

A Web portal for providing assistance to Autistic Children

Project Report

*Submitted in partial fulfilment of the Requirements for the award of the
Degree of*

BACHELOR OF ENGINEERING

IN

INFORMATION TECHNOLOGY

By

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Ibrahim Bagh, Hyderabad-31

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DECLARATION BY THE CANDIDATES

We **B. ADVITHA, N. LOKESH, A. NISHITH, L. DEEPTHI** bearing hall ticket numbers **1602-18-737-004, 1602-18-737-022, 1602-18-737-301, 1602-17-737-011** hereby declare that the project report entitled "**A WEB PORTAL FOR PROVIDING ASSISTANCE TO AUTISTIC CHILDREN**" under the guidance of **L. DIVYA**, Assistant Professor, Department of Information Technology, Vasavi College of Engineering, Hyderabad, is submitted in partial fulfilment of the requirement for the award of the degree of **Bachelor of Engineering** in **Information Technology**.

This is a record of bonafide work carried out by us and the results embodied in this project report have not been submitted to any other university or institute for the award of any other degree or diploma.

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This is a record of bonafide work carried out by me and the results embodied in this project report have not been submitted to any other university or institute for the award of any other degree or diploma.

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BONAFIDE CERTIFICATE

This is to certify that the project entitled "**A WEB PORTAL FOR PROVIDING ASSISTANCE TO AUTISTIC CHILDREN**" being submitted by **B. ADVITHA, N. LOKESH, A. NISHITH, L. DEEPTHI** bearing hall ticket numbers **1602-18- 737-004, 1602-18-737-022, 1602-18-737-301, 1602-17-737-011** in partial fulfilment of the requirements for the award of the degree of **Bachelor of Engineering in Information Technology** is a record of bonafide work carried out by them under my guidance.

Ms. L. Divya

Assistant Professor,

Internal guide

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HOD, IT

External Examiner

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of the project would not have been possible without the kind support and help of many individuals. We would like to extend our sincere thanks to all of them.

We would like to take the opportunity to express our humble gratitude to **Dr K. Raghavendra**, Scientist SG, ADRIN(ISRO), our External Guide under whom we executed this project and **Mrs L. Divya**, Assistant Professor, Department of Information Technology, our Internal Guide. We are grateful to their guidance, and constructive suggestions that helped us in the preparation of this project. Their constant guidance and willingness to share their vast knowledge made us understand this project and its manifestations in great depths and helped us to complete the assigned tasks. We would like to thank all faculty members and staff of the **Department of Information Technology** for their generous help in various ways for the completion of this project. Finally, yet importantly, we would like to express our heartfelt thanks to our HOD **Dr. K. Ram Mohan Rao**.

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ABSTRACT

Autism spectrum disorder (ASD) is a neurological and developmental disorder that affects how people interact with others, communicate, learn, and behave. Although autism can be diagnosed at any age, it is described as a “developmental disorder” because symptoms generally appear in the first two years of life. In this project, we developed a website SMILES SPECIAL SCHOOL by Adya SMILES which is an NGO for autistic or special children.

To contact a doctor or a therapist, the user must fill out an appointment form. The user must fill in details such as socio-demographic information, the mother's pre-natal, natal, and post-natal information, family history, play history, school history, and employment history. They can also use M-CHART to determine whether their child has autism. HTML, CSS, JavaScript, PHP, and SQL were used to create this website.

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1. Introduction

In this chapter, our project **A Web portal for providing assistance to autistic children** is introduced by describing - Overview, Motivation, Problem Definition and Objective of our project.

1.1. Overview

Autism is a serious developmental disorder that impairs the ability to communicate and interact. Autism spectrum disorder impacts the nervous system and affects the overall cognitive, emotional, social and physical health of the affected individual.

Diagnosing autism spectrum disorder (ASD) can be difficult because there is no medical test, like a blood test, to diagnose the disorder. Doctors look at the child's developmental history and behaviour to make a diagnosis.

ASD can sometimes be detected at 18 months of age or younger. By age 2, a diagnosis by an experienced professional can be considered reliable. However, many children do not receive a final diagnosis until much older. Some people are not diagnosed until they are adolescents or adults. This delay means that people with ASD might not get the early help they need.

Adya SMILES is an NGO that helps special people by their SMILES SPECIAL SCHOOL.

SMILES serves all types of students with special needs (both special education and alternative education populations).

It offers highly effective and efficient alternative schooling options for students who need to be placed outside of public school classrooms due to a variety of disabilities, deficits, or disadvantages. SMILES primarily works with individual students, parent groups, public school systems, large and small, and sometimes with private education organizations, when applicable, to best meet the needs of the students in non-traditional settings.

So, here with this web portal designed for this NGO we would like to help the user for diagnosing autism and also provide appointment with either doctor or therapist

by collecting information about the person having symptoms of autism. We have used the technologies HTML, CSS, Javascript for front end, php for backend and MySQL database. The link to the website is

<http://smilesfoundation.epizy.com/index.html>.

1.2. Motivation

Autism is a developmental disorder of variable severity that is characterized by difficulty in social interaction and communication and by restricted or repetitive patterns of thoughts and behaviour.

The range and severity of symptoms can vary widely. Common symptoms include difficulty with communication, difficulty with social interactions, obsessive interests and repetitive behaviours. Early recognition, as well as behavioural, educational and family therapies may reduce symptoms and support development and learning.

Exactly why autism happens isn't clear. It could stem from problems in parts of your brain that interpret sensory input and process language.

Autism is four times more common in boys than in girls. It can happen in people of any race, ethnicity, or social background. Family income, lifestyle, or educational level doesn't affect a child's risk of autism. But there are some risk factors:

- Autism runs in families, so certain combinations of genes may increase a child's risk.
- A child with an older parent has a higher risk of autism.
- Pregnant women who are exposed to certain drugs or chemicals, like alcohol or anti-seizure medications, are more likely to have autistic children. Other risk factors include maternal metabolic conditions such as diabetes and obesity. Research has also linked autism to untreated phenylketonuria (also called PKU, a metabolic disorder caused by the absence of an enzyme) and rubella (German measles).

There is no evidence that vaccinations cause autism.

Common symptoms of autism include:

- A lack of eye contact
- A narrow range of interests or intense interest in certain topics
- Doing something over and over, like repeating words or phrases, rocking back and forth, or flipping a lever
- High sensitivity to sounds, touches, smells, or sights that seem ordinary to other people
- Not looking at or listening to other people
- Not looking at things when another person points at them
- Not wanting to be held or cuddled
- Problems understanding or using speech, gestures, facial expressions, or tone of voice
- Talking in a sing-song, flat, or robotic voice
- Trouble adapting to changes in routine

Some children with autism may also have seizures. These might not start until adolescence.

It can be hard to get a definite diagnosis of autism. Your doctor will focus on behaviour and development.

For children, diagnosis usually takes two steps.

- A developmental screening will tell your doctor whether your child is on track with basic skills like learning, speaking, behavior, and moving. Experts suggest that children be screened for these developmental delays during their regular checkups at 9 months, 18 months, and 24 or 30 months of age. Children are routinely checked specifically for autism at their 18-month and 24-month checkups.
- If your child shows signs of a problem on these screenings, they'll need a more complete evaluation. This might include hearing and vision tests or genetic tests. Your doctor might want to bring in someone who specializes in autism disorders, like a developmental pediatrician or a child psychologist. Some psychologists can also give a test called the Autism Diagnostic Observation Schedule (ADOS).

There's no cure for autism. But early treatment can make a big difference in development for a child with autism. If you think your child shows symptoms of ASD, tell your doctor as soon as possible.

What works for one person might not work for another. The doctor should provide treatment for the parents or their child. The two main types of treatments are:

- Behavioral and communication therapy to help with structure and organization. Applied behavior analysis (ABA) is one of these treatments; it promotes positive behavior and discourages negative behavior. Occupational therapy can help with life skills like dressing, eating, and relating to people. Sensory integration therapy might help someone who has problems with being touched or with sights or sounds. Speech therapy improves communication skills.
- Medications to help with symptoms of ASD, like attention problems, hyperactivity, or anxiety.

Complementary treatments may help boost learning and communication skills in some people with autism.

Here, in this project, we developed a website that can provide assistance to the children suffering from autism.

1.3. Problem Definition

Adya SMILES is an NGO that offers supportive services that anyone would expect to see in an alternative setting. SMILES SPECIAL SCHOOL is divergent from normal schools. This school acknowledges, appreciates and accepts the students who are suffering with autism. Our Website will determine the level of autism by analyzing the relevant information about that child. This school offers different therapy sessions, counselling sessions, life and social skills training programs to support the students and also provides a plan according to their condition.

Thus, in this project, we have developed a web portal for Adya SMILES that provides assistance to autistic children. This website helps in diagnosing autism and also helps the autistic person get a doctor or therapist appointment. The diagnosis is done by using M-CHART and case performa form which the users have

to fill. The user(either the autistic person or parents of autistic child) can contact the organization staff if they wish to using this website.

1.4. Objective

As stated in the above problem definition, a web portal has been developed for autistic/special people(children). It is for Adya SMILES NGO that has established SMILES SPECIAL SCHOOL which offers the following services:

- Speech-Language Therapy,
- Special Education
- Occupational Therapy,
- Physical Therapy,
- Music Therapy,
- Adaptive Physical Education,
- Social work services,
- Counselling (Individual, Group & Family),
- Life skills and Social skills Training,
- psychological Assessment, Psychiatric Consultation & Evaluation.

2. Literature Survey

In this chapter, a review on few organizations is given.

- 1)** CDCWC (Child Development Clinic & Wellness Center) is an organization offers physical and mental health guidance and also offers therapy sessions. Website is built using HTML, CSS and JS. [3]

Drawback :

Focuses mainly on the early intervention of autism on children more than treating adolescent autism children.

- 2)** Another organization Action for Autism (AFA) supports and provides services to persons with autism. [4] This is the first website for autism in India. AFA provides services to different age groups ranging from young children to adults and people can access from any part of the country intermittently. This website is built using HTML, CSS and JS.

Drawback :

Online training sessions are not provided for the children who are not accessible or far from the location of the organisation.

- 3)** Institute for Child Development is another organization that provides training and therapy sessions for autistic patients.[5] It is also built using HTML, CSS and JS.

Drawback :

- User Interface (UI) is not interactive. Better UI can be designed. Looks like a basic website. The colours used for the website are very basic and not attractive. Doesn't make an impression for the first time users.
- Provides training for parents to treat their children rather than treating autism children directly

- 4)** Another organization Communication DEALL (Developmental Eclectic Approach to Language Learning) initiated Early intervention program for children

suffering with language disorders.[6] The staff to children ratio is very good i.e. 1:4. One staff member is allocated to take care of four children.

Drawback :

Focused mainly on the children with small age group. It is not accessible for the adolescent and adult age group who are suffering from autism.

3. Proposed System:

In this chapter – firstly, the components and requirements for our project to be implemented are mentioned. Then after, the architecture of the proposed system is explained. Finally, the details and steps of the project implementation in various phases are mentioned in detail.

3.1 System Requirements:

The Implementation of the project design can be divided into two sections; Hardware and Software implementations. The hardware implementation mainly includes having the right device, which in our case is a PC since it is a web application. The system is OS compatible, hence that's not something to be worried about. The software implementation plays a major role. The software implementation includes:

- Development of frontend.
- Development of backend.

3.1.1 Hardware Requirements:

- **8 GB RAM:** Having a system with 8GB RAM to execute the application will help in smooth and fast response of the website. It helps to explore multiple services and functionalities at the same time effectively.
- **PC:** Since the project is a web application, the view and working is better experienced in a personal computer, a desktop or a laptop than in a mobile phone or tablet.
- **INTERNET:** Its important for the device to have internet access in order to explore the services provided by the website.

3.1.2 Software Requirements:

- **VS CODE STUDIO:**

Visual Studio Code, also commonly referred to as VS Code, is a source-code-editor made by Microsoft for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality.

- **Xampp:**

Xampp is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible.

- **PHP:**

PHP code is usually processed on a web server by a PHP interpreter implemented as a module, a daemon or as a Common Gateway Interface (CGI) executable. On a web server, the result of the interpreted and executed PHP code – which may be any type of data, such as generated HTML or binary image data – would form the whole or part of an HTTP response.

- **HTML & CSS:**

HTML is the language for describing the structure of Web pages. HTML gives authors the means to:

- Publish online documents with headings, text, tables, lists, photos, etc.
- Retrieve online information via hypertext links, at the click of a button.
- Design forms for conducting transactions with remote services, for use in searching for information, making reservations, ordering products, etc.

CSS is the language for describing the presentation of Web pages, including colors, layout, and fonts. It allows one to adapt the presentation to different types of devices, such as large screens, small screens, or printers. CSS is independent of HTML and can be used with any XML-based markup language. The separation of HTML from CSS makes it easier to maintain sites, share style sheets across pages, and tailor pages to different environments. This is referred to as the separation of structure from presentation.

3.2. Architecture

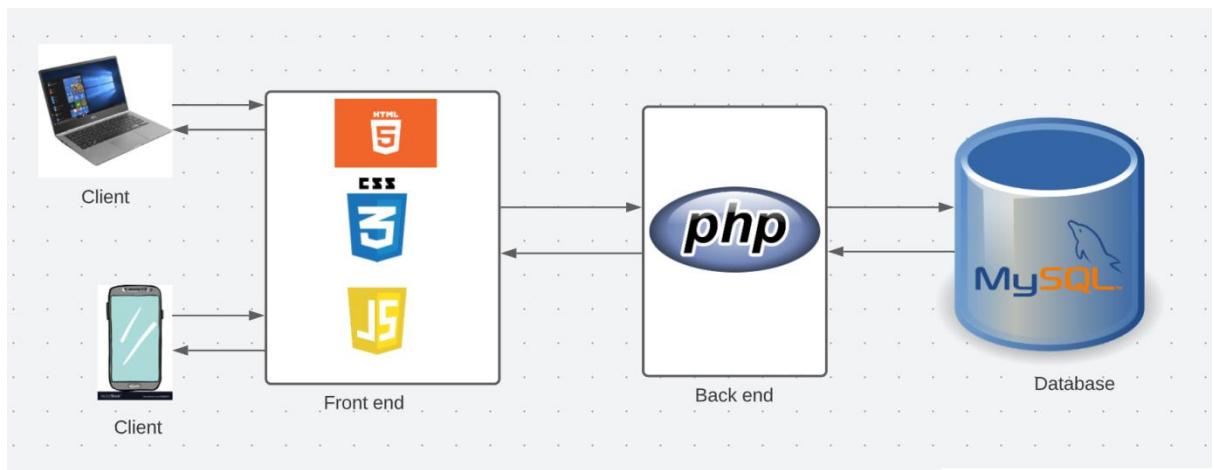


Fig 3.1: System Architecture

3.3. Implementation

This project is developed using HTML, CSS, JavaScript, PHP and MySQL. The tool that we have used is XAMPP.

The flow chart for the project is as follows:

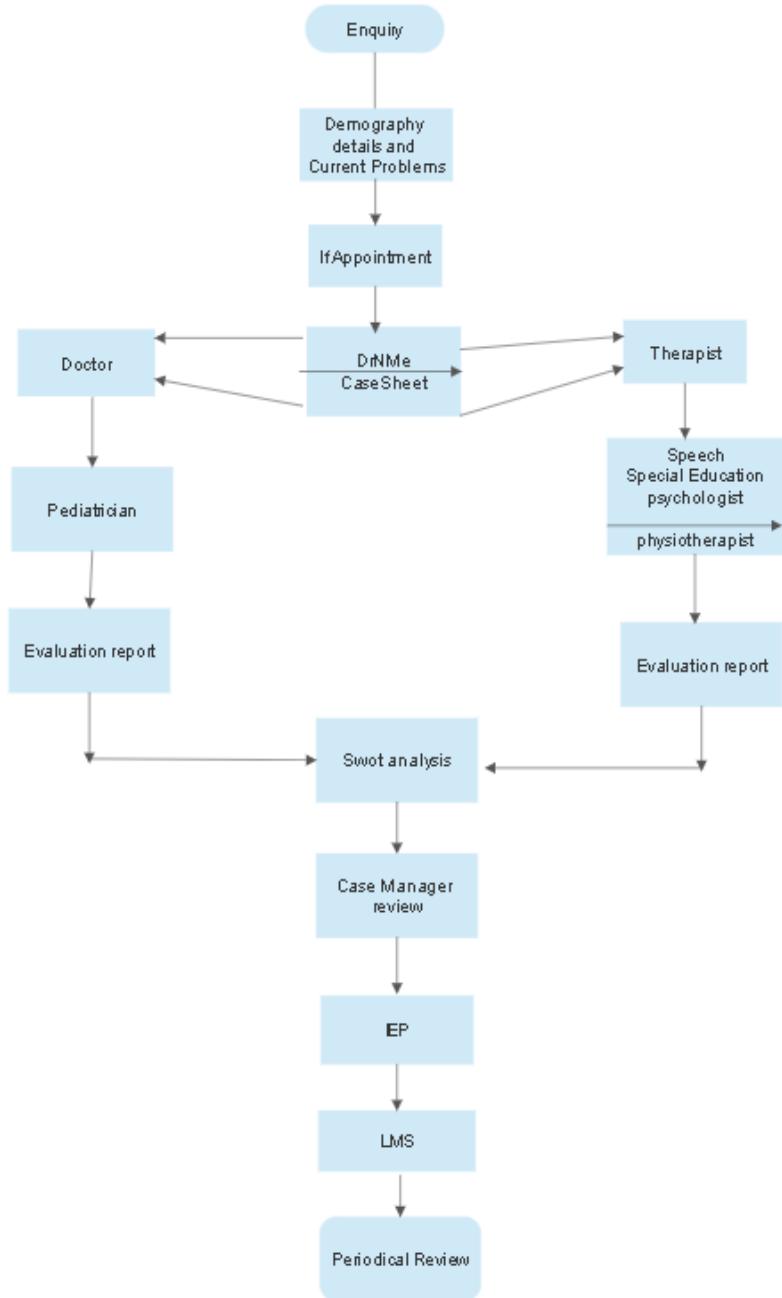


Fig 3.2: Data Flow Diagram

Flow:

- 1) The user should fill the basic enquiry/consultation form for consulting with the team. Case history performa and M-chart when they visit the website if they want to know whether their child suffers from autism.
 - 2) If the user wants to know whether their child suffers from autism they have to fill case history performa and M chart.
 - 3) Case history performa contains basic demographic details along with prenatal, natal and post natal details and school , social and family history.
 - 4)If the user wants to consult a doctor or therapist or both, they should opt for them.
 - 5) The doctor is pediatrician and the therapist could be speech, special educator, Physiotherapist, psychologist.
 - 6)The user should pay the consultation fee for consulting doctor or therapist.
 - 7) The doctor or therapist will evaluate the child using the details provided and prepare a report.
 - 8) Using Doctor's report and therapist's report, swot analysis is done.
 - 9) Case manager reviews all inputs and coordinates with the respective therapist for developing an individual education plan - IEP
- IEP is a typical course LMS system where we track all students' learnings, progress reports, topics split to parents for homework, etc.
- 10) Case manager will schedule reassessment at least each 6 months duration for existing students, compile seronegative reports using comparative analysis.
 - 11) Case manager is the only person who has the authority to intervene in both medical and therapy screenings.
 - 12) Case manager effort will be done through AI by default, and manual review can also be done.

13) Since this is a typical OUTPATIENT module, we might ask students or patients to submit previous medical records and upload them for our internal reference.

The data base schema of the project is as follows:

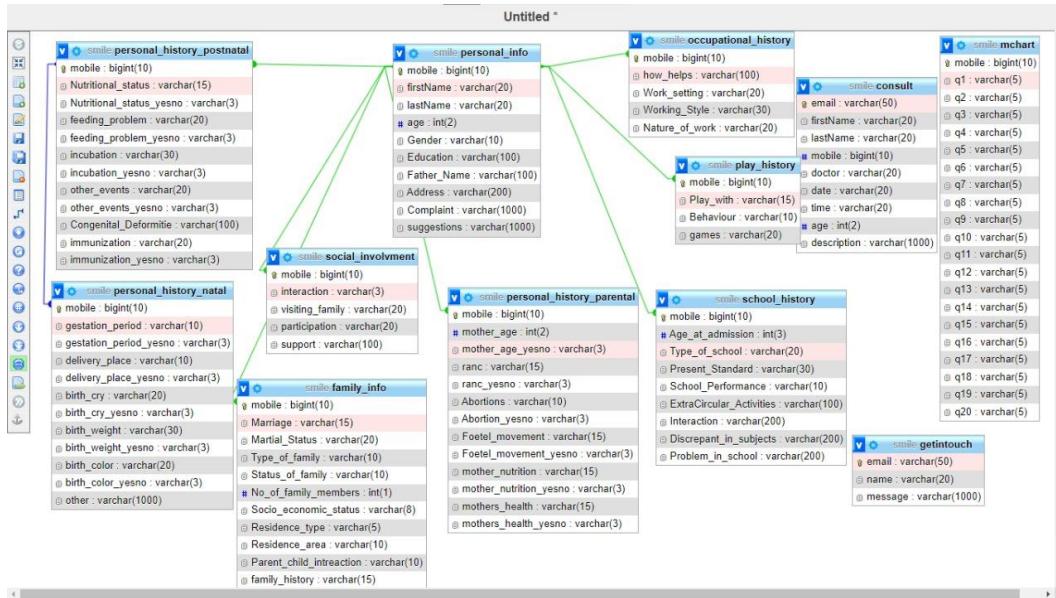


Fig 3.3: Database Schema

Tables that are created in the database:

Table	Action	Rows	Type	Collation	Size	Overhead
consult	★ Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_general_ci	16.0 Kib	-
family_info	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
getintouch	★ Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_general_ci	16.0 Kib	-
mchart	★ Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	16.0 Kib	-
occupational_history	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
personal_history_natal	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
personal_history_parental	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
personal_history_postnatal	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
personal_info	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
play_history	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
school_history	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
social_involvement	★ Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	16.0 Kib	-
12 tables	Sum	9	InnoDB	utf8mb4_general_ci	192.0 Kib	0 B

Fig 3.4: Tables created in the database

4. Testing

4.1 GET IN TOUCH FORM:

The screenshot shows the 'GET IN TOUCH' form on the SMILES Foundation website. The form fields are as follows:

- Name: Ramoji
- Email: Ramoji@gmail.com
- Message: Need an mental counceling

A large blue 'SEND MESSAGE' button is at the bottom of the form.

4.1 Testing GET IN TOUCH Form 1

The screenshot shows the 'GET IN TOUCH' form on the SMILES Foundation website. The form fields are identical to the previous one:

- Name: Ramoji
- Email: Ramoji@gmail.com
- Message: Need an mental counceling

Below the form, a message says "data entered successfully".

4.2 Entering data into database through GET IN TOUCH Form

+ Options

	email	name	message
<input type="checkbox"/>	Edit Copy Delete nishith.kumar.9908@gmail.com	Nishith Kumar	Nothing
<input type="checkbox"/>	Edit Copy Delete nishith1@gmail.com	Nishith	Need to consult a physiotherapist
<input type="checkbox"/>	Edit Copy Delete lokesh12@gmail.com	Lokesh	need to consult a speech therapist
<input type="checkbox"/>	Edit Copy Delete mahesh1@gmail.com	Mahesh	Need an mental counceling
<input type="checkbox"/>	Edit Copy Delete Ramoji@gmail.com	Ramoji	Need an mental counceling

Check all With selected: Edit Copy Delete Export

4.3 Verifying data saved into database

4.2 MCHART:

M-CHART-R
Please answer the following questions
Enter your mobile number: 9908207103

If you point at something across the room, does your child look at it?
 1. (FOR EXAMPLE, if you point at a toy or an animal, does your child look at the toy or animal?)

Have you ever wondered if your child might be deaf?
 2.

Does your child play pretend or make-believe?
 3. (FOR EXAMPLE, pretend to drink from an empty cup, pretend to talk on a phone, or pretend to feed a doll or stuffed animal)

Does your child like climbing on things?
 4. (FOR EXAMPLE, furniture, playground equipment, or stairs)

Question 1 If you point at something across the room, does your child look at it?

PASS examples
Looks Easy
Points to object
Looks and comments on object
Looks if parent points and says "Look!"

FAIL examples
Ignores parent
Looks around room randomly
Looks at parent's finger

Yes No
 Yes No
 Yes No
 Yes No

4.4 Taking Survey in MCHART

M-CHART-R
Please answer the following questions
Enter your mobile number: 9908207103

If you point at something across the room, does your child look at it?
 1. (FOR EXAMPLE, if you point at a toy or an animal, does your child look at the toy or animal?)

Have you ever wondered if your child might be deaf?
 2.

Does your child play pretend or make-believe?
 3. (FOR EXAMPLE, pretend to drink from an empty cup, pretend to talk on a phone, or pretend to feed a doll or stuffed animal)

Does your child like climbing on things?
 4. (FOR EXAMPLE, furniture, playground equipment, or stairs)

Does your child make unusual finger movements near his or her eyes?
 5. (FOR EXAMPLE, does your child wiggle his or her fingers close to his or her eyes?)

Does your child point with one finger to ask for something or to get help?

4.5 PASS/FAIL getting marked based on the survey

	mobile	q1	q2	q3	q4	q5	q6	q7	q8	q9	q10	q11	q12	q13	q14	q15	q16	q17	q18	q19	q20
<input type="checkbox"/>	Edit Copy Delete	0	pass	fail	pass	fail	pass														
<input type="checkbox"/>	Edit Copy Delete	9908207103	fail	pass	pass	fail	pass	pass	fail	pass	fail	pass	fail	pass	pass	fail	fail	fail	fail	fail	

4.6 Report getting stored in the database

4.3 CONSULT :

Not secure | smilesfoundation.epizy.com/consult.html

Book Appointment

Please provide required info.Thank you!

Name	Nishith	Kumar
mobile no.	9908207103	
emailid	nishithkumar@gmail.com	
Specialist*	pediatrician	
Date*	02-06-2022	
Time *	12:30	
Age*	17	
Any comments, questions or suggestions?		

4.7 Filling details to book appointment using CONSULT Form

	email	firstName	lastName	mobile	doctor	date	time	age	description
<input type="checkbox"/>	Edit Copy Delete nishith.kumar.9908@gmail.com	Nishith	Kumar	919908207103	nenalogist	02-06-2022	12:30	22	No
<input type="checkbox"/>	Edit Copy Delete nishithkumar@gmail.com	Nishith	Kumar	9908207103	pediatrician	02-06-2022	12:30	17	Wont Eat food

4.8 Details of Appointments reserved through the consult form

5. Results / Screenshots

In this chapter, the results of the project implementation are shown.

The url of the website that has been developed in our project is
<http://smilesfoundation.epizy.com/index.html>

The homepage of the website is:

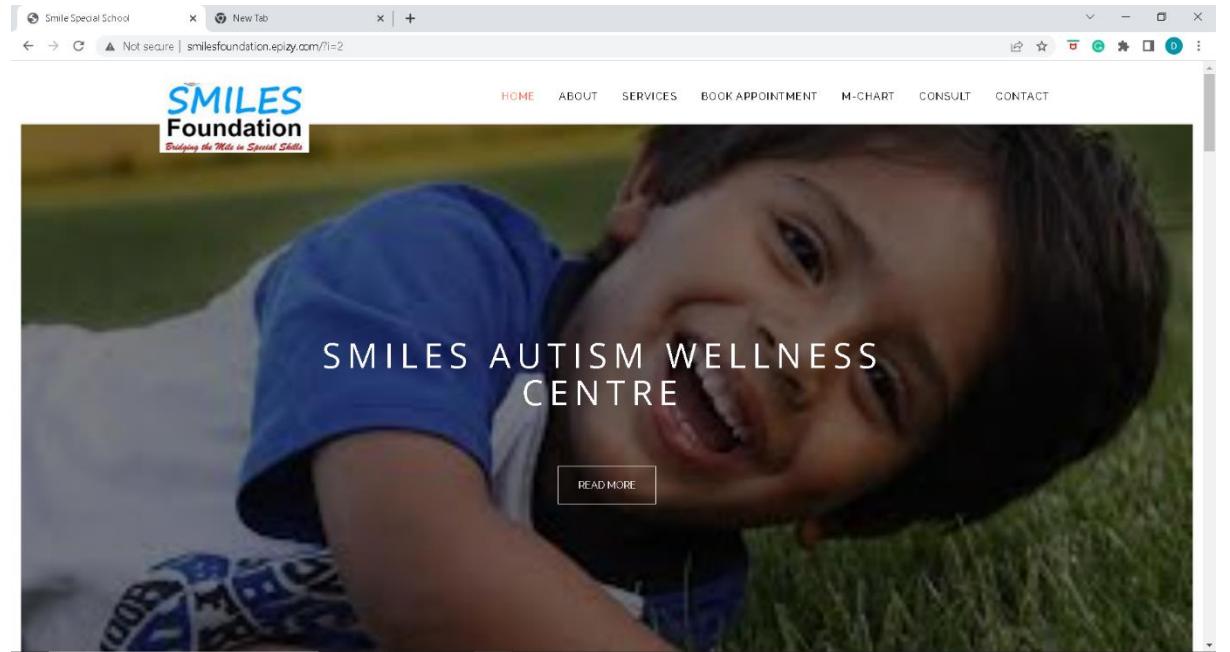


Fig 5.1: Website's Home Page

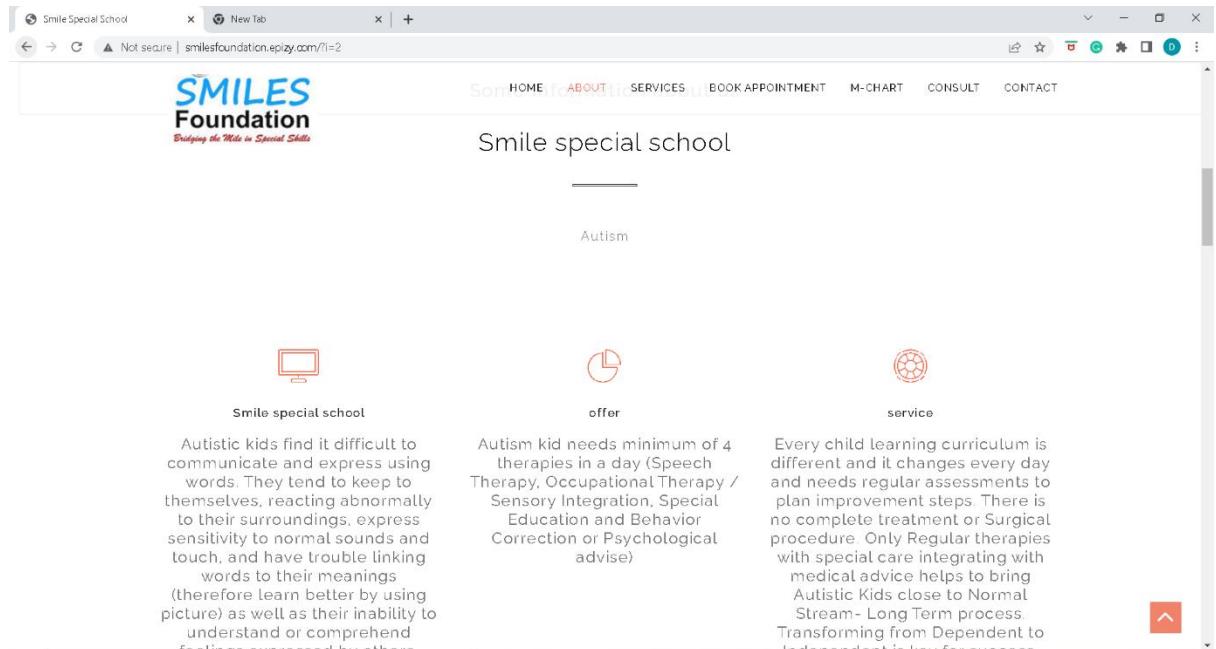


Fig 5.2: About Page

Various services offered by SMILES SPECIAL SCHOOL.

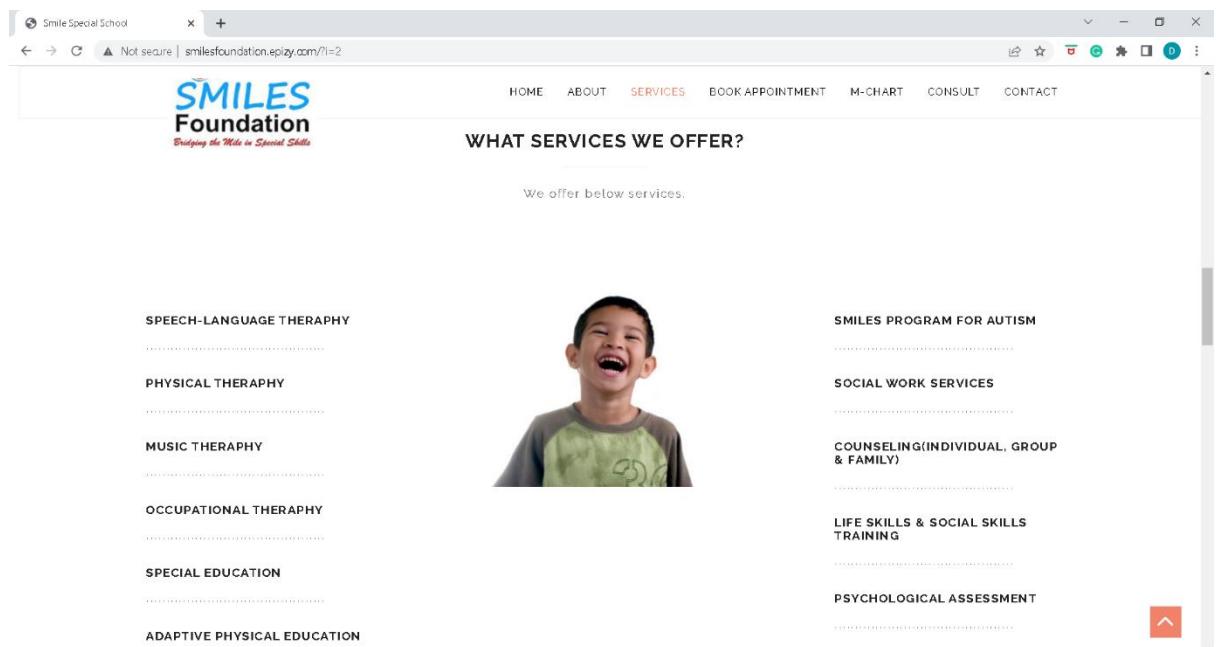


Fig 5.3: Services offered by SMILES SPECIAL SCHOOL

The screenshot shows a web browser window with the title 'Book your Appointment'. The URL in the address bar is 'smilesfoundation.epizy.com/form.html'. The page has a light blue header with the text 'BOOK APPOINTMENT' in bold. Below the header, there is a message: 'Please provide required info.Thank you!'. The form consists of several input fields:

- NAME***: Two adjacent input fields for 'First name' and 'Last name'.
- AGE***: A single input field for age.
- GENDER***: A dropdown menu labeled 'Please Select'.
- EDUCATION***: A single input field.
- FATHER'S NAME***: A single input field.
- ADDRESS***: A single input field.
- MOBILE NO.**: A single input field.

Below the main form, there is a section titled 'PRESENTING COMPLAINT' with a large, empty input area.

Fig 5.4: Book Appointment (Socio-Demographic Details)

For booking an appointment and for diagnosing autism the user has to input basic demographic details like name, age, gender, education, father's name and address, mobile number and present issues faced by the autistic person.

Book your Appointment

Not secure | smilesfoundation.epizy.com/form.html

PERSONAL HISTORY			
Prenatal	Events	Reported	Y/N
	Mother's age at conception	<input type="text"/>	
	RANC	--Please choose an option--	
	Abortions	--Please choose an option--	
	Foetal-movement	--Please choose an option--	
	Nutritional Status of the Mother	--Please choose an option--	
	Mother's Health	<input type="checkbox"/> Diabetics <input type="checkbox"/> Hypertension <input type="checkbox"/> Convulsion <input type="checkbox"/> Infection <input type="checkbox"/> Swelling <input type="checkbox"/> Level of B.Pn <input type="checkbox"/> Emotional Trauma	

Fig 5.5: Book Appointment (Prenatal, Natal Details)

WhatsApp

Book your Appointment

Not secure | smilesfoundation.epizy.com/form.html

Gmail YouTube Maps

Natal	Gestation period	--Please choose an option--
	Delivery place	--Please choose an option--
	Birth weight	--Please choose an option--
	Birth color	--Please choose an option--
	Any other	<input type="text"/>
Post Natal	Nutritional Status	--Please choose an option--
	Feeding Problem	--Please choose an option--
	Put in incubation due to	--Please choose an option--
	Any events	--Please choose an option--
	Congenital Deformities	<input type="text"/>
Immunization	--Please choose an option--	

Fig 5.6: Book Appointment(Post Natal Details)

Personal History details which includes prenatal ,natal and post natal conditions should also be selected by the user because these details play a major role for diagnosing autism in children.

FAMILY HISTORY	
Marriage	--Please choose an option--
Marital Status	--Please choose an option--
Type of Family	--Please choose an option--
Status of Family	--Please choose an option--
No. of family members	
Socio-economic status	--Please choose an option--
Residence type	--Please choose an option-- --Please choose an option--
Parent Child Interaction	--Please choose an option--
History in family	--Please choose an option--

Fig 5.7: Book Appointment (Family History)

Details regarding family history should be selected.

SCHOOL HISTORY	
Age of Admission in School	
Type of School Admitted	--Please choose an option--
Present Standard	
School Performance	--Please choose an option--
Extra Curricular Activities	
Interactions: Teachers/School-mates	
Discrepant in subjects	
Problem in school	

Fig 5.8: Book Appointment (School History)

School history of the child details should be filled by the user.

PLAY HISTORY

Plays With	--Please choose an option--
Behavior during play and group	--Please choose an option--
Plays Games	--Please choose an option--

OCCUPATIONAL HISTORY

How Child helps the mother	
Work Setting	--Please choose an option--
Working Style	--Please choose an option--
Nature of work	--Please choose an option--

Fig 5.9: Book Appointment (Play History and Occupational History)

Play history and occupational history of the child should be selected. This is also a part of Case History Performa.

SOCIAL INVOLVEMENT

Interactions	Neighbourhood Participation	--Please choose an option--
Visiting Family and Neighbours		
Participation	--Please choose an option--	
Support of External families		

ANY COMMENTS, QUESTIONS OR SUGGESTIONS?

New Shastry Nagar, Meter Factory Road,
Erragadda, Hyderabad - 500018. +919849559676
info@autism school

Speech-Language Therapy
Physical Therapy

Home
Enquiry

Book appointment

Fig 5.10: Book Appointment (Social Involvement)

Social involvement details should be selected by the user and the user should click on book appointment.

M-CHART:

The M-CHAT™ (Modified Checklist for Autism in Toddlers) is a parent-report screening tool to assess the risk for Autism Spectrum Disorder (ASD). It is a psychological questionnaire that evaluates risk for autism spectrum disorder in children ages 16–30 months.

The screenshot shows the M-CHART-R web application interface. At the top, there is a header with the title 'M-CHART-R' and a note 'Not secure | smilesfoundation.ezy.com/mchart.html'. Below the header, there is a form field 'Enter your mobile number:' followed by a 'Take Survey' button. The main content area contains six numbered questions, each with a 'Take Survey' button and 'PASS' and 'FAIL' buttons to the right. Question 1: 'If you point at something across the room, does your child look at it?' (example: toy or animal). Question 2: 'Have you ever wondered if your child might be deaf?' (example: pretend to drink from an empty cup). Question 3: 'Does your child play pretend or make-believe?' (example: pretend to talk on a phone). Question 4: 'Does your child like climbing on things?' (example: furniture, playground equipment, or stairs). Question 5: 'Does your child make unusual finger movements near his or her eyes?' (example: wiggle fingers close to eyes). Question 6: 'Does your child point with one finger to ask for something or to get help?' (example: pointing to a snack or toy). Each question has a 'Take Survey' button and 'PASS' and 'FAIL' buttons.

Fig 5.11: M-CHART (1)

This screenshot shows the same M-CHART-R interface as Fig 5.11, but with a modal window open over the sixth question. The modal is titled 'Question 1 If you point at something across the room, does your child look at it?' It contains two sections: 'PASS example' and 'FAIL example'. The 'PASS example' section lists: 'Looks Easy', 'Points to object', 'Looks and comments on object', and 'Looks if parent points and says it looks like it'. The 'FAIL example' section lists: 'Ignores parent', 'Looks around room randomly', and 'Looks at parent's finger'. Below these examples are two sets of radio buttons for 'Yes' and 'No' responses. At the bottom of the modal are 'Close' and 'Save changes' buttons. The background of the main page shows the other five questions of the M-CHAT checklist.

Fig 5.12: M-CHART (2)

M-CHART-R

Please answer the following questions

Enter your mobile number: _____

If you point at something across the room, does you
 1. (FOR EXAMPLE, if you point at a toy or an animal, do
[Take Survey](#)

Have you ever wondered if your child might be deaf
 2. [Take Survey](#)

Does your child play pretend or make-believe?
 3. (FOR EXAMPLE, pretend to drink from an empty cup, pretend to talk on a phone, or pretend to feed a doll or stuffed animal)
[Take Survey](#)

Does your child like climbing on things?
 4. (FOR EXAMPLE, furniture, playground equipment, or stairs)
[Take Survey](#)

Does your child make unusual finger movements near his or her eyes?
 5. (FOR EXAMPLE, does your child wiggle his or her fingers close to his or her eyes?)
[Take Survey](#)

Does your child point with one finger to ask for something or to get help?
 6. (FOR EXAMPLE, pointing to a snack or toy that is out of reach)

Fig 5.13: M-CHART (3)

M-CHART-R

Please answer the following questions

Enter your mobile number:

If you point at something across the room, does you
 1. (FOR EXAMPLE, if you point at a toy or an animal, do
[Take Survey](#)

Question 2 You reported that you have wondered if your child is deaf. What led you to wonder that?

Does he/she...
 often ignore sounds?
 often ignore people?

Yes Yes No

[Close](#) [Save changes](#)

Have you ever wondered if your child might be deaf?
 2.
[Take Survey](#)

Does your child play pretend or make-believe?
 3. (FOR EXAMPLE, pretend to drink from an empty cup, pretend to talk on a phone, or pretend to feed a doll or stuffed animal)
[Take Survey](#)

Does your child like climbing on things?
 4. (FOR EXAMPLE, furniture, playground equipment, or stairs)
[Take Survey](#)

Does your child make unusual finger movements near his or her eyes?
 5. (FOR EXAMPLE, does your child wiggle his or her fingers close to his or her eyes?)
[Take Survey](#)

Does your child point with one finger to ask for something or to get help?
 6. (FOR EXAMPLE, pointing to a snack or toy that is out of reach)
[Take Survey](#)

Fig 5.14: M-CHART (4)

The user has to take the survey for every question based on which PASS or FAIL is calculated for that question.

Few more results regarding the M-CHART:

The screenshot shows the M-CHART survey interface. A modal window titled "Question 8 Is your child interested in other children?" is open. It contains two questions with radio button options: "Is he/she interested in children who are not his/her brother or sister?" (Yes selected) and "When you are at the playground or supermarket, does your child usually respond to other children?" (Yes selected). Below these are several statements with radio button options: "Play with another child?", "Talk to another child?", "Babble or make vocal noises?", "Watch another child?", "Smile at another child?", "Act shy at first but then smile?", and "Get excited about another child?". Most of these have "Yes" selected. At the bottom of the modal are "Close" and "Save changes" buttons. In the background, there is a summary table with columns for "Name", "Age", "Gender", "Score", "Status", and "Actions". The status column shows "PASS" for most rows and "FAIL" for one. The actions column includes "Edit", "Delete", and "Print" buttons.

Fig 5.15: M-CHART (5)

This screenshot shows the M-CHART survey interface with a different set of questions. The visible questions are: "Is your child interested in other children?", "Does your child show you things by bringing them to you or holding them up for you to see not to get help, but just to share?", "Does your child respond when you call his or her name?", "Does your child get upset by everyday noises?", and "Does your child walk?". Each question has a "Take Survey" button below it. In the background, there is a summary table with columns for "Name", "Age", "Gender", "Score", "Status", and "Actions". The status column shows "PASS" for most rows and "FAIL" for one. The actions column includes "Edit", "Delete", and "Print" buttons.

Fig 5.16: M-CHART (6)

M-CHART-R

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18. (FOR EXAMPLE, if you don't point, can your child understand "put the book on the chair" or "bring me the blanket")

[Take Survey](#)

If something new happens, does your child look at your face to see how you feel about it?

19. (FOR EXAMPLE, if he or she hears a strange or funny noise, or sees a new toy, will he or she look at your face?)

[Take Survey](#)

Does your child like movement activities?

20. (FOR EXAMPLE, being swung or bounced on your knee)

[Take Survey](#)

[Submit](#)

New Shastri Nagar, Meter +91984559676
Factory Road, info@saturn.school
Erragadda , Hyderabad -500018.

Speech-Language Therapy
Physical Therapy
Music Therapy
Occupational Therapy
Special Education
Adaptive Physical Education

Home
Enquiry
Consult
Contact Us

Fig 5.17: M-CHART (7)

The user has to click on the submit button for submitting the M-CHART.

Book Appointment

Please provide required info. Thank you!

Name

First

Last

mobile no.

emailid

Specialist*

Please Select

Date*

Time *

Age*

Any comments, questions or suggestions?

Fig 5.18: Consult page

The user can schedule appointment with either a doctor or therapist by clicking on the CONSULT menu on the homepage.

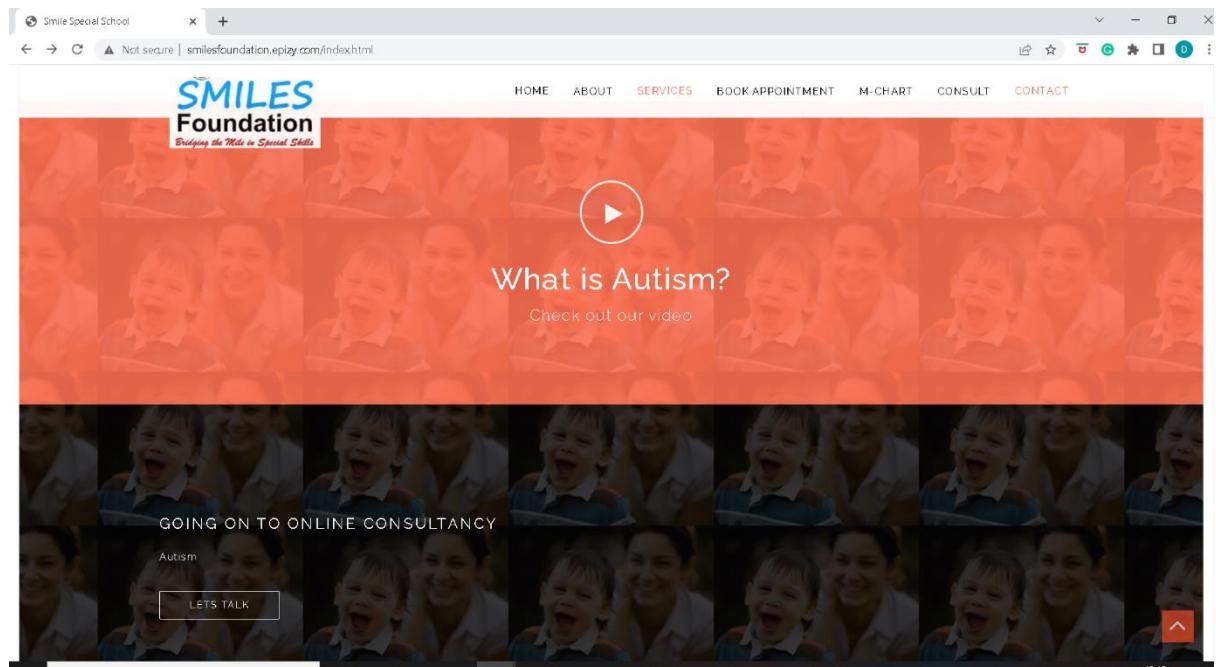


Fig 5.19: Autism Video Page

If the user clicks on this button which is on the homepage, a video about autism is played.

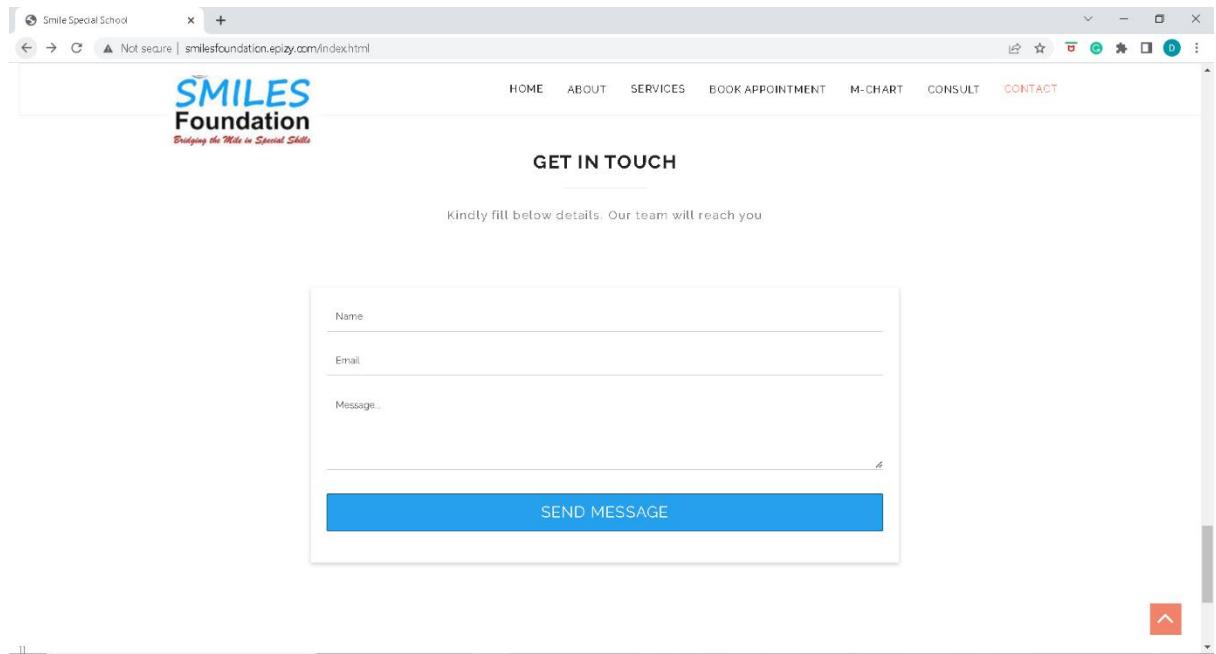


Fig 5.20: Contact Page

The user can contact the Adya smiles foundation team by filling this CONTACT form.

6. Conclusion and Future Scope:

6.1. Conclusion:

According to a survey, every 1 in 100 children below 10 years suffer with autism in India. There should be more number of schools and program to treat the autism children. Smiles Special School is one of them. SMILES Special School serves both alternative education and therapy sessions.

It offers a special program based on three A's - Acknowledge, Appreciate and Accept. The alternative education include Speech-Language Therapy, Special Education, Occupational Therapy, Physical Therapy, Music Therapy and many other. This alternative education helps them to grow out in their life. It adds few life skills to their life. They gain confidence in life by adapting these skills.

6.2. Future Scope:

In the future, the data collected from the patient will be analysed by an machine learning algorithm and determines the level of Autism that patient is suffering . And according to that education plan will be generated.

In addition, LMS System will be added to the website where System Administrator can track al the student learning, progress, reports. And given access to the respective guardian to check the progress and provide necessary updates whether the child has shown significant improvement in their behaviour.

References

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<https://www.cdc.gov/ncbdd/autism/screening.html>

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[3]. Child Development Clinic & Wellness Center (n.d.)

www.cdcwc.com.

[4]. Autism for Autism

<http://www.autism-india.org/>

[5]. Institute for Child Development (n.d.).

<https://www.icddelhi.org>

[6]. Communication Deall(n.d.).

www.communicationdeall.com

[7]. <https://getbootstrap.com/docs/4.6/getting-started/introduction/>

APPENDIX

CODE:

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="utf-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width,
initial-scale=1">

    <title>Smile Special School</title>

    <!-- Custom Google fonts -->

    <link
href='http://fonts.googleapis.com/css?family=Raleway:40
0,500,300,700' rel='stylesheet' type='text/css'>

    <link
href="http://fonts.googleapis.com/css?family=Crimson+Te
xt:400,600" rel="stylesheet" type="text/css">

    <link
href="http://fonts.googleapis.com/css?family=Open+Sans:
400,300,600" rel="stylesheet" type="text/css">

    <!-- Bootstrap CSS Style -->

    <link rel="stylesheet"
href="assets/css/bootstrap.min.css">

    <!-- Template CSS Style -->

    <link rel="stylesheet" href="assets/css/style.css">

    <!-- Animate CSS -->

    <link rel="stylesheet" href="assets/css/animate.css">

    <!-- FontAwesome 4.3.0 Icons -->

    <link rel="stylesheet" href="assets/css/font-
awesome.min.css">
```

```
<!-- et line font -->

<link rel="stylesheet" href="assets/css/et-line-
font/style.css">

<script
src="https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.m
in.js"></script>

<script
src="https://oss.maxcdn.com/respond/1.4.2/respond.min.j
s"></script>

<style>

footer *{

    line-height: 1.5;
    font-family: 'Poppins', sans-serif;
    margin:0;
    padding:0;
    box-sizing: border-box;
}

.container{

    max-width: 1170px;
    margin:auto;
}

.row{

    display: flex;
    flex-wrap: wrap;
}

ul{

    list-style: none;
}

.footer{

    background-color: #24262b;
```

```
padding: 70px 0;
}

.footer-col{
    width: 25%;
    padding: 0 15px;
}

.footer-col h4{
    font-size: 18px;
    color: #ffffff;
    text-transform: capitalize;
    margin-bottom: 35px;
    font-weight: 500;
    position: relative;
}

.footer-col h4::before{
    content: '';
    position: absolute;
    left:0;
    bottom: -10px;
    background-color: #e91e63;
    height: 2px;
    box-sizing: border-box;
    width: 50px;
}

.footer-col ul li:not(:last-child){
    margin-bottom: 10px;
}

.footer-col ul li a{
    font-size: 16px;
```

```
    text-transform: capitalize;
    color: #ffffff;
    text-decoration: none;
    font-weight: 300;
    color: #bbbbbb;
    display: block;
    transition: all 0.3s ease;
}

.footer-col ul li a:hover{

    color: #ffffff;
    padding-left: 8px;
}

.footer-col .social-links a{

    display: inline-block;
    height: 40px;
    width: 40px;
    background-color: rgba(255,255,255,0.2);
    margin:0 10px 10px 0;
    text-align: center;
    line-height: 40px;
    border-radius: 50%;
    color: #ffffff;
    transition: all 0.5s ease;
}

.footer-col .social-links a:hover{

    color: #24262b;
    background-color: #ffffff;
}
```

```
.button {  
    float: left;  
    margin: 0 5px 0 0;  
    width: 100px;  
    height: 40px;  
    position: relative;  
}  
  
.button label,  
.button input {  
    display: block;  
    position: absolute;  
    top: 0;  
    left: 0;  
    right: 0;  
    bottom: 0;  
}  
  
.button input[type="radio"] {  
    opacity: 0.011;  
    z-index: 100;  
}  
  
.button input[type="radio"]:checked + label {  
    background: #24a0ed;  
    border-radius: 4px;  
}  
.button label {  
    cursor: pointer;
```

```
z-index: 90;  
line-height: 1.8em;  
}  
  
table{  
width:100%;  
}  
td{  
padding:10px;  
}  
  
button{  
padding:10px;  
}  
  
body { margin: 1em; }  
p{  
font-size: 20px;  
}  
#submit{  
font-size: 20px;  
text-align: center;  
background-color: #24a0ed;  
display:block;  
margin:0 auto;  
}  
footer{  
background: #24262b;  
color: #ffffff;
```

```

width:100%;

padding:10px;

}

#mchart

{
font-family: "Times New Roman", Times, serif;
color:#2D2D0E;
}

table{border-collapse:collapse;}

th, td {

border-radius: 10px;

}

tr:nth-child(odd) {
background-color: #D6EEEE;

}

tr:hover {background-color: #f7e2c8; }

</style>

</head>

<body>

<!-- Preload the Whole Page -->

<div id="preloader">

<div id="loading-animation">&nbsp;</div>

</div>

<!-- Navbar -->

<header class="header">

```

```

<nav class="navbar navbar-default navbar-static-
top">

    <div class="container">

        <!-- Brand and toggle get grouped for better
mobile display -->

        <div class="navbar-header">

            <button type="button" class="navbar-toggle
collapsed" data-toggle="collapse" data-
target="#navigation-nav">

                <span class="sr-only">Toggle
navigation</span>

                <span class="icon-bar"></span>
                <span class="icon-bar"></span>
                <span class="icon-bar"></span>

            </button>

            <a class="navbar-brand" href="#"></a>

        </div>

        <!-- Collect the nav links, forms, and other
content for toggling -->

        <div class="collapse navbar-collapse"
id="navigation-nav">

            <ul class="nav navbar-nav navbar-right">

                <li class="active"><a class="section-
scroll" href="#wrapper">Home</a></li>

                <li><a href="#landing-
offer">About</a></li>

                <li><a href="#features-
section">Services</a></li>

                <li><a href="form.html">Book
Appointment</a></li>

                <li><a href="mchart.html">M-chart</a></li>


```

```

<li><a href="consult.html">Consult</a></li>
<li><a href="#contact-section">Contact</a></li>
</ul>
</div><!-- /.navbar-collapse -->
</div><!-- /.container -->
</nav>
</header>
<!-- End Navbar -->
<!-- form fields -->
<form action="contact.php"
method="post" name="contactform" id="contactform"
class="animated out" data-animation="fadeInUp" data-
delay="0">

<fieldset>
<div class="form-group">
<input class="form-control br-b"
type="text" name="name" id="name" placeholder="Name">
</div>

<div class="form-group">
<input class="form-control br-b"
type="text" name="email" id="email"
placeholder="Email">
</div>

<div class="form-group">
<textarea class="form-control br-
b" name="message" id="message"
placeholder="Message..."></textarea>
</div>
</fieldset>
```

```

        <!-- submit button -->
        <div class="form-group">
            <input type="submit" name="submit"
value="Send message" id="submit" class="btn btn-sm btn-
dark">
        </div>
        <div id="alert"></div>
    </form>
<!-- Footer
=====
-->
<footer class="footer">
    <div class="container">
        <div class="row">
            <div class="footer-col" >
                <h6>Address</h6>
                <p class="text-justify"
style="color:#bbbbbb;">New Shastri Nagar, Meter
Factory Road,<br> Erragadda , Hyderabad -500018.</p>
            </div>
            <div class="footer-col" >
                <h6>Contact</h6>
                <ul style="color:#ffffff;">
                    <li>+919849559676</li>
                    <li>info@autism.school</li>
                </ul>
            </div>
            <div class="footer-col">
                <h6>Services</h6>
                <ul class="footer-links">

```

```

        <li><a href="#">Speech-Language
Therapy</a></li>

        <li><a href="#">Physical Therapy</a></li>

        <li><a href="#">Music Therapy</a></li>

        <li><a href="#">Occupational
Therapy</a></li>

        <li><a href="#">Special
Education</a></li>

        <li><a href="#">Adaptive Physical
Education</a></li>

    </ul>

</div>

<div class="footer-col">

    <h6>Quick Links</h6>

    <ul class="footer-links">

        <li><a href="#">Home</a></li>

        <li><a href="#">Enquiry</a></li>

        <li><a href="#">Consult</a></li>

        <li><a href="#">Contact Us</a></li>

    </ul>

</div>

</div>

</div>

</div>

</div>

</div>

<!-- End footer -->

</div> <!-- End wrapper -->

<div class="back-to-top">

    <i class="fa fa-angle-up fa-3x"></i>

</div> <!-- end back-to-top -->

```

```
<!-- JS libraries and scripts -->

<script src="assets/js/jquery-
1.11.3.min.js"></script>

<script src="assets/js/bootstrap.min.js"></script>

<script src="assets/js/bootstrap-hover-
dropdown.min.js"></script>

<script
src="assets/js/jquery.appear.min.js"></script>

<script
src="assets/js/jquery.bxslider.min.js"></script>

<script
src="assets/js/jquery.owl.carousel.min.js"></script>

<script src="assets/js/jquery.countTo.js"></script>

<script
src="assets/js/jquery.easing.1.3.js"></script>

<script
src="assets/js/jquery.imagesloaded.min.js"></script>

<script src="assets/js/jquery.isotope.js"></script>

<script
src="assets/js/jquery.placeholder.js"></script>

<script
src="assets/js/jquery.smoothscroll.js"></script>

<script
src="assets/js/jquery.stellar.min.js"></script>

<script src="assets/js/jquery.waypoints.js"></script>

<script src="assets/js/jquery.fitvids.js"></script>

<script src="assets/js/jquery.magnific-
popup.min.js"></script>

<script
src="assets/js/jquery.ajaxchimp.min.js"></script>

<script src="assets/js/jquery.countdown.js"></script>

<script src="assets/js/jquery.navbar-
scroll.js"></script>
```

```
<script  
src="http://maps.google.com/maps/api/js?sensor=false"><  
/script>  
  
<script src="assets/js/jquery.gmaps.js"></script>  
  
<script src="assets/js/main.js"></script>  
  
</body>  
  
</html>
```