

Dharmsinh Desai University, Nadiad
Faculty of Technology
Department of Computer Engineering



B. Tech. CE Semester – V

Subject :
(CE – 515) Advanced Technologies

Project Title :
Seva Foundation

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Faculty of Technology Department of Computer Engineering

CERTIFICATE

This is to certify that Advanced Technologies Project entitled “Seva Foundation ” is the bonafied report of work carried out by

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2) Keval Talaviya (17CEUOS077)

Of Department of Computer Engineering, Semester V, academic year 2019-2020, under our supervision and guidance.

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1. Abstract

Seva Foundation :

“A project (family) to provide help to the needy, to give a platform for one who wants to lend a hand of help, to provide agricultural tools at subsidized rate, organize blood camp and summer camp. ”

Scholarships are provide to students who has passed out 10th standard current year. Students need to upload their respective (and valid) data through online registration to apply for scholarship. Authority will decide whether a student is eligible or not for scholarship. If the student is eligible surely his/her scholarship will be granted and he/she will receive an e-mail of confirmation.

Donation is also taken through online portal. Donor need to visit our portal to donate and fill the required details. As soon as donation is received donor will receive an e-mail of confirmation.

Farmers can get details of agricultural tools such as where it is available, original (market) price, subsidy (discount) provided by us, and selling price. This portal also helps farmer to decide what to by and from where.

Blood donation camps are organize by the “Seva foundation”. Dates, time and place of camps will be there on our site.

Summer camps are organized and conducted each and every year. Applicants need to register before the closing dates to be a part of summer camps.

2. Introduction

2.1 Purpose

It helps needy ones for their better future by providing educational scholarship. They will be motivated to study further hence it will increase our nation literacy rate. Farmer will come to know about better equipment which will be provided to them on subsidized. This will increase the crop production in India and financial condition of farmer will also be improved. This will boost India's overall economy.

It provides a better platform to one who wants to lend a helping hand by donation. Thus, it will also decrease the poverty.

During summer camps you will be visiting new places and traveling through various places. This helps in "It's a great stress buster; It helps you reinvent yourself; It boosts happiness and satisfaction; It makes you mentally resilient; It enhances creativity."

2.2 Scope

Farmer can only see agricultural tool's information but cannot buy them online. They need to go to the address provided. Once you have registered for scholarship and/or summer camp you cannot cancel it. Once the authority has entered the summer camp and blood camp details it cannot be updated.

Authority can add new agricultural tool, update the data of existing agricultural tool, and also delete them.

2.3 Overview

Scholarship form will be accessible 24*7. Applicant needs to upload their 10th standard marksheet and would have passed 10th this year. Applicant will get an e-mail on approval of their scholarship. Applicant needs to provide their bank details accurately. Organization will not be responsible for action done because of such invalid details. Authority will decide whether a student is eligible or not for scholarship.

Everyone has access to list of blood camp, summer camp and agricultural tool. Farmer can get the information of the agricultural tools.

Donor needs to fill the online form to donate if he wants to donate online. If the donation process has been completed successfully donor will receive the e-mail of confirmation.

Summer camp registration will be closed after the last date of its registration.

2.3 Technology used

1. Angular cli
2. Node js
3. Mongo Database
4. HTML
5. CSS
6. Bootstrap

2.3 Platform used

1. Windows
2. Linux (Ubuntu)

2.3 Tools used

1. Visual Code
2. Terminal and Command prompt
3. MongoDB Compass Community

3. Software Requirement Specifications

3.1 Functional Requirements

3.1.1 User Class 1: User

3.1.1.1 Apply for scholarship

Description: Students who has passed 10th current year will be applicable to apply for scholarship. If your scholarship is approved then you will receive an e-mail.

Input: First name, middle name, last name, email, mobile number, gender, date of birth, pincode, city name, bank name, bank account number, bank IFSC number, 10th standard percentage and 10th marksheet.

Output: Acknowledgement message.

3.1.1.2 View Agricultural Tools

Description: This function is designed for farmer but anyone can access it.

Input: Users Selection.

Output: Agricultural tools list with details (image of tool, name of tool, market price, subsidy (discount), selling price and address of the place where it is available) .

3.1.1.3 View Upcoming Blood Camps

Description: Blood camp is organized to collect blood.

Input: Users Selection.

Output: Upcoming blood camp list with details (name of blood camp, date on which it will be conducted, address where it will be held) .

3.1.1.4 View Upcoming Summer Camps

Description: Summer camp is organized to visit new places and you need to register if you want to participate.

Input: Users Selection.

Output: Upcoming blood camp list with details (name of summer camp, start date, end date, last date for registration, fee (amount to be paid), description of the tour) .

3.1.1.5 Apply for Summer Camp

Description: Students who has passed 10th current year will be applicable to apply for scholarship. If your scholarship is approved then you will receive an e-mail.

Input: First name, middle name, last name, email, mobile number and gender

Output: Acknowledgement message.

3.1.1.6 Donate money

Description: Donors need to donate through this function.

Input: First name, middle name, last name, email, mobile number, bank name, bank account number, bank IFSC number and donation amount.

Output: Acknowledgement message. Donor will receive and e-mail of conformation.

3.1.2 User Class 2: Admin

3.1.2.1 Login

Description: As admin is an authorised person and all its task are critical it must be authenticated. This is prerequisite for every admin task, operation except login itself.

Input: User name and password.

Output: If authenticated then all admin functionality will be accessible

3.1.2.2 Register Agricultural Tool

Description: Agricultural tools registered through this will be seen to User

Input: Image of tool, name of tool, market price, subsidy (discount), selling price and address of the place where it is available.

Output: Acknowledgment message.

3.1.2.3 View Agricultural Tools

Description: It will give idea that which agricultural tools are there.

Input: Users Selection.

Output: Agricultural tools list with details (image of tool, name of tool, market price, subsidy (discount), selling price and address of the place where it is available) .

3.1.2.4 Update Details of Agricultural Tool

Description: Existing agricultural tool's details will be updated.

Input: Data to be updated from (image of tool, name of tool, market price, subsidy (discount), selling price and address of the place where it is available.)

Output: Acknowledgment message.

3.1.2.5 Remove Agricultural Tool

Description: Existing agricultural tool's details will be removed.

Input: Users selection (Agro toll id).

Output: Acknowledgment message.

3.1.2.6 Register Summer Camp

Description: Summer camp registered through this will be seen to User

Input: Name of summer camp, start date, end date, last date for registration, fee (amount to be paid), description of the tour.

Output: Acknowledgment message.

3.1.2.7 View Summer Camps

Description: It will give idea that which Summer Camps are there are there.

Input: Users Selection.

Output: Summer camp list with details (name of summer camp, start date, end date, last date for registration, fee (amount to be paid), description of the tour)).

3.1.2.8 View Summer Camp Registrations

Description: It will give idea that how much registrations are there for particular summer camp.

Input: Users Selection (Summer camp Title).

Output: Summer camp registration list with details (First name, middle name, last name, email, mobile number and gender)).

3.1.2.9 Register Blood Camp

Description: Blood camp registered through this will be seen to User

Input: Name of blood camp, date on which it will be conducted, address where it will be held.

Output: Acknowledgment message.

3.1.2.10 View Donors Donation

Description: It will give idea that how much donors and donation has been received.

Input: Users Selection (Summer camp Title).

Output: Donors list with details (First name, last name, email, mobile number and donation amount).

3.1.2.11 View Scholarship Pending for Approval

Description: It will give the list of scholarships which are not approved by Admin.

Input: Users Selection.

Output: List of scholarship applicant with details (First name, email, mobile number and marksheet).

3.1.2.12 Approve Scholarship

Description: Admin will use this function to approve the scholarship from the list it get from function 3.1.2.11.

Input: Users Selection (Scholarship ID).

Output: Acknowledgment message. Applicant will receive and e-mail of conformation.

3.1.2.13 View Upcoming Blood Camps

Description: Blood camp is organized to collect blood.

Input: Users Selection.

Output: Upcoming blood camp list with details (name of blood camp, date on which it will be conducted, address where it will be held) .

3.2 Non-Functional Requirements

3.2.1 Performance

- > It respond to each and every query in less than 1 seconds.
- > It operate with zero down time.
- > It allow up to 100 users and 1 admin to remotely connect to the system at the same time.

3.2.2 Safety

- > Our system uses high end encryption to save your critical data.
- > Except banking no 3rd party API is allowed.
- > Admin needs to take care while entering the password so that no one in surrounding is able to read your finger moment.
- > Data will be recovered in case of server failure.

3.2.3 Reliability

- > It will perform well when executed in proper environment and network speed.
- > If your network speed is less than 100kb/s then it can take more than 1 second to respond.
- > It will work properly on all browser like (Firefox and Chrome) and on OS like Unix/Linux, Windows and MacOS.

3.2.4 Database

- > It uses MongoDB as database to store data.
- > We are storing photo in form of BASE64.

4. Design

4.1.1 Xml

```
<?xml version="1.0" encoding="utf-8" ?>

<!-- This is list of scholarship applicant -->
<scholarships>

    <scholarship sid="1">
        <firstname>Kumar</firstname>
        <lastname>Sondarva</lastname>
        <email>asd@gmail.com</email>
        <mobile_no>9645862137</mobile_no>
        <gender>Male</gender>
        <dob>06/10/1996</dob>
        <pincode>326555</pincode>
        <city>Bhavnagar</City>
        <bankname>SBI</bankname>
        <account_no>12544685556</account_no>
        <IFSC_no>45222222246</IFSC_no>
        <percentage>86</percentage>
        <marksheet>Base 64 of marksheet</marksheet>
    </scholarship>

    <scholarship sid="2">
        <firstname>Keval</firstname>
        <lastname>Talaviya</lastname>
        <email>as22d@gmail.com</email>
        <mobile_no>9945862137</mobile_no>
        <gender>Male</gender>
        <dob>06/09/1996</dob>
        <pincode>326555</pincode>
        <city>Bhavnagar</City>
        <bankname>SBI</bankname>
        <account_no>1222336</account_no>
        <IFSC_no>452666662246</IFSC_no>
        <percentage>96</percentage>
        <marksheet>Base 64 of marksheet</marksheet>
    </scholarship>
```

```
<scholarship sid="3">
  <firstname>Katherine</firstname>
  <lastname>Krait</lastname>
  <email>a121d@gmail.com</email>
  <mobile_no>9645862137</mobile_no>
  <gender>Female</gender>
  <dob>06/10/1999</dob>
  <pincode>3261115</pincode>
  <city>Bhavnagar</City>
  <bankname>SBI</bankname>
  <account_no>355585556</account_no>
  <IFSC_no>4333322246</IFSC_no>
  <percentage>86</percentage>
  <marksheet>Base 64 of marksheet</marksheet>
</scholarship>
```

```
</scholarships>
```

4.1.2 DTD

```
<!ELEMENT scholarships (scholarship*)>
```

```
<!ELEMENT scholarship
(firstname,lastname,email,mobile_no,gender,dob,pincode,city,bankname,account_no,
IFSC_no,percentage,marksheet)>
```

```
<!ELEMENT firstname (#PCDATA)>
<!ELEMENT lastname (#PCDATA)>
<!ELEMENT email (#PCDATA)>
<!ELEMENT mobile_no (#PCDATA)>
<!ELEMENT gender (#PCDATA)>
<!ELEMENT dob (#PCDATA)>
<!ELEMENT pincode (#PCDATA)>
<!ELEMENT city (#PCDATA)>
<!ELEMENT bankname (#PCDATA)>
<!ELEMENT account_no (#PCDATA)>
<!ELEMENT IFSC_bo (#PCDATA)>
<!ELEMENT percentage (#PCDATA)>
<!ELEMENT marksheet (#PCDATA)>
```

4.1.3 XSD

```
<?xml version="1.0"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">

<xs:element name="scholarship">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="firstname" type="xs:string"/>
      <xs:element name="middlename" type="xs:string"/>
      <xs:element name="lastname" type="xs:string"/>
      <xs:element name="email" type="xs:string"/>
      <xs:element name="mobile_no" type="xs:number"/>
      <xs:element name="gender" type="xs:string"/>
      <xs:element name="dob" type="xs:date"/>
      <xs:element name="pincode" type="xs:number"/>
      <xs:element name="city" type="xs:string"/>
      <xs:element name="bank_name" type="xs:string"/>
      <xs:element name="account_no" type="xs:number"/>
      <xs:element name="IFSC_no" type="xs:number"/>
      <xs:element name="percentage" type="xs:number"/>
      <xs:element name="marksheet" type="xs:string"/>
      <xs:element name="approve" type="xs:Boolean"/>
    </xs:sequence>
  </xs:complexType>
</xs:element>

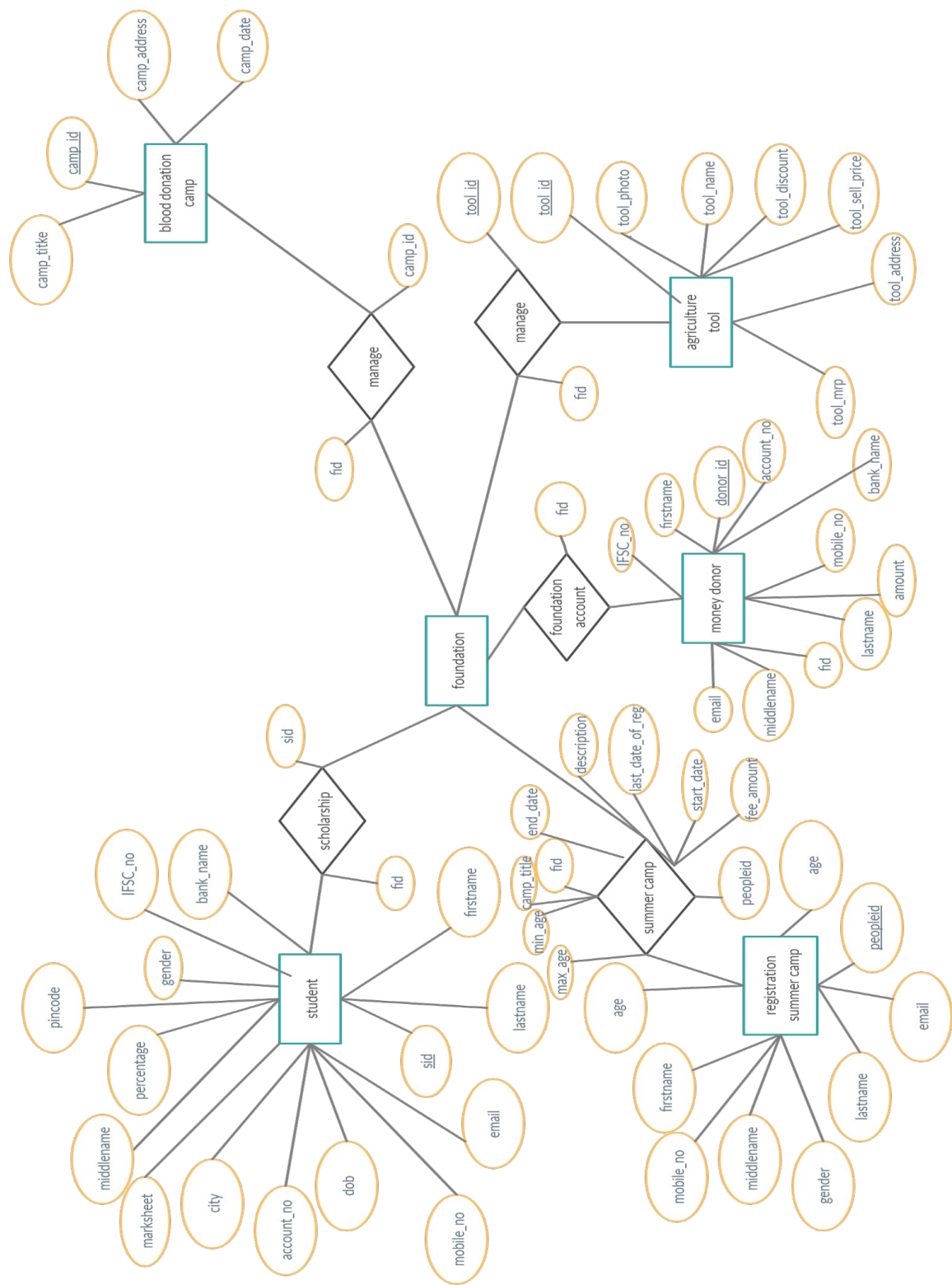
<xs:element name="gender">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:pattern value="male|female"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>

<xs:element name="password">
  <xs:simpleType>
    <xs:restriction base="xs:string">
      <xs:minLength value="10"/>
      <xs:maxLength value="10"/>
    </xs:restriction>
  </xs:simpleType>
</xs:element>
</xs:schema>
```

4.1.3 XSLT

```
<?xml version="1.0" encoding="UTF-8" ?>
<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
<html>
<body>
  <h1>Student Listing</h1>
  <table border="1">
    <tr>
      <th>Student ID</th>
      <th>First Name</th>
      <th>Last Name</th>
      <th>Mobile Number </th>
    </tr>
    <xsl:for-each select="scholarships/scholarship">
      <tr>
        <td>
          <xsl:value-of select="@sid"/>
        </td>
        <td>
          <xsl:value-of select="firstname"/>
        </td>
        <td>
          <xsl:value-of select="lastname"/>
        </td>
        <td>
          <xsl:value-of select="mobile_no"/>
        </td>
      </tr>
    </xsl:for-each>
  </table>
</body>
</html>
</xsl:template>
</xsl:stylesheet>
```

4.2 E-R Diagram



4.3 Data Dictionary

AGROTOOLS								
Sr. No	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table	Description
1.	tool_name	String	40	Yes	Yes			
2.	tool_mrp	Number	05	Yes	Yes			
3.	tool_discount	Number	02	Yes	Yes			
4.	tool_sell_price	Number	05	Yes	Yes			
5.	tool_address	String	100	Yes	Yes			
6.	tool_photo	String	70KB	Yes	Yes			

BLOODCAMP								
Sr. No	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table	Description
1.	camp_title	String	40	Yes	Yes			
2.	camp_date	Date	10	Yes	Yes			
3.	camp_addresses	String	100	Yes	Yes			

MONEYDONATION								
Sr. No	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table	Description
1.	firstname	String	30	Yes	Yes			
2.	middlename	String	30	Yes	Yes			
3.	lastname	String	30	Yes	Yes			
4.	email	String	30	Yes	Yes			
5.	mobile_no	Number	10	Yes	Yes			
6.	bank_name	String	30	Yes	Yes			
7.	account_no	Number	13	Yes	Yes			
8.	IFSC_no	Number	13	Yes	Yes			
9.	amount	Number	08	Yes	Yes			

ADMINLOGIN								
Sr. No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table	Description
1.	email	String	30	Yes	Yes			
2.	password	String	15	Yes	Yes			

SUMMERCAMP								
Sr. No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table	Description
1.	camp_title	String	30	Yes	Yes	PK		
2.	description	String	100	Yes	Yes			
3.	start_date	Date	10	Yes	Yes			
4.	end_date	Date	10	Yes	Yes			
5.	fee_amount	Number	05	Yes	Yes			
6.	max_seat	Number	03	Yes	Yes			
7.	min_age	Number	02	Yes	Yes			
8.	max_age	Number	02	Yes	Yes			
9.	last_date_to_reg	String	10	Yes	Yes			
10.	photo	String	70KB	Yes	Yes			

SCHOLARSHIP								
Sr. No.	Field Name	Data Type	Width	Required	Unique	PK/FK	Referenced Table	Description
1.	firstname	String	30	Yes	Yes			
2.	middlename	String	30	Yes	Yes			
3.	lastname	String	30	Yes	Yes			
4.	email	String	30	Yes	Yes			
5.	mobile_no	Number	10	Yes	Yes			
6.	Gender	String	30	Yes	Yes			
7.	DOB	Date	13	Yes	Yes			
8.	pincode	Number	13	Yes	Yes			
9.	city	String	08	Yes	Yes			
10.	bank_name	String	30	Yes	Yes			
11.	account_no	Number	13	Yes	Yes			
12.	IFSC_no	Number	13	Yes	Yes			
13.	percentage	Number	03	Yes	Yes			
14.	marksheets	String	70KB	Yes	Yes			
15.	approve	Boolean	01	Yes	Yes			

SUMMERCAMPREGISTRATION								
Sr. No.	Field Name	Data Type	Width	Required	Uniqu e	PK/FK	Referenced Table	Description
1.	firstname	String	30	Yes	Yes			
2.	middlename	String	30	Yes	Yes			
3.	lastname	String	30	Yes	Yes			
4.	email	String	30	Yes	Yes			
5.	age	Number	02	Yes	Yes			
6.	Gender	String	30	Yes	Yes			
7.	Mobile_no	Number	10	Yes	Yes			
8.	Title	String	30	Yes	Yes	FK	SUMMER CAMP	

5. Implementation Details

5.1 Modules Created

5.1.1 Blood Camp

User and admin can view upcoming blood camp and admin can add new upcoming blood camp. It provides address and date of camp which is entered by admin.

5.1.2 Summer Camp

User and admin can view upcoming summer camp and admin can add new upcoming summer camp. User can register for summer camp. Summer camp is register by admin and admin can view list of applicant of corresponding summer camp.

5.1.3 Agricultural Tools User's

User can view agricultural tools that are present in the near store. This tools are provided on a subsidized rate.

5.1.4 Apply for Scholarship

User can apply for scholarship through this module. Once user's scholarship is approved by admin user will get email of conformation message. Admin will approve the scholarships on the basis of marksheet uploaded.

5.1.5 Admin Manage Agricultural Tools


Admin will add agricultural tool to the list. Admin can also update and remove the existing tool details.

5.1.6 Admin Login

Admin's authentication will be done through this module. It provides security to our system and the critical data stored.

6. Screen-Shots



Enter Data of Agriculture Tool

Fields	Data
Name of tool	<input type="text" value="Tractor"/>
MRP	<input type="text" value="100000"/>
Discount	<input type="text" value="10"/>
Selling Price	<input type="text" value="90000"/>
Address	<input type="text" value="Plot no:- 568, Parth store Nadaid"/>
Photo	 <input type="button" value="Browse..."/> images.jpeg

Add Tool

Add tool

Available Agriculture Tools...

Name	Price	Discount	Sell Price	Address	Photo	Actions	
Tractor	100000	10	90000	Plot no:- 568, Parth store Nadaid		Edit	Delete
Tractor new	100000	10	90000	Plot no:- 568, Parth store Nadaid		Edit	Delete

[Home](#)[Money Donation](#)[Scholarship Approval](#)[agro Management](#)[Blood Camp](#)[Summer Camp](#)

Enter Data of EVENT

Fields	Data
Event Name	<input type="text" value="Blood Camp Of Youth"/>
Date	<input type="text" value="26 / 10 / 2019"/>
Address	<input type="text" value="DDU ,Nadiad"/>

[Add blood Camp](#)[Home](#)[Money Donation](#)[Scholarship Approval](#)[agro Management](#)[Blood Camp](#)[Summer Camp](#)

Upcoming Blood Camp...

[ADD CAMP](#)

CAMPAIGN DETAILS

Seva Ni Svarth

Camp Date :2019-10-31T00:00:00.000Z

Camp Address : plot no 315,near vaniavad, Nadiad

Care of Blood

Camp Date :2019-11-23T00:00:00.000Z

Camp Address : Aksh society,Bhavnagar


Blood Camp Of Youth

Camp Date :2019-10-26T00:00:00.000Z

Camp Address : DDU ,Nadiad

[Home](#)[Money Donation](#)[Scholarship Approval](#)[agro Management](#)[Blood Camp](#)[Summer Camp](#)

Enter Data of Camp

Fields	Data
Camp Title	<input type="text" value="Kutch"/>
Description	<input type="text" value="Ran on dessert"/>
Start Date	<input type="text" value="02 / 11 / 2019"/>
End Date	<input type="text" value="09 / 11 / 2019"/>
Fee Amount	<input type="text" value="1300"/>
Max No of seats	<input type="text" value="53"/>
Min Age	<input type="text" value="13"/>
Max Age	<input type="text" value="20"/>
Last Date to Register	<input type="text" value="27 / 10 / 2019"/>
File to upload Image	<div><div>Browse... Kutch.jpg</div></div>

[Add Summer Camp](#)

[Home](#)[Money Donation](#)[Scholarship Approval](#)[agro Management](#)[Blood Camp](#)[Summer Camp](#)

Upcoming Summer Camps...

[ADD CAMP](#)

CAMPAIGN DETAILS



Kutch

Start Date :2019-11-01

End Date:2019-11-03

Fee :1200

Max Seat :50

Min Age :12

Max Age :20

Last Date Of Registration :2019-10-29

[Register now](#)

new Kutch

Start Date :2019-11-29

End Date:2019-12-05

Fee :2000

Max Seat :120

Min Age :16

Max Age :25

Last Date Of Registration :2019-11-15

[Register now](#)

[Donate now](#)[Home](#)[scholarship](#)[Campaign](#)[About Us](#)

General Information

First Name:*

Kunal

middle Name:*

Ravi

Last Name:*

Sharma

E-mail:

df23@gmail.com

Mobile Number:*

9965844111

Bank Information

Bank_name:*

SBI

Account numbers:*

567746

IFSC no:*

66548222

Amount To Donate:*

15001

[Donate Now](#)

Creators

Keval Talaviya
Kumar Sondarva

Contact Us

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☎ +91 9198238743



7. Conclusion

- >User can apply for scholarship (can fill and submit scholarship form).
- >User can view list of upcoming Blood camp and summer camp.
- >User can register in summer camp
- >User can donate money.
- >User can view agricultural tools information

- >Admin can register new summer camp and blood camp.
- >Admin can view list of summer camp and blood camp hosted till now.
- >Admin can add, update, and remove agricultural tool's details.
- >Admin can view list of donors.
- >Admin can view list of scholarship applicant and can approve their scholarship.
- >Admin can view registration done in particular summer camp.

8. Limitation and Future Extension

- For security purpose New Admin Login will be done using OTP.
- We will make database more consistent and we will making this database efficient and easy to implement with huge data capacity.
- We will also make a Summer Camp Seat Management.
- We will also do a “Search Engine Optimization” of this project so that whenever on search our project will be the first suggestion in any search engine.
- We will also add a Payment gateway for money transactions.

9. BIBLIOGRAPHY

- For the successful implementation of this project we had referred to many websites.
- We have created the ER Diagram on “Creatly.com”.
- Mostly we had referred the online material for syntax of Database Connection and Operation with Database.

Reference Websites:

- <https://www.stackoverflow.com/>
- <https://www.w3school.com/>
- <https://www.tutorialspoint.com/>