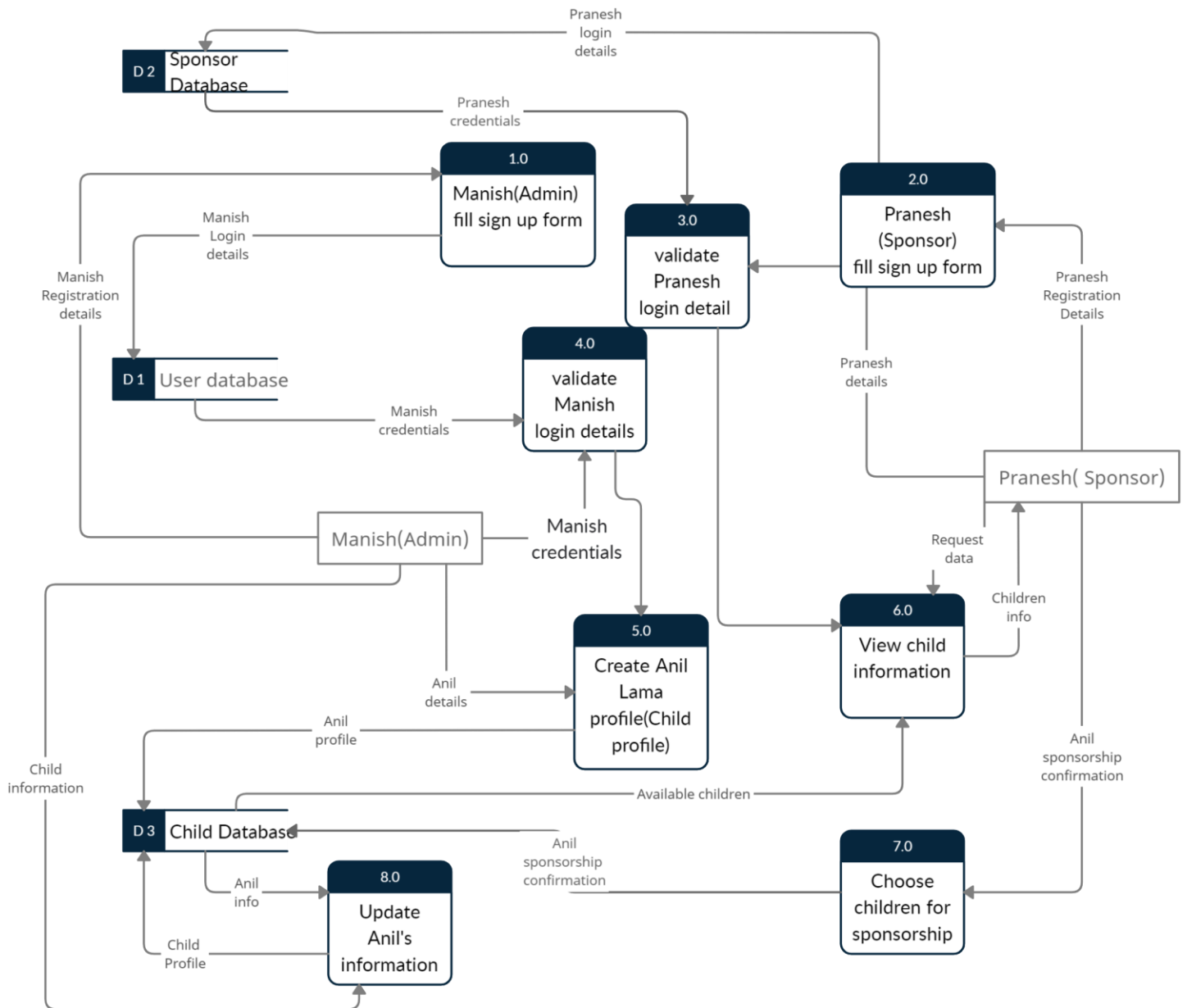


Figure 3.9 Physical DFD

# **CHAPTER 4: IMPLEMENTATION AND TESTING**

## **4.1 Implementation**

### **4.1.1 Tools used**

#### **Front End Tools**

- HTML: HTML is used to design the frontend views of this system.
- CSS: CSS is used for describing the presentation of the front page including colors, layout, and fonts of the system.
- JavaScript: JavaScript web framework is one of the best ways to stack backend and front-end frameworks and has been used for the same in the project

#### **Back End Tool**

- PHP: The PHP Hypertext Preprocessor (PHP) is a programming language used to create dynamic content that interacts with databases. It has helped to send and get requests and data from and to databases like MySQL in the project and is used for developing web-based software applications.
- MYSQL: MySQL is an open-source relational database management system (RDBMS). We have used MySQL to store and retrieve data.

#### **CASE tools**

- Draw.io
- Creately
- Adobe Photoshop
- Microsoft PowerPoint
- Microsoft word

### **4.1.2 Implementation Details of modules**

#### **Installation**

The purpose of the implementation is to build a properly working system and present it to the user. It is transferring the system from the development site to the client-side. The installation of the system is installed on the servers specified on the requirements. Server

Operating System with Web Server is installed to host the web application. A dedicated Database Server (MySQL Server) is installed to store the children and sponsor database.

### **Training**

After completion of the installation of the system and required components on the client's devices, a designated personal declared by the organization was trained to operate, upload, update, delete the profiles, and other necessary tasks.

### **Documentation**

During all the phases of the system development life cycle, every document is developed such as analysis, design, etc., and has been properly documented.

## **4.2 Testing**

Testing is the process of detecting errors. It performs a very critical role for quality assurance and for ensuring the reliability of software. The results of testing are used later on during maintenance also. Also to guarantee error-free system handover some tests were done. Depending on the result of the output and thoroughly check of the fulfillment of both functional and non-functional requirements the system was installed in the client's device.

### **4.2.1 Test cases for Unit Testing**

Unit testing is a software development process in which the smallest testable parts of an application, called units, are individually and independently scrutinized for proper operation. Child Education Support contains different types of individual parts that are tested. Some of the test cases are:

**Table 4.1 Unit testing**

<b>S. N</b>	<b>Action</b>	<b>Input</b>	<b>Expected Outcomes</b>	<b>Actual Outcomes</b>	<b>Test Result</b>
1	Lunch page	ces.local/admin/user/child.php	Registration page	Registration page	Pass
2	Submit without any detail	Null	Each filled is required	Each filled is required	Pass
3	Submit by filling in name, religion, language, address filled with less than 5 character	Full name :gop Religion:hin Language:tama Address:nep	Name must contain 5 character	Please enter at least 5 character	Pass
4	Submit without DOB and age	DOB: Age:	DOB and age is required	This filled are required	Pass

5	Message less than 5 character	Message: hi	Message must contain 5 character	This filled required at least 5 character	Pass
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**Table 4.2 Child list page**

<u>Child list page</u>					
S. N	Action	Input	Expected Outcomes	Actual Outcomes	Test Result
1	Launch application	ces.local/admin/child/childlist.php	Child list	Child list	Pass
2	Delete the child list	ces.local/admin/child/childdelete.php	Delete the child from list	Delete the child from list	Pass
3	Update the child list	ces.local/admin/child/childedit.php	Edit page appear	Edit page appear	Pass

<u>Admin list page</u>					
S. N	Action	Input	Expected Outcomes	Actual Outcomes	Test Result
1	Launch application	ces.local/admin/user/list.php	user list	user list	Pass
2	Delete the child list	ces.local/admin/user/delete.php	Delete the user from list	Delete the user from list	Pass
3	Update the child list	ces.local/admin/user/edit.php	Edit page appear	Edit page appear	Pass

**Table 4.3 Admin list page**

**Table 4.4 Sponsor list page**

<u>Sponsor list page</u>					
S. N	Action	Input	Expected Outcomes	Actual Outcomes	Test Result
1	Launch application	ces.local/admin/sponsor/sponsorlist.php	sponsor list	sponsor list	Pass
2	Delete the child list	ces.local/admin/sponsor/sponsorddelete.php	Delete the sponsor from list	Delete the sponsor from list	Pass

#### 4.2.2 Test Cases for System Testing

System testing is the overall testing of the system after integrating all the functions of the project. When all the functions of the Child Education Support are integrated then system testing is done.

**Table 4.5 Sponsor Registration**

<b><u>Sponsor Registration</u></b>					
<b>S. N</b>	<b>Action</b>	<b>Input</b>	<b>Expected Outcomes</b>	<b>Actual Outcomes</b>	<b>Test Result</b>
1	Launch application	ces.local/frontend/home.php	Home page	Home page	Pass
2	Sign form	ces.local/frontend/signin.php	Registration page	Registration page	Pass
3	Submit without any details	NULL	Form must be filled	This filled is required	Pass
4	Enter number in name filled	Full name:12345 username: manish123 Email:manish@gmail.com password: 1234567890 confirm password:1234567890 Address:gongabu Contact:9854321231 Image:abc.jpg Description: Hi I want to donate	Invalid name format	Name must contain characters only	Pass
5	Enter character less than 5 digit in name filled	Full name:man username: manish123 Email:manish@gmail.com password: 1234567890 confirm password:1234567890 Address:gongabu Contact:9854321231 Image:abc.jpg Description: Hi I want to donate	5 character is required	Please enter atleast 5 character	Pass
6	Username contain alphabet only	Full name:manish username: manish Email:manish@gmail.com password: 1234567890 confirm password:1234567890 Address:gongabu Contact:9854321231 Image:abc.jpg Description: Hi I want to donate	Username contain alphabet and number both	Username must contain alphabet and number	Pass
7	Email without @	Full name:manish username: manish123 Email:manishgmail.com password: 1234567890 confirm password:1234567890 Address:gongabu	Invalid email	Invalid email	Pass



		Contact:9854321231 Image:abc.jpg Description: Hi I want to donate			
8	Password and confirm password is must be match	Full name:manish username: manish123 Email:manish@gmail.com password: 1234567890 confirm password:12345678 Address:gongabu Contact:9854321231 Image:abc.jpg Description: Hi I want to donate	Password must be match	Password must be match	Pass
9	Contact contain 10 digit	Full name:manish username: manish Email:manish@gmail.com password: 1234567890 confirm password:1234567890 Address:gongabu Contact:9854321231 Image:abc.jpg Description: Hi I want to donate	Invalid contact	Invalid contact	Pass
10	Description must contain 5 letter	Description: hi	Message must be greater than 5 digit	Please enter at least 5 digit	Pass

**Table 4.6 Sponsor login**

<b><u>Sponsor login</u></b>					
S. N	Action	Input	Expected Outcomes	Actual Outcomes	Test Result
1	Lunch page	Ces.local/frontend/login.php	Login page	Login page	Pass
2	Enter email and password	Email: <u>manish@gmail.com</u> Password:1234567890	Login successful	Login successful and enter into sponsor dashboard	Pass
3	Enter username and password	Username:manish123 Password:1234567890	Login successful	Login successful and enter into sponsor dashboard	Pass
4	Enter wrong email and password	Email:manish@yahoo.com Password:1234567890	Invalid email and password	Invalid credential	Pass

5	Enter wrong username and password	Username:manish123 Password:1234567890	Invalid username and password	Invalid credential	Pass
---	-----------------------------------	---	-------------------------------	--------------------	------

<b><u>Admin Registration</u></b>					
S. N	Action	Input	Expected Outcomes	Actual Outcomes	Test Result
1	Lunch page	ces.local/admin/user/create.php	Registration page	Registration page	Pass
2	Submit without any detail	Null	Each filled is required	Each filled is required	Pass
3	Submit by filling name filled with less than 5 character	First name :man Middle name : Last name : path Email:manish@gmail.com Password:1234567890 Confirm password:1234567890 Contact:9876543212	Name must contain 5 character	Please enter at least 5 character	Pass
4	Submit by enter wrong email	Email:manish@yahoo.com	Please enter correct email	Invalid email	Pass
5	Submit by enter password less than 5 character	Password:1234	Password must contain 5 character	Please enter at least 5 character	Pass
<b><u>Admin login Registration</u></b>					
S. N	Action	Input	Expected Outcomes	Actual Outcomes	Test Result
1	Lunch page	ces.local/admin/login.php	Login page	Login page	Pass
2	Submit without enter any filled	NULL	Invalid credential	Invalid credential	Pass
3	Enter email and password	Email: <u>manish@gmail.com</u> Password:1234567890	Login successful	Login successful and enter into users dashboard	Pass
4	Enter wrong email and password	Email:manish@yahoo.com Password:1234567890	Invalid email and password	Invalid credential	Pass

**Table 4.7 Admin registration and login**

## **CHAPTER 5: CONCLUSION**

### **5.1 Lesson learnt / Outcome**

CES is a good initiation in Nepali society. It helps to connect people for better cooperation and support. We are very grateful to the CES organization for choosing us to upgrade their system. As this was our first project we learned technical skills as well as management skills since we had to finish it within a limited timeframe, budget, and manpower.

Although the system has met the requirement of the client there are still more areas that can be added and upgraded to make it more efficient and convenient in the upcoming days.

### **5.2 Conclusion**

The project "Child education support" was started to upgrade the working practice of the organization from a hardcopy base to a digital web-based platform. The main function of this system is to ease the working of the organization and organize, update, store, retrieve and report the necessary data and information for the future and in a convenient way. It also helps the organization on wasting unnecessary time doing manual work for keeping and retrieving the records. It may be unusual for the first few times but it will be a much necessary system as the client gets used to it. While this system development there were many instances where we all felt like something more could be added but due to the lack of many elements, it will be updated and upgraded as they get used to this system in the upcoming days.

By doing this project, we have been familiarized with practical knowledge of how web applications are designed and developed. The essence of teamwork for the completion of the project has been realized and we have been built up with confidence regarding system analysis, designing, implementations, debugging, testing, and maintenance.

### **5.3 Future recommendation**

This system is the best tool for the client's current workflow process. But as the entire world is evolving, there are still many areas that need to be updated in the future. Some of the major recommendations are:

- Adding online bank transfer
- Tracking the sponsorship timeline by the admin/sponsor
- Strictly follow child protection policy implemented by the Government of Nepal
- Validate the sponsor by admin and assure the genuineness of the sponsor

## **CHAPTER 6: REFERENCES**

- [1] volunteersocietynepal.org, "child sponsorship nepal," [Online]. Available:  
<https://www.volunteersocietynepal.org/our-impact/child-sponsorship-nepal/>.  
[Accessed 9 July 2021].
- [2] worldvision.org, "sponsor a child," [Online]. Available:  
<https://www.worldvision.org/sponsor-a-child>. [Accessed 9 July 2021].
- [3] WorldVision.org, [Online]. Available: <https://www.worldvision.org/disaster-relief-news-stories/2015-nepal-earthquake-facts>. [Accessed 10 July 2021].
- [4] Wolff and Pant, "The literature review in research," 1999. [Online]. Available:  
[www.sagepub.com/upm-data/28728\\_LitReview\\_\\_\\_hart\\_chapter\\_1.pdf](http://www.sagepub.com/upm-data/28728_LitReview___hart_chapter_1.pdf). [Accessed 8 July 2021].

## ● APPENDIX

### Database overviews

#### Users Database

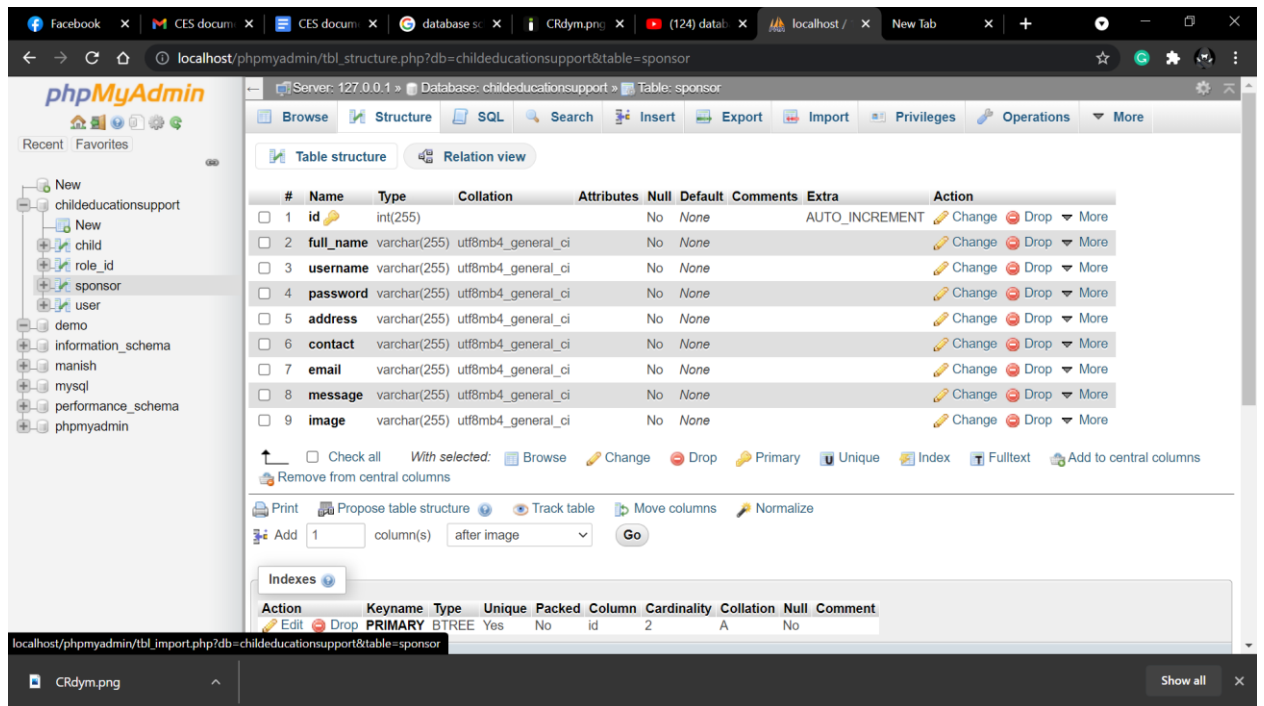
The screenshot shows the phpMyAdmin interface. The left sidebar displays the database structure, including 'childeducationsupport' and its tables: 'child', 'role\_id', 'sponsor', 'user', 'demo', 'information\_schema', 'manish', 'mysql', 'performance\_schema', and 'phpmyadmin'. The main panel shows the 'Table structure' view for the 'user' table. The table has 9 columns: 'id' (int(255), PRIMARY, AUTO\_INCREMENT), 'first\_name' (varchar(255), utf8mb4\_general\_ci), 'middle\_name' (varchar(255), utf8mb4\_general\_ci), 'last\_name' (varchar(255), utf8mb4\_general\_ci), 'email' (varchar(255), utf8mb4\_general\_ci), 'password' (varchar(255), utf8mb4\_general\_ci), 'mobile' (varchar(255), utf8mb4\_general\_ci), 'image' (varchar(255), utf8mb4\_general\_ci), and 'date' (date, NULL). Below the table structure, there are options to 'Check all', 'With selected', 'Browse', 'Change', 'Drop', 'Primary', 'Unique', 'Index', 'Fulltext', and 'Add to central columns'. The 'Indexes' section shows a PRIMARY index on the 'id' column.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(255)			No	None		AUTO_INCREMENT	Change Drop More
2	first_name	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
3	middle_name	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
4	last_name	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
5	email	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
6	password	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
7	mobile	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
8	image	varchar(255)	utf8mb4_general_ci		No	None			Change Drop More
9	date	date			Yes	NULL			Change Drop More

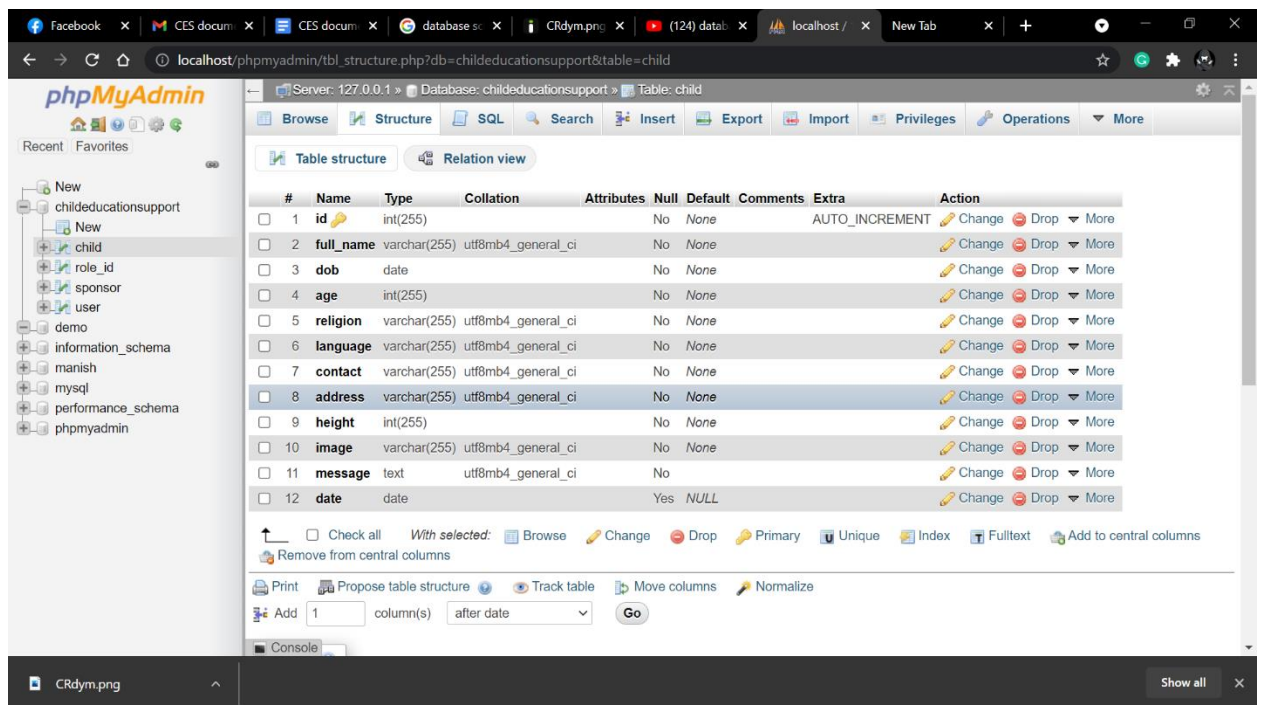
Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Drop	PRIMARY	BTREE	Yes	No	id	2	A	No	

#### Sponsor Database

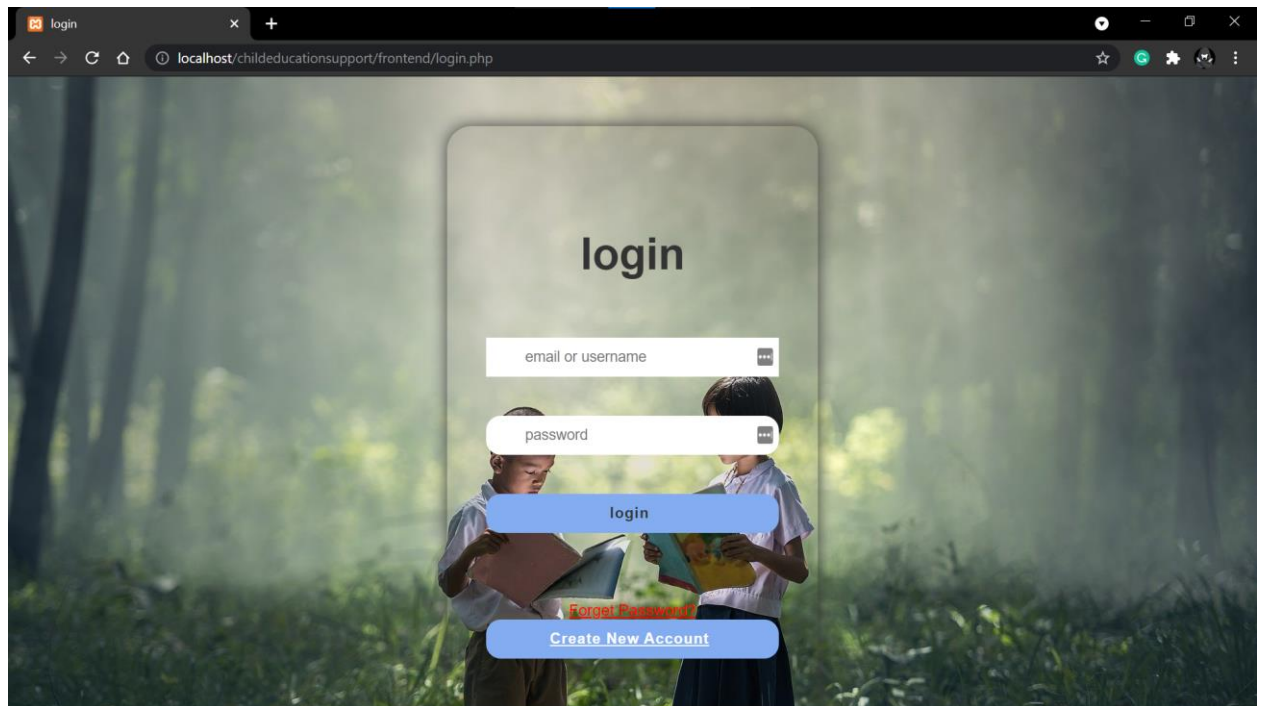


## Child Database

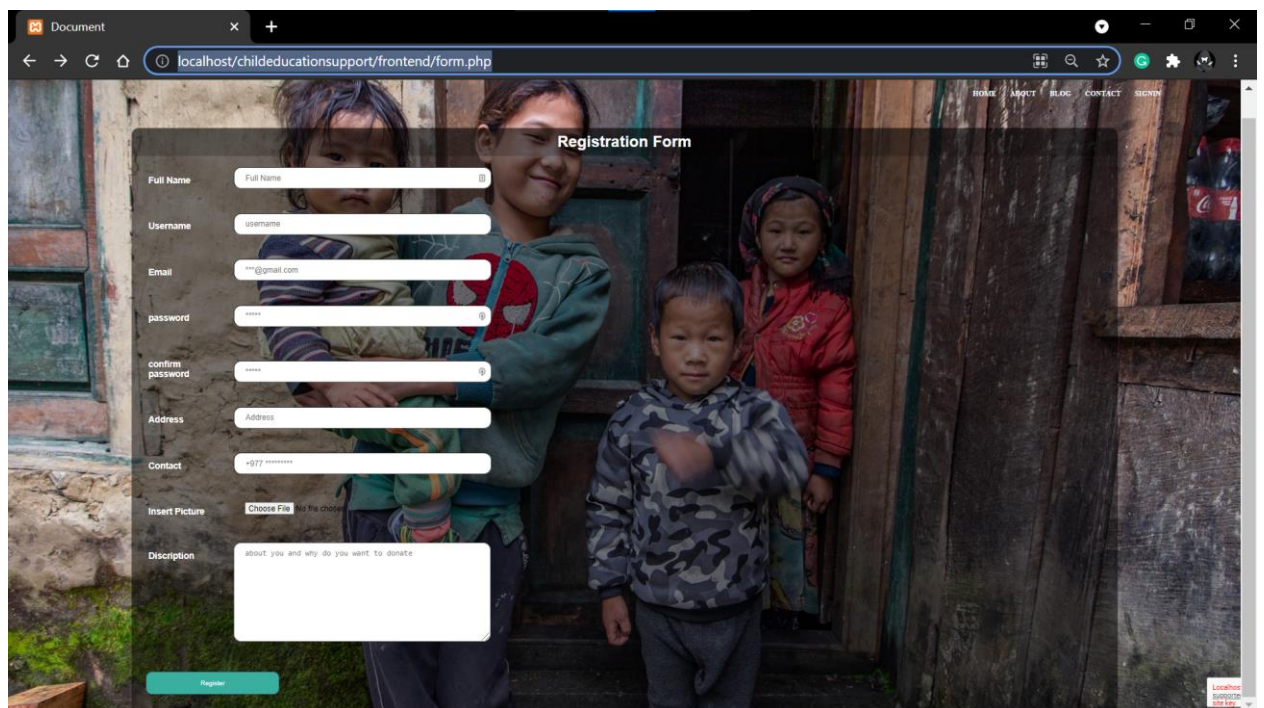


## Frontend overview

### Login page

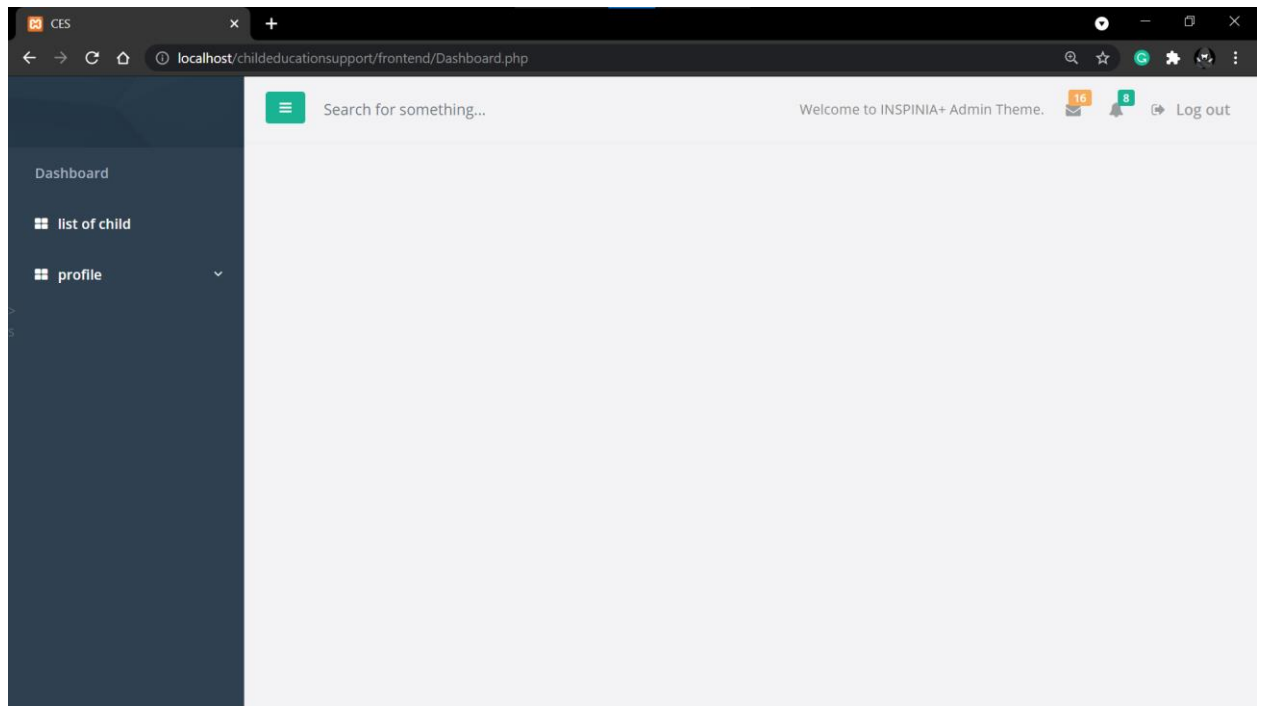


## Create a new account page

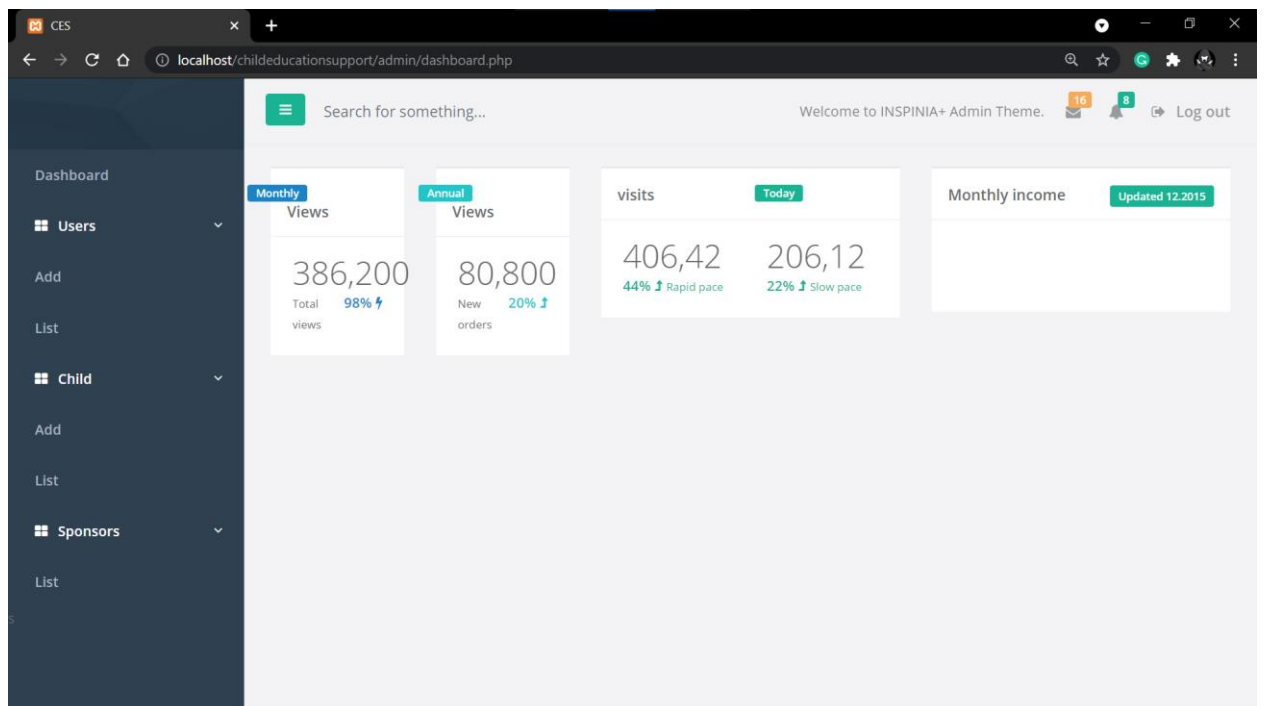


## Front end Dashboard





## Back end Dashboard



## Users Add

Admin Form

First Name

Middle Name

Last Name

Email

password

Confirm password

Contact Number

Image  No file chosen

## Users list

Users List Table

Users updated Successfully

#	First Name	Middle Name	Last Name	Email	Contact Number	Image	Action
1	Manish		Pathak	maanish@gmail.com	12345		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
2	p		shrestha	pranish@gmail.com	1234567890		<input type="button" value="Edit"/> <input type="button" value="Delete"/>
3	ramesh		thapa	ramesh@dfdd.com	1234567894		<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Copyright Example Company © 2014-2018 10GB of 250GB Free.

## Edit users page

**Users Form**

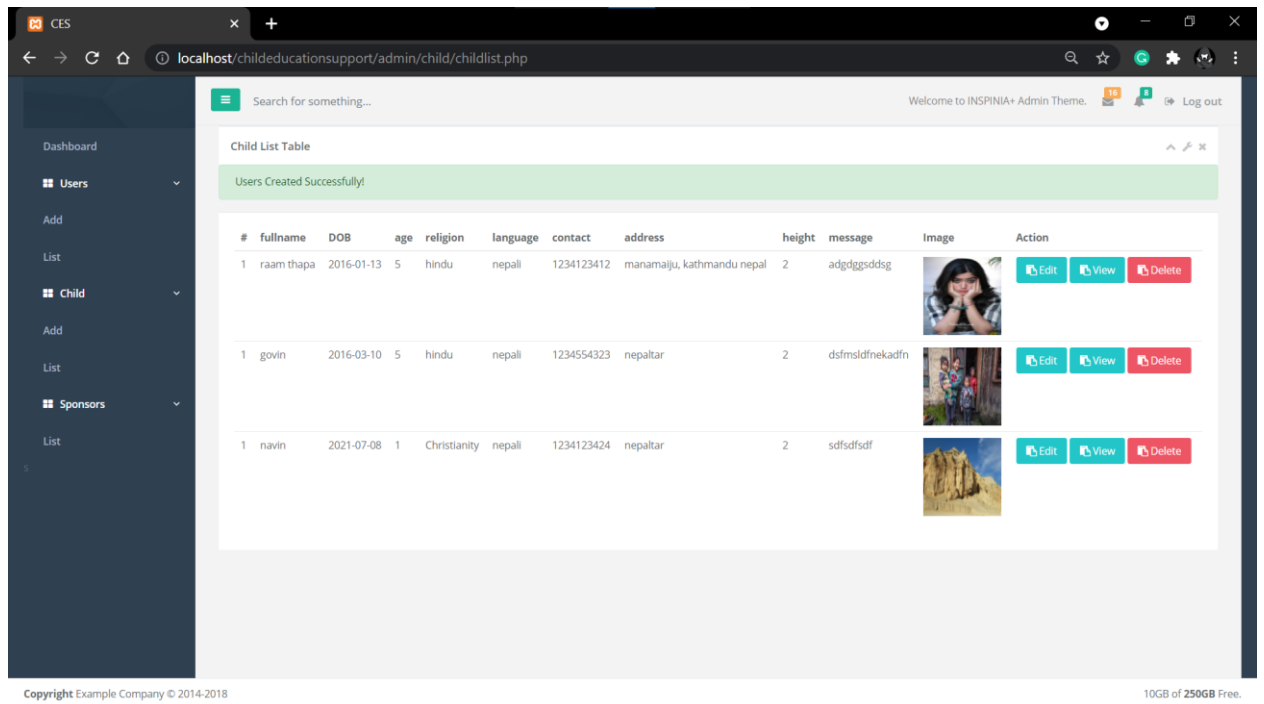
First Name	Manish	
Middle Name		
Last Name	Pathak	
Email	maanish@gmail.com	
password		
confirm password		
Contact Number	12345	
Image	<input type="button" value="Choose File"/> No file chosen	

## Child page

**Child Form**

Full Name		
Date of Birth	dd/mm/yyyy	
age		
religion		
language		
contact		
address		
Height		
Image	<input type="button" value="Choose File"/> No file chosen	
message	<div></div>	

## Child list page



## Edit page

The screenshot shows the "child Form" edit page in the admin interface. The browser address bar indicates the URL is `localhost/childeducationsupport/admin/child/childedit.php?id=3`. The form contains fields for: Full Name (raam thapa), Date of Birth (13/01/2016), age (5), religion (hindu), language (nepali), contact (1234123412), address (manamaiju, kathmandu nepal), Height (2), Image (Choose File, No file chosen), and message (adgdggsddsg). At the bottom, there are "Cancel" and "Save changes" buttons.

## Sponsor list page

CES

localhost/childeducationsupport/admin/sponsor/sponsorlist.php

Welcome to INSPINIA+ Admin Theme. Log out

Dashboard

Users

Add

List

Child

Add

List

Sponsors

List

Child List Table

#	fullname	username	email	password	address	contact	description	image	
0	Manish Pathak	Manish123	Manish123@gmail.com	827ccb0eea8a706c4c34a16891f84e7b	manamajju, kathmandu nepal	1234565431	i want to sponsor on of the student.	1625724284-4.jpg.jpg	<div>EditDelete</div>
1	anil nhemhafari	anil123	anil123@gmail.com	827ccb0eea8a706c4c34a16891f84e7b	manamajju, kathmandu nepal	1234554326	adfgadthaaefg	1625752185-9.jpg.jpg	<div>EditDelete</div>