

Happy Trails Daycare

Where every step leads to bright futures.
Nurturing little hearts with care, joy, and adventure.

[Get Started](#)

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Innovative Learning

Engaging educational programs tailored for each child.



Safe & Caring

A secure, loving environment where children thrive.



Community Spirit

Join a vibrant community that fosters growth and friendship.

About Us

At Happy Trails Daycare, we foster creativity and growth in a safe, nurturing environment. Our mission is to guide every child on a journey of learning and discovery.

Testimonials

"Happy Trails Daycare has been a blessing for our family. Our child loves it there!"

— Jane Doe, Parent

"The caring staff and innovative programs make this daycare exceptional."

— John Smith, Educator

Gallery



Upcoming Events for Children



Happy Trails Daycare



Happy Trails Daycare

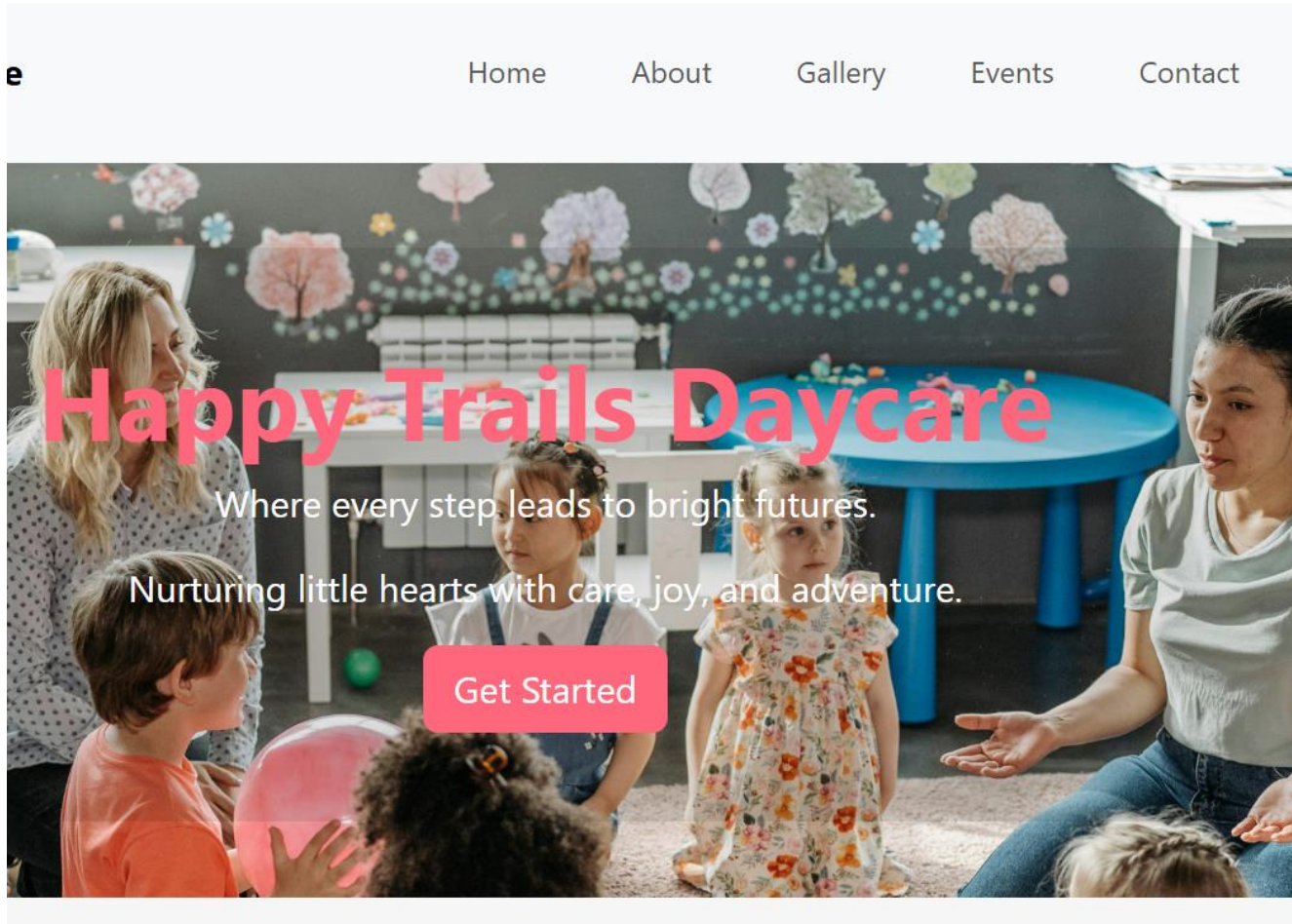
Where every step leads to bright futures.
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[Get Started](#)

Day Care Management System

Shao Hang Li, Ritu Arora,
Qi He

Purpose of the System



- The goal is to **digitize** and **streamline** key daycare tasks such as:
- **Recording daily attendance** of children
- **Tracking child profiles** and updates
- **Improving communication** between staff and guardians
- Ensuring compliance and accountability

Secure Login & Registration System

Register

Name:

Please enter your name.

Email:

Please enter a valid email.

Password:

Please enter a password.

Role:

Parent

Profile Photo (optional):

Choose File | No file chosen

☐

I'm not a robot



Register

Forgot Password

Enter your registered email:

Reset Password

mail:

assword:

Login

Password updated successfully. You may now log in.

Email:

Password:

Login

[Forgot your password?](#)

Login

Access denied. Please log in with appropriate credentials.

Email:

Password:

Login

[Forgot your password?](#)

Admin Dashboard

Admin Dashboard

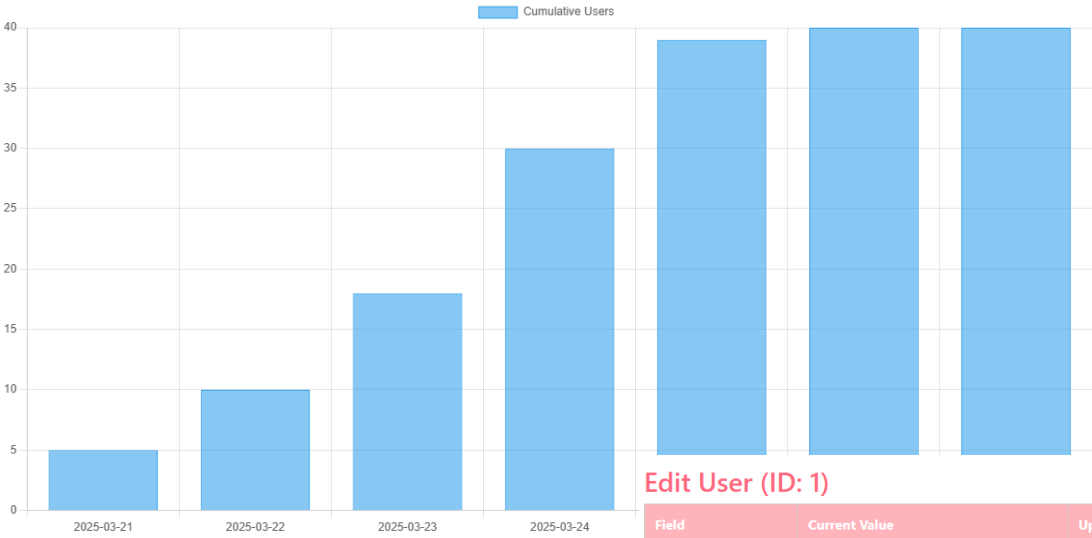
Welcome, Admin One!

By far, 23 children and 4 educators have joined our community!

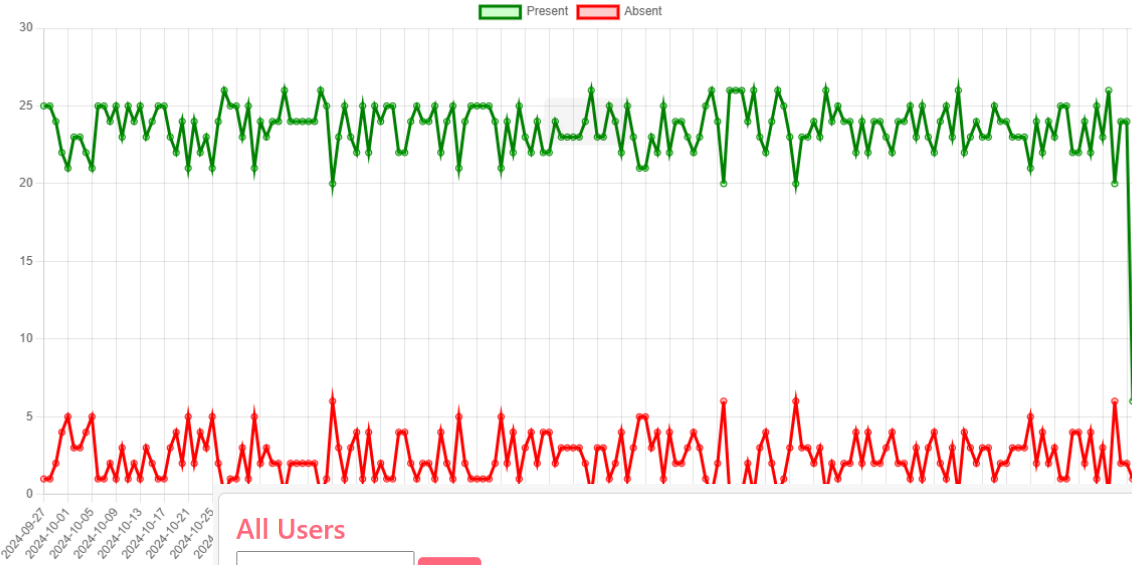
Manage Users

Assign Educators

Cumulative User Growth (Last 7 Days)



Attendance Trend (Last 6 Months)



All Users

Search by Email

Search

ID	Name	Email	Role	isAdmin	Actions
1	Jakarta	jakarta@gmail.com	parent	0	Edit
2	Rita	rita@gmail.com	parent	0	Edit
3	Anita	aniita@gmail.com	parent	0	Edit
4	Natasha	natasha@gmail.com	parent	0	Edit
5	Ananya	ananya@gmail.com	parent	0	Edit
6	Indra	indra@gmail.com	parent	0	Edit
7	Indrani	indrani@gmail.com	parent	0	Edit
8	Rani	rani@gmail.com	parent	0	Edit
9	Kriti	kriti@gmail.com	educator	0	Edit

Educator & Child Assignment

Search by Child Name:

Search

Clear

Search by Educator Name:

Search

Clear

Unassigned Children

Child ID	Child Name	Date of Birth	Reassign Educator
25	Child3	2025-03-22	-- Select Educator -- Update
22	Joseph	2010-05-19	-- Select Educator -- Update

Edit User (ID: 1)

Field	Current Value	Update
Name	Jakarta	New Name Update
Email	jakarta@gmail.com	New Email Update
Role	parent	Parent Update
Password	*****	New Password Update
isAdmin	0	

Delete User

Educator Dashboard

- View/Update Profile
- Mark Today's Attendance
- Child Profiles

Educator Dashboard

Welcome, Kriti!

Your Classes / Child Profiles

Mark Attendance for Today

Today's Date: 2025-03-27

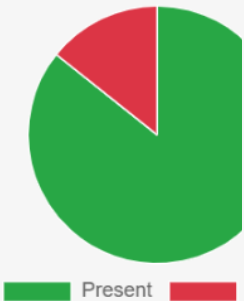
You can mark today's attendance below. If attendance has already been recorded, it will be updated.

Child Name	Present
Alice	<input type="radio"/>
Bob	<input checked="" type="radio"/>
Charlie	<input checked="" type="radio"/>
Daisy	<input checked="" type="radio"/>
Ethan	<input checked="" type="radio"/>
Fiona	<input checked="" type="radio"/>
George	<input checked="" type="radio"/>

Submit Attendance

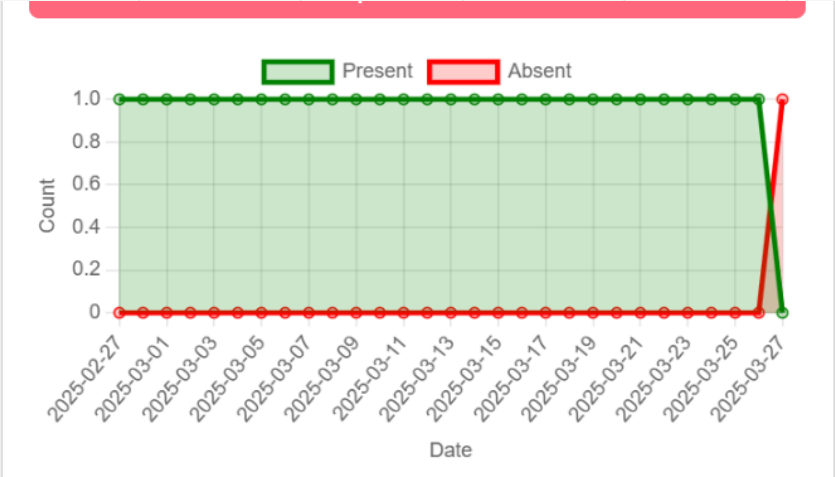
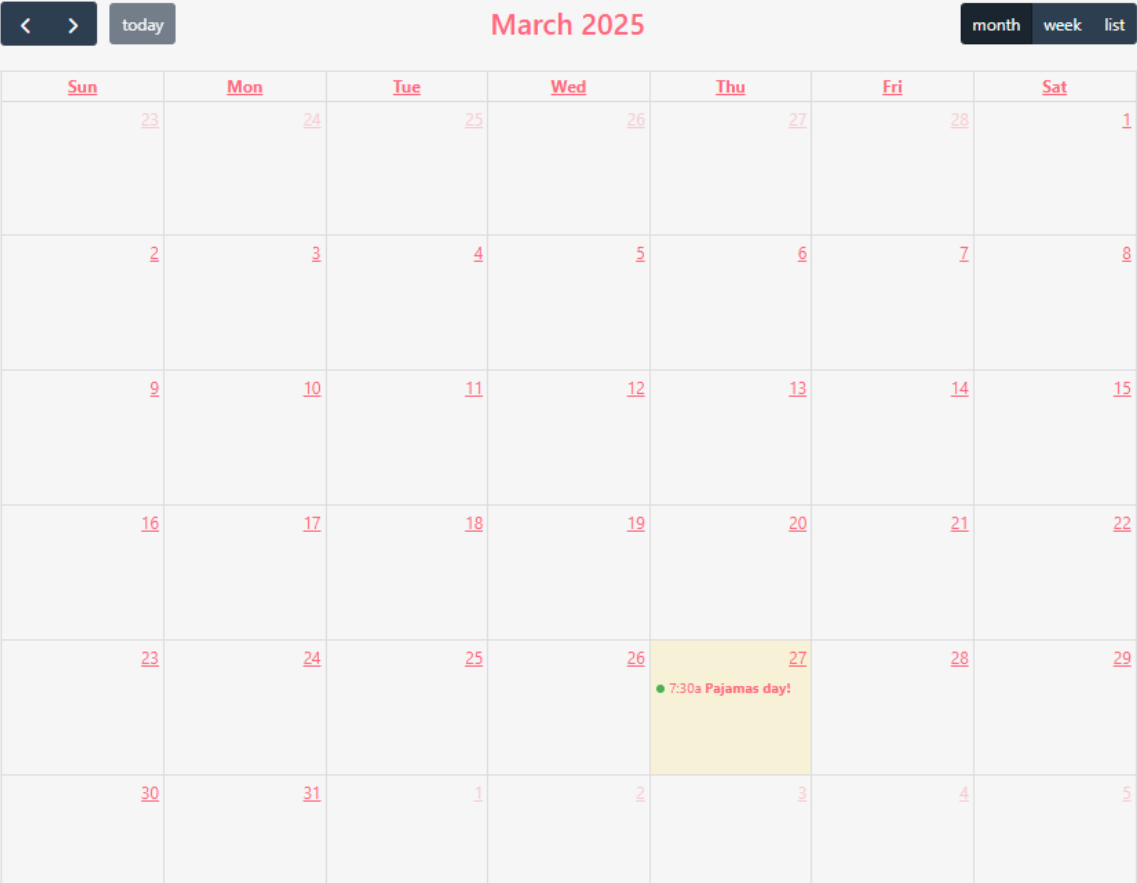
Today's Attendance Summary

Attendance for 2025-03-27



Manage Events

Create EventView Calendar



Parent Dashboard

Welcome, Kriti!

Quick Actions

 [Registration Payment](#)

 [Manage Children](#)

Logout

Your Children



Tina



Child2

2022-03-16



Child3

Date of Birth: 2025-03-22

Upcoming Events

No upcoming events scheduled.

Registration Payment Status

Registration payment completed on 2025-03-26 for 3 child(ren).
Transaction ID: cs_test_a14ndj90GW8c1e7DdQPfeyEuM8KlpOf99t6Up0VWg1XVZNQT5S4zQqWu5x

Payment History

Date	Amount	Children	Status	Transaction ID
Mar 26, 2025 14:26	\$300.00	3	COMPLETED	cs_test_a14ndj90GW8c1e7DdQPfeyEuM8KlpOf99t6Up

Payment Successful Thank you for your payment!

Amount paid: \$300.00

Number of children: 3

Date: 2025-03-27 18:46:04

Transaction ID: cs_test_a1U41mrh7OX7svR7pCxiiKrWsZP3mjuKjV2x5o5DaF05C3taqo7Wsl6tPV

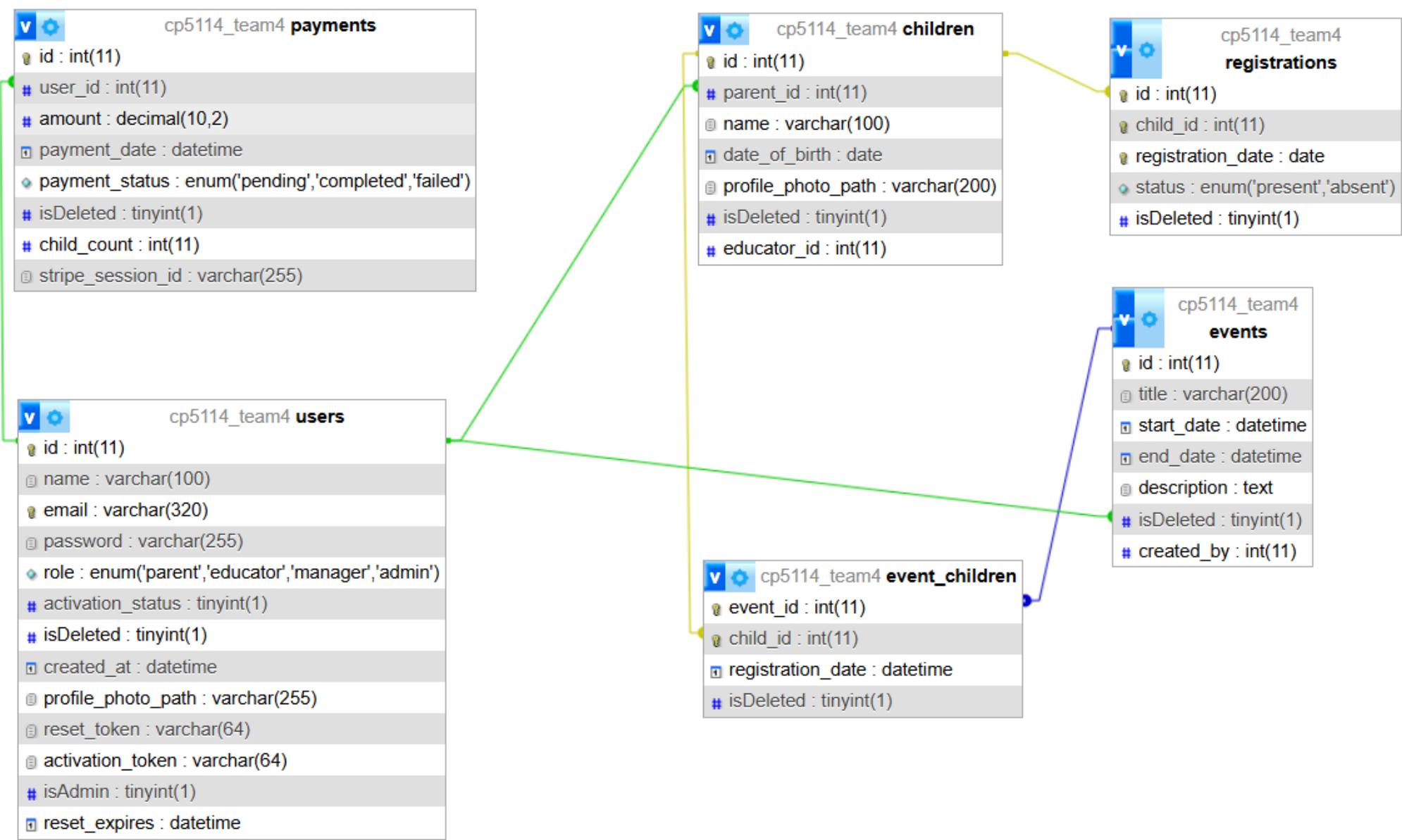
Your registration is now complete. A receipt has been sent to your email address.

[Go to Dashboard](#)

Who did what

- Secured role-based login and registration system
 - Ritu Arora
- Admin dashboard
 - Qi He
 - Shao Hang (implemented calendar to manage events)
- Educator dashboard
 - Ritu Arora
 - Shao Hang (implemented calendar to manage events)
- Parent dashboard
 - Qi He
 - Shao Hang (implemented Events View/Create feature)
 - Shao Hang (integrated Stripe Payment API)
- UI design & project planning
 - Ritu Arora

Database Design



Cloudflare Integration: How It Works

- You point a subdomain (e.g. `cdn.team4.fsd13.ca`) to Cloudflare
- Cloudflare caches & serves `/uploads/*` content globally
- Update file paths:

`<!-- Before -->`

``

`<!-- After -->`

``

Cloudflare Integration: What & Why

Why Use Cloudflare?

Cloudflare acts as a **reverse proxy** and **CDN**, offering:

- ✓ Faster load times (via caching & global edge servers)
- ✓ Enhanced security (DDoS protection, SSL, firewall)
- ✓ DNS management with real-time updates
- ✓ Reduced bandwidth usage

◆ Main Domain & Subdomains:

- All A records for: amir, anatar, dang, david, dylan, evan, gregory, gregory2, haitao, khadis, louis, qi, rima, ritu, shao, team1, team2, team3, team4, and fsd13.ca
 - ✓ All pointing to 69.16.227.64
 - ✓ Proxy is enabled (good for caching/CDN)

◆ Essential Services:

- cdn.team4 → ✓ CNAME set correctly
- mail, ftp, webmail, cpanel, etc. → ✓ Present
- www → ✓ CNAME to fsd13.ca
- MX → ✓ fsd13.ca with priority 0 (for email)

◆ TXT Records:

- SPF → ✓ v=spf1 a mx ip4:69.16.227.64 ~all
- _acme-challenge records → ✓ Valid and intact
- _cpanel-dcv-test-record → ✓ Included
- CalDAV/CardDAV TXT paths → ✓ Present


◆ SRV Records:

- All related to email discovery, caldav, carddav → ✓ DNS only (correct behavior)

How We Set It Up

- Create Cloudflare Account
 - Add your domain (e.g., fsd13.ca)
- Import DNS Records
 - Cloudflare pulls existing records automatically
- Update Nameservers
 - At your domain registrar (e.g., **Domain Robot Enterprises Inc.**), replace the old nameservers (e.g., ns14.datona-1.com, ns15.datona-1.com) with Cloudflare's (e.g., bowen.ns.cloudflare.com, dora.ns.cloudflare.com)
- DNS Propagation Begins
 - Takes up to 24–48 hours globally
 - Use tools like [Google Dig](#) to confirm
- Traffic Routed via Cloudflare
 - Static files (e.g., images, CSS) now served from nearest edge server
 - Real-time control via Cloudflare dashboard (SSL, caching, security rules)

Records we found: 11 A 3 CNAME 1 MX 2 NS 5 SRV 9 TXT

 Our scan may have missed uncommon records or custom subdomains. Compare the list below to your current DNS provider (most likely your registrar) and add any missing records. Pay close attention to all records on the zone apex, records of the type A, AAAA, and CNAME and records needed for email like MX, SPF, DMARC, DKIM, and MTA-STS.

Your traffic is almost ready to proxy

 How proxying works

Your DNS records tell Cloudflare where your web content is hosted, so we can hide the origin and proxy your web traffic.




Proxied: HTTP traffic goes through the Cloudflare network. Required for services like caching, smart routing, and Web Application Firewall.



DNS only: HTTP traffic bypasses Cloudflare and goes directly to the origin, but DNS resolution still benefits from our fast and secure network. A gray cloud means proxying is off, no cloud means the record is not eligible for proxying.

Payment with Stripe PHP/API

- composer require stripe/stripe-php (More convenient if you're using PHP)

 **Happy Trails Daycare**

HomeEvents CalendarDashboardLogout

Welcome, Nina!

Quick Actions

[Registration Payment](#)

[Manage Children](#)

Logout

Your Children

Tina

Date of Birth: 2022-02-09

Registration Payment Status

Registration payment pending. [Complete your registration payment](#)

Payment History

No payment history found.

Registration Payment

Daycare Registration Fees

Registration Fee Per Child: \$100.00

-1+

Total Amount\$100.00


The registration fee covers account setup and program enrollment for each child.

Proceed to Payment

← Daycare System TEST MODE

Daycare Registration Fee

CA\$100.00

Pay with  link

Klarna

Or pay another way

Email

nina@hotmail.com

Payment method

☒ Card

Card information

4242 4242 4242 4242

03 / 29100

Cardholder name

Nina Lila

Country or region

Canada

J4Z 0X0

☐ Affirm

☐ Securely save my information for 1-click checkout

Pay faster on Daycare System and everywhere Link is accepted.

Pay

Payment Successful

Thank you for your payment!

Amount paid: \$100.00

Number of children: 1

Date: 2025-03-28 10:19:00

Transaction ID: cs_test_a1JvY6UJ6WNd9xjzw1kHM7qfeN7D5cX3HIgPtZEZAtv218jSyXpn3FsTz7

Your registration is now complete.

[Go to Dashboard](#)

Stripe personal dashboard

Transactions

Recommendation Enhance collaboration by inviting your teammates to Stripe. Assign roles, customize permissions, and more. [View team settings](#) X

All29

Succeeded28

Refunded0

Disputed0

Failed1

Uncaptured0

Date and time

Amount

Currency

Status

Payment method

More filters

Export

Edit columns

<input type="checkbox"/>	Amount		Payment method	Description	Customer	Date	Refunded date	Decline reason	
<input type="checkbox"/>	\$300.00	CAD	Succeeded ✓	VISA **** 4242	pi_3R7XHwKXvVJy9vuK1YV1rHeh shao@hotmail.com	Mar 28, 3:25 AM	—	—	...
<input type="checkbox"/>	\$300.00	CAD	Succeeded ✓	VISA **** 4242	pi_3R7ORXKXvVJy9vuK05IAmEZx kriti2@gmail.com	Mar 27, 5:58 PM	—	—	...
<input type="checkbox"/>	\$300.00	CAD	Succeeded ✓	VISA **** 4242	pi_3R7LRFKXvVJy9vuK1eqFqA6n kriti@gmail.com	Mar 27, 2:46 PM	—	—	...
<input type="checkbox"/>	\$300.00	CAD	Succeeded ✓	VISA **** 4242	pi_3R6uuNKXvVJy9vuK0Ad8oBy7 123@gmail.com	Mar 26, 10:26 AM	—	—	...
<input type="checkbox"/>	\$1,000.00	CAD	Succeeded ✓	Affirm	pi_3R6kVcKXvVJy9vuK1HYenZV4 shao@hotmail.com	Mar 25, 11:20 PM	—	—	...
<input type="checkbox"/>	\$500.00	CAD	Succeeded ✓	Affirm	pi_3R6h1cKXvVJy9vuK1X8fo2jx shao@hotmail.com	Mar 25, 7:36 PM	—	—	...
<input type="checkbox"/>	\$100.00	CAD	Succeeded ✓	Affirm	pi_3R6gxDKXvVJy9vuK0m1F2Uha a@hotmail.com	Mar 25, 7:32 PM	—	—	...

- View all your transactions

- Different kinds of analytics (payout, etc.)

New business

Home

Balances

Transactions

Customers

Product catalog

Shortcuts

Disputes

Products

Payments

Disputes

Radar

Payment Links

Terminal

Billing

Reporting

More

Search

Balances

OverviewAll activityPayouts

Currency

Type

Created

Available on

Amount	Fees	Total	Type	Description	Created	Available on
\$300.00	-\$11.40	\$288.60	Charge	ch_3R7XHwKXvVJy9vuK1KJRSqQL	Mar 28	Apr 4
\$300.00	-\$11.40	\$288.60	Charge	ch_3R7ORXKXvVJy9vuK0rnt4EzS	Mar 27	Apr 3
\$300.00	-\$11.40	\$288.60	Charge	ch_3R7LRFKXvVJy9vuK1fHSONyl	Mar 27	Apr 3
\$300.00	-\$11.40	\$288.60	Charge	ch_3R6uuNKXvVJy9vuK0tkuca9N	Mar 26	Apr 2
\$1,000.00	-\$60.30	\$939.70	Payment	py_3R6kVcKXvVJy9vuK1HxB3zym	Mar 26	Apr 2
\$500.00	-\$30.30	\$469.70	Payment	py_3R6h1cKXvVJy9vuK1vVuRxWm	Mar 25	Apr 1
\$100.00	-\$6.30	\$93.70	Payment	py_3R6gxDKXvVJy9vuK0sgtPmlA	Mar 25	Apr 1
\$100.00	-\$6.30	\$93.70	Payment	py_3R6guZKXvVJy9vuK0QrjlsB	Mar 25	Apr 1
\$300.00	-\$18.30	\$281.70	Payment	py_3R6grzKXvVJy9vuK01ctJU85	Mar 25	Apr 1
\$100.00	-\$6.30	\$93.70	Payment	py_3R6gP8KXvVJy9vuK1ZjyGSoj	Mar 25	Apr 1

Test mode

Grid

Help

Notifications


Settings

+

Export

Analyze

FullCalendar for events

 **Happy Trails Daycare**

HomeEvents CalendarManage EventsDashboardLogout

Manage Events

Create EventView Calendar

<>todayMarch 2025monthweekdaylist

Sun	Mon	Tue	Wed	Thu	Fri	Sat
23	24	25	26	27	28	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30 • 8:40a Pajama day!	31	1	2	3	4	5

Your Events

You haven't created any events yet.

Event Calendar

Manage Events

<>todayMarch 2025monthweekdaylist

March 28, 2025Friday

9:00am - 2:30pm • Presentation Day!!!

March 30, 2025Sunday

8:40am - 3:40pm • Pajama day!

Upcoming Events

Pajama day!

Kids will be wearing pajamas during this day. If possible, please bring some snacks and a pillow for your child. The blankets will be provided by the school.

8:40 AM - 3:40 PM

Mar 30, 2025

Happy Trails Add New Event

Event Title*

Event title is required

Start Date and Time*

mm/dd/yyyy --:-- --

Please select a valid start date and time

End Date and Time*

mm/dd/yyyy --:-- --

Please select a valid end date and time

Description

Cancel Create Event

- Create/Edit events

- Validation to successfully create an event

- Parents dashboard

Vs

- Educator/Admin dashboard

Challenges/Teaching

```
// Create Stripe session
\Stripe\Stripe::setApiKey($_ENV['STRIPE_SECRET_KEY']);
$checkout_session = \Stripe\Checkout\Session::create([
    "mode" => "payment",
    "success_url" => "https://" . $_SERVER['HTTP_HOST'] . "/payment-success?session_id={CHECKOUT_SESSION_ID}",
    "cancel_url" => "https://" . $_SERVER['HTTP_HOST'] . "/payment?canceled=true",
    "line_items" => $paymentDetails['lineItems'],
```

```
// Create payment record with session ID
DB::insert('payments', [
    'user_id' => $userId,
    'amount' => $paymentDetails['totalAmount'],
    'payment_date' => date('Y-m-d H:i:s'),
    'payment_status' => 'pending',
    'child_count' => $inputChildrenCount,
    'stripe_session_id' => $checkout_session->id
]);
```

```
// Verify with Stripe
\Stripe\Stripe::setApiKey($_ENV['STRIPE_SECRET_KEY']);
$session = \Stripe\Checkout\Session::retrieve($session_id);

// Get the payment record using session ID
$payment = DB::queryFirstRow("SELECT * FROM payments
    WHERE stripe_session_id = %s
    AND user_id = %i
    AND isDeleted = 0",
    $session_id, $userId
);
```


Fullcalendar.io

Standard Bundle

First, obtain the standard `fullcalendar` bundle in one of the following ways:

- **Download:** `fullcalendar-6.1.15.zip`
- **CDN:** `jsdelivr`
- **NPM:** `npm install fullcalendar`

Then, write the following initialization code:

```
<!DOCTYPE html>
<html lang='en'>
  <head>
    <meta charset='utf-8' />
    <script src='https://cdn.jsdelivr.net/npm/fullcalendar@6.1.15/index.global.min.js'></script>
    <script>

      document.addEventListener('DOMContentLoaded', function() {
        var calendarEl = document.getElementById('calendar');
        var calendar = new FullCalendar.Calendar(calendarEl, {
          initialView: 'dayGridMonth'
        });
        calendar.render();
      });

    </script>
  </head>
  <body>
    <div id='calendar'></div>
  </body>
</html>
```

```
// JSON API for fetching events (for FullCalendar)
$app->get('/events/fetch', function (Request $request, Response $response) {
    $events = DB::query(
        "SELECT * FROM events
        WHERE isDeleted = 0
        ORDER BY start_date"
    );

    $formattedEvents = array_map(function($event) {
        return [
            'id' => $event['id'],
            'title' => $event['title'],
            'start' => $event['start_date'],
            'end' => $event['end_date'],
            'description' => $event['description'] ?? ''
        ];
    }, $events);

    $responseData = json_encode($formattedEvents);
    $response->getBody()->write($responseData);
    return $response->withHeader('Content-Type', 'application/json');
});
```

23	24	25	26	27	28 ● 9a Presentation Day!!	29
30 ● 8:40a Pajama day!	31	1	2	3	4	5

Upcoming Events

Pajama day!

Mar 30, 2025

Kids will be wearing pajamas during this day. If possible, please bring some snacks and a pillow for your child. The blankets will be provided by the school.

8:40 AM - 3:40 PM

FullCalendar.io

```
// Get upcoming events
$today = date('Y-m-d H:i:s');
$upcomingEvents = DB::query("SELECT * FROM events
WHERE DATE(start_date) >= %s
AND isDeleted = 0
ORDER BY start_date ASC
LIMIT 10", $today);

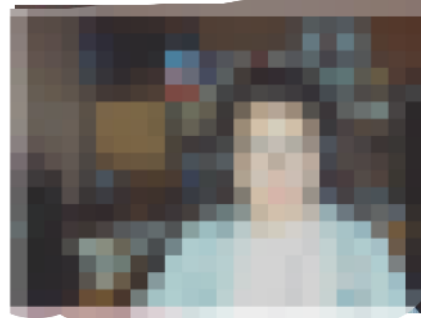
// Get upcoming events
$today = date('Y-m-d');
$upcomingEvents = DB::query("SELECT * FROM events
WHERE DATE(start_date) >= %s
AND isDeleted = 0
ORDER BY start_date ASC
LIMIT 10", $today);
```



Image Capture Feature

- HTML5's
getUserMedia API
- Live Video Stream
- Optional Activation
- Base64 Encoding
- Sanitizing and
Renaming the File
- Facial Recognition in
the Future!

Or use Webcam



Capture Photo

Close Webcam

```
// Capture photo from webcam
document.getElementById('capture-btn').addEventListener('click', function(){
  const video = document.getElementById('webcam');
  const canvas = document.getElementById('captured-canvas');
  const context = canvas.getContext('2d');
  context.drawImage(video, 0, 0, canvas.width, canvas.height);
  canvas.style.display = 'block';
  video.style.display = 'none';
  document.getElementById('captured_image').value = canvas.toDataURL('image/png');
  document.getElementById('capture-btn').style.display = 'none';
  document.getElementById('reset-btn').style.display = 'inline-block';
});
```

```
$capturedImage = trim(string: $data['captured_image'] ?? '');
if (!empty($capturedImage)) {
  // Expected format: "data:image/png;base64,...."
  $parts = explode(separator: ',', string: $capturedImage);
  if (count(value: $parts) === 2) {
    $imageData = base64_decode(string: $parts[1]);
    // Sanitize child's name: convert to lowercase and replace spaces with underscores
    $sanitizedChildName = strtolower(string: str_replace(search: ' ', replace: '_', subject: $name));
    // Create a unique filename using the child's sanitized name and the current timestamp
    $filename = $sanitizedChildName . '-' . time() . '.png';
    // Save the file to the uploads directory
    file_put_contents(filename: __DIR__ . '/../uploads/' . $filename, data: $imageData);
    // Set the photo path to be saved in the database
    $photoPath = $filename;
  }
}
```

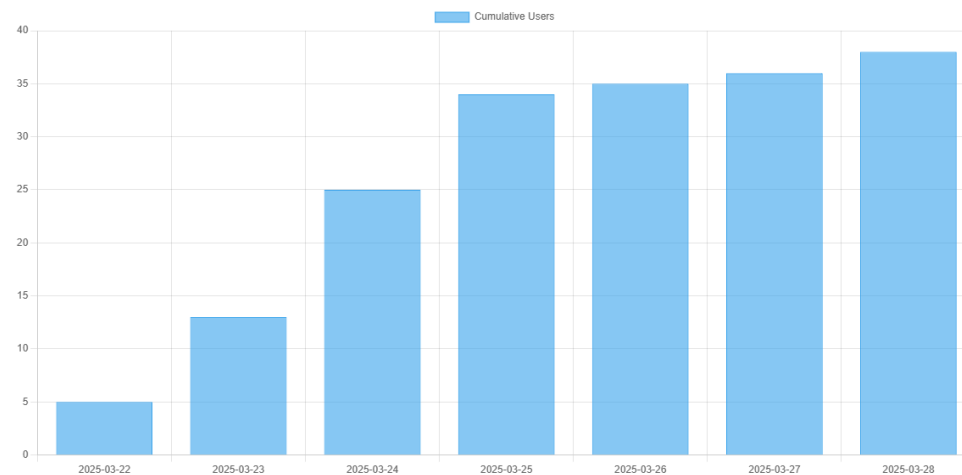
Data Visualization

- Chart.js library
- Pass PHP-generated arrays directly to the JS code using Twig's `json_encode`.
- dynamic and interactive

```
// Bar Chart for Cumulative User Growth
const cumulativeDates = [{ cumulativeDates|json_encode|raw }];
const cumulativeCounts = [{ cumulativeCounts|json_encode|raw }];

const ctxUser = document.getElementById('userGrowthChart').getContext('2d');
new Chart(ctxUser, {
  type: 'bar',
  data: {
    labels: cumulativeDates,
    datasets: [{
      label: 'Cumulative Users',
      data: cumulativeCounts,
      backgroundColor: 'rgba(54, 162, 235, 0.6)',
      borderColor: 'rgba(54, 162, 235, 1)',
      borderWidth: 1
    }]
  },
  options: {
    scales: {
      y: { beginAtZero: true }
    }
  }
});
```

Cumulative User Growth (Last 7 Days)



Flexible Data Retrieval

- LIKE operator
- % wild card
- Ensure soft deleted case
- More forgiving experience

Educator & Child Assignment

Search by Child Name:

Search by Educator Name:

Search Results for Children matching "j"

Child ID	Child Name	Date of Birth	Current Educator	Reassign Educator
10	Julia	2018-09-22	Educator One	<div>Educator One</div> <input type="button" value="Update"/>
20	Tina Makhijji	2018-04-16	Educator Two	<div>Educator Two</div> <input type="button" value="Update"/>

```
if ($searchChild !== '') {
    $mode = 'childSearch';
    // Query children by name (partial match) and ensure child is not soft-deleted
    $childSearchResults = DB::query(query: "
        SELECT c.*, u.name AS educator_name, u.id AS current_educator_id
        FROM children c
        LEFT JOIN users u ON c.educator_id = u.id
        WHERE c.name LIKE %s AND c.isDeleted = 0
        ORDER BY c.name ASC
    ", parameters: ['%' . $searchChild . '%']);
} elseif ($searchEducator !== '') {
    $mode = 'educatorSearch';
    // Query educators by name (partial match)
    $educators = DB::query(query: "
        SELECT id, name
        FROM users
        WHERE role='educator' AND name LIKE %s
        ORDER BY name ASC
    ", parameters: ['%' . $searchEducator . '%']);
    foreach ($educators as $ed) {
        $children = DB::query(query: "
            SELECT id, name, date_of_birth, educator_id
            FROM children
            WHERE educator_id = %i AND isDeleted = 0
            ORDER BY name ASC
        ", parameters: [$ed['id']]);
        $educatorData[] = ['educator' => $ed, 'children' => $children];
    }
}
```

Future work

Social Login Integration (Google/Facebook)

- OAuth-based login flow
- Google/Facebook login setup pending for **Parent Dashboard**
- Will improve convenience & reduce login friction

Multi-Language Support

- Enable language switching (e.g., English/French)
- Make the system accessible to a broader user base and comply with bilingual requirements.

Summary

- **User Registration & Login**

Role-based signup with email activation, profile photo upload, password reset, and secure login.

- **Role-Based Access Control**

Different dashboards and features for Parents, Educators, and Managers.

- **Child & Attendance Management**

Educators can view assigned children, mark daily attendance, and track attendance history.

- **Manager Features**

Overview dashboard with key stats, educator-child assignments, and event scheduling (partially done).

- **Security & Enhancements**

ReCaptcha protection, mobile-responsive design, dynamic attendance charts.

Thank you :)



Back up

Email Activation

```
// Store activation token in DB
DB::update(table_name: 'users', data: ['activation_token' => $activation_token], parameters: "email=%s",
$email);

// Build activation link (adjust domain/port as needed)
$activation_link = "https://team4.fsd13.ca/activate?token=$activation_token";

// Clear form data on successful registration
unset($_SESSION['formData']);

if (sendActivationEmail($email, $name, $activation_link)) {
    $devLink = "<br><strong>Dev/Test:</strong> <a href='{$activation_link}' target='_blank'>Click here to
    activate</a>"; // remove for production
    $flash->addMessage('success', "Registration successful. Please check your email to activate your account.
    $devLink");
} else {
    $flash->addMessage('error', "Registered, but activation email failed to send.");
}

return $response->withHeader(name: 'Location', value: $router->urlFor(routeName: 'login'))->withStatus
(code: 302);
```

```
// Generate activation token
$activation_token = bin2hex(string: random_bytes(length: 32));
```

```
// Insert user record
DB::insert(table_name: 'users', data: [
    'name' => $name,
    'email' => $email,
    'password' => $hashedPassword,
    'role' => $role.
```

```
$name,
"Y-m-d H:i:s")
```

Email Activation

```
function sendActivationEmail($toEmail, $toName, $activationLink): bool
{
    $subject = 'Activate Your Account';
    $htmlBody = "Click the following link to activate your account: <a href='{$activationLink}'>Activate Account</a>";
    $altBody = "Copy and paste this link in your browser to activate your account: {$activationLink}";

    return sendEmail(toEmail: $toEmail, toName: $toName, subject: $subject, htmlBody: $htmlBody, altBody...$altBody);
}
```

Email Activation

To ensure **email deliverability** using our own domain:

e.g., noreply@team4.fsd13.ca

```
function sendEmail($toEmail, $toName, $subject, $htmlBody, $altBody): bool
{
    require_once __DIR__ . '/vendor/autoload.php';

    $env = $_ENV['APP_ENV'] ?? 'dev';
    $mail = new PHPMailer(exceptions: true);

    try {
        $mail->isSMTP();

        if ($env === 'prod') {
            $mail->Host      = $_ENV['MAIL_HOST_PROD'];
            $mail->Username  = $_ENV['MAIL_USERNAME_PROD'];
            $mail->Password  = $_ENV['MAIL_PASSWORD_PROD'];
            $mail->Port      = $_ENV['MAIL_PORT_PROD'];
            $mail->SMTPSecure = $_ENV['MAIL_ENCRYPTION_PROD'];
            $mail->setFrom(address: $_ENV['MAIL_FROM_EMAIL_PROD'], name: $_ENV['MAIL_FROM_NAME_PROD']);
        } else {
            $mail->Host      = $_ENV['MAIL_HOST'];
            $mail->Username  = $_ENV['MAIL_USERNAME'];

            $mail->SMTPAuth = true;
            $mail->addAddress(address: $toEmail, name: $toName);
            $mail->isHTML(isHtml: true);
            $mail->Subject  = $subject;
            $mail->Body      = $htmlBody;
            $mail->AltBody   = $altBody;

            $mail->send();
            return true;
        }
    } catch (Exception $e) {
        error_log(message: "Email could not be sent. Mailer Error: {$mail->ErrorInfo}");
        return false;
    }
}
```