

# **Product Requirements Document (PRD)**

## **HR & Field Activity Management System**

**Version:** 1.0

**Date:** November 30, 2025

**Technology Stack:** Laravel PHP (Full-Stack)

**Document Status:** Draft for Development

## **1. EXECUTIVE SUMMARY**

### **1.1 Product Overview**

A comprehensive HR and field activity management system designed for organizations with hybrid workforces (office and field staff). The system enforces location-based attendance tracking and integrates field activity management with project management systems.

### **1.2 Business Objectives**

- Ensure accurate time tracking with location verification
- Streamline field activity management (workshops and group sessions)
- Automate leave and absence management
- Provide seamless integration with external project management systems
- Enable real-time monitoring of planned vs. implemented activities

### **1.3 Target Users**

- **Field Workers:** Activity facilitators, trainers, social workers
- **Office Staff:** Administrative personnel, managers
- **HR Administrators:** System managers, HR personnel
- **Management:** Directors, supervisors, project managers

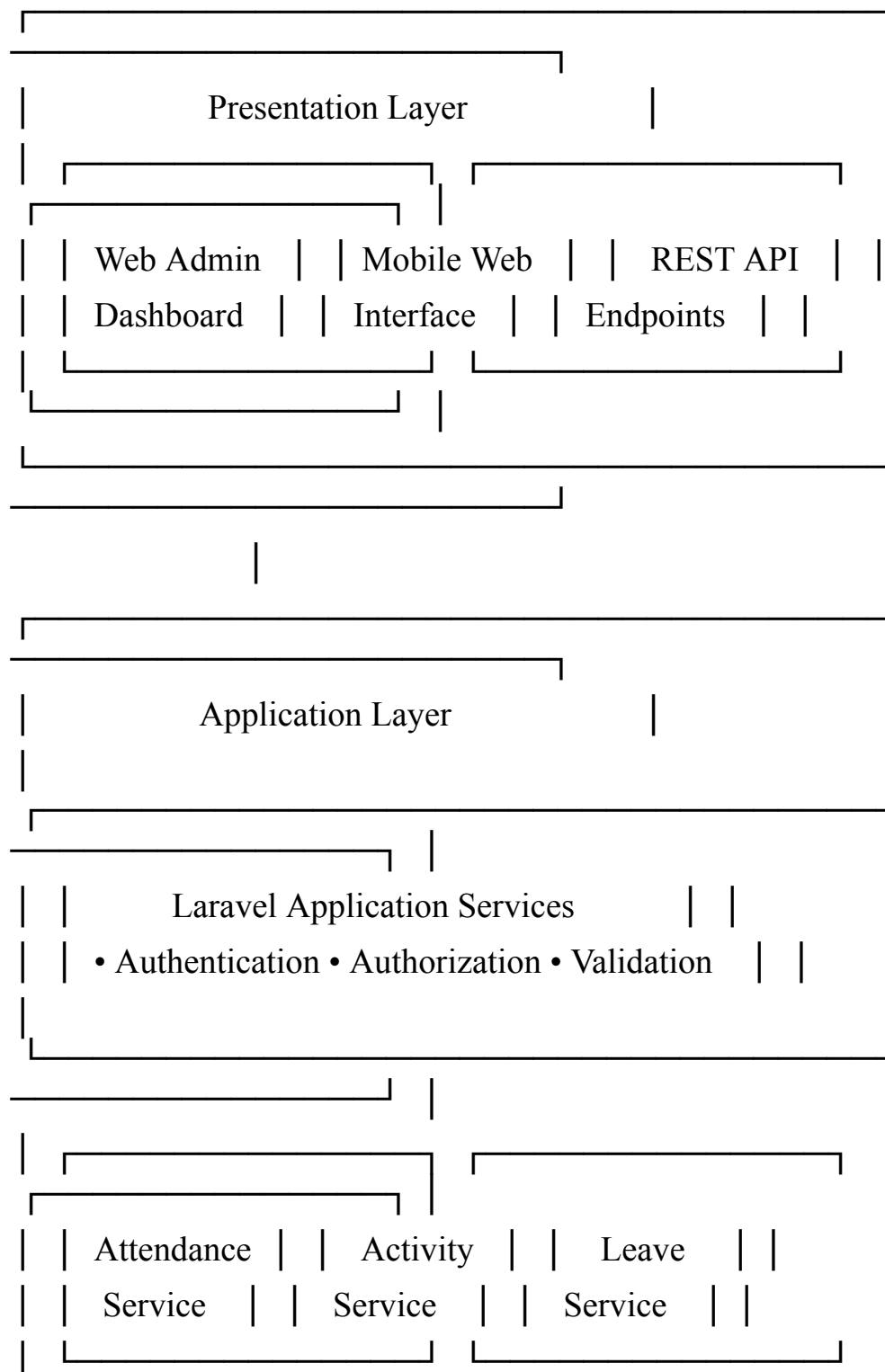
## **2. SYSTEM ARCHITECTURE**

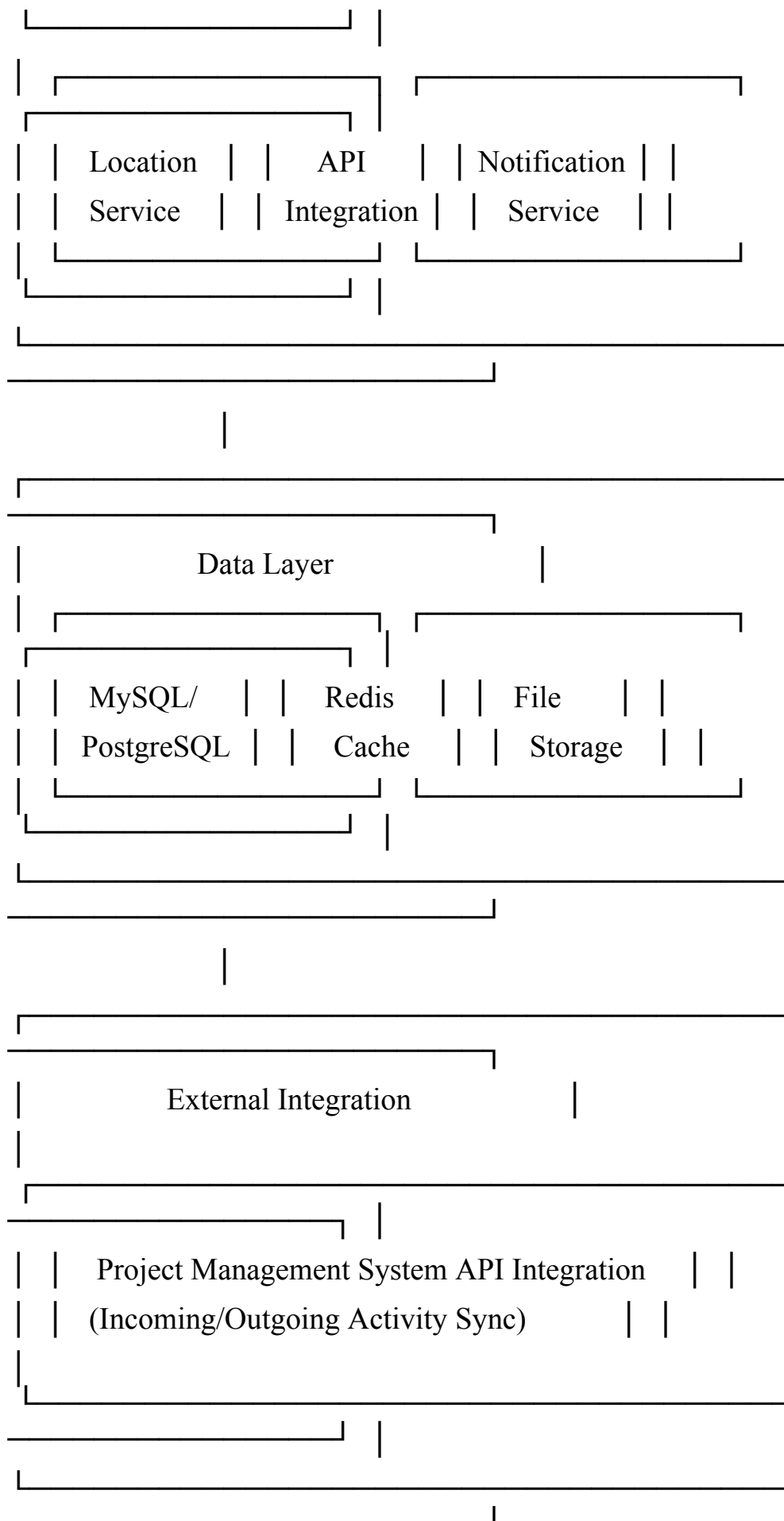
### **2.1 Technology Stack**

- **Backend Framework:** Laravel 11.x (PHP 8.2+)
- **Frontend:** Laravel Blade + Alpine.js/Livewire

- **Database:** MySQL 8.0+ / PostgreSQL 14+
- **Authentication:** Laravel Sanctum (API) + Laravel Breeze/Jetstream (Web)
- **Queue System:** Redis + Laravel Horizon
- **Cache:** Redis
- **Storage:** Local/S3-compatible storage
- **API Documentation:** Laravel Scribe / OpenAPI 3.0

## 2.2 High-Level Architecture





### 3. CORE FEATURES & REQUIREMENTS

#### 3.1 User Management & Authentication

##### 3.1.1 User Roles

**Priority:** P0 (Critical)

Role	Permissions
Super Admin	Full system access, configuration management
HR Admin	User management, attendance oversight, leave approval
Manager	Team oversight, activity approval, reporting
Field Worker	Sign in/out, activity logging, leave requests
Office Staff	Sign in/out from office locations

##### 3.1.2 Authentication Requirements

- Multi-factor authentication (optional per organization)
- Password policies (minimum 8 chars, complexity rules)
- Session timeout: 12 hours for web, 30 days for mobile
- OAuth2 support for API integration
- Remember device functionality for trusted devices

##### 3.1.3 User Profile

- Full name, employee ID, email, phone
- Department, position, employment type
- Assigned locations (multiple)
- Work schedule definition
- Profile photo
- Emergency contact information

#### 3.2 Location Management

##### 3.2.1 Location Definition

**Priority:** P0 (Critical)

**Location Types:**

1. **Office Locations:** Fixed physical offices
2. **Field Locations:** Community centers, schools, public spaces
3. **Administrative Locations:** Home office for admin work

**Location Attributes:**

- Location name and code

- Location type
- Physical address
- GPS coordinates (latitude, longitude)
- Geofence radius (configurable: 50m - 500m)
- Operating hours
- Assigned employees
- Status (active/inactive)
- Contact person
- Special instructions

### **3.2.2 Geofencing Logic**

Validation Rules:

1. Calculate distance between user GPS and location GPS
2. If distance  $\leq$  geofence\_radius: VALID
3. If distance  $>$  geofence\_radius: INVALID
4. Allow manual override by HR Admin with reason
5. Log all validation attempts for audit

### **3.2.3 Location Assignment**

- Employees can be assigned to multiple locations
- Assignment includes:
  - Primary location (default)
  - Secondary locations (optional)
  - Valid date range (from/to)
  - Days of week applicable
  - Activity types allowed at location

## **3.3 Attendance & Sign-In System**

### **3.3.1 Sign-In Process**

**Priority:** P0 (Critical)

**Sign-In Flow:**

1. User initiates sign-in (mobile/web)
2. System captures GPS coordinates
3. System validates against assigned locations
4. If valid location:

- Create attendance record
- Set status: "signed\_in"
- Record timestamp, location, GPS

5. If invalid location:

- Show error: "Outside authorized location"
- Option to select location from assigned list
- Re-validate GPS

6. Confirm sign-in to user

### **Sign-In Data Capture:**

- Employee ID
- Timestamp (with timezone)
- Location ID
- GPS coordinates (latitude, longitude)
- GPS accuracy (in meters)
- Sign-in type (office/field/admin)
- Device information
- IP address
- Photo (optional, for verification)

### **3.3.2 Sign-Out Process**

**Priority:** P0 (Critical)

#### **Sign-Out Flow:**

1. User initiates sign-out
2. System captures GPS coordinates
3. Validate location (same as sign-in or any assigned location)
4. If valid:
  - Update attendance record
  - Set status: "signed\_out"
  - Calculate total hours
5. If invalid:
  - Allow sign-out with flag for review
6. Prompt for end-of-day notes (optional)

### **3.3.3 Attendance Validation Rules**

- Cannot sign in if already signed in
- Cannot sign out if not signed in
- Maximum work hours per day: 16 hours (configurable)
- Minimum work hours per day: 0.5 hours (configurable)
- Auto sign-out after 16 hours if not manually signed out
- Break time tracking (optional)

### **3.3.4 Attendance Records**

#### **Database Schema:**

attendances:

- id (primary key)
- employee\_id (foreign key)
- location\_id (foreign key)
- sign\_in\_time (timestamp)
- sign\_in\_gps\_lat (decimal)
- sign\_in\_gps\_lng (decimal)
- sign\_in\_gps\_accuracy (integer)
- sign\_in\_notes (text)
- sign\_out\_time (timestamp, nullable)
- sign\_out\_gps\_lat (decimal, nullable)
- sign\_out\_gps\_lng (decimal, nullable)
- sign\_out\_gps\_accuracy (integer, nullable)
- sign\_out\_notes (text, nullable)
- total\_hours (decimal, calculated)
- status (enum: signed\_in, signed\_out, flagged)
- requires\_review (boolean)
- review\_notes (text)
- reviewed\_by (foreign key, nullable)
- reviewed\_at (timestamp, nullable)
- created\_at, updated\_at

## **3.4 Field Activity Management**

### **3.4.1 Activity Types**

#### **1. Workshops (One-Time Activities) Priority: P0 (Critical)**

### Characteristics:

- Single session event
- One-time occurrence
- Specific date and time
- Target audience: children OR adults
- Attendance tracking for participants
- Pre-planned or ad-hoc

### **Workshop Attributes:**

- Title and description
- Date and time (start/end)
- Location
- Target audience (children/adults)
- Planned participant count
- Actual participant count
- Facilitator(s) assigned
- Activity category/theme
- Materials/resources needed
- Status (planned/in-progress/completed/cancelled)
- Photos/documentation
- Participant attendance list

## **2. Groups (Recurring Session Series) Priority: P0 (Critical)**

### Characteristics:

- Multiple sessions with same participants
- Same group throughout the series
- Scheduled over time period
- Consistent target audience
- Session-by-session tracking

### **Group Attributes:**

- Group name and code
- Description and objectives
- Target audience (children/adults)
- Registered participants (fixed list)



- Start date and end date
- Total planned sessions
- Session schedule (weekly, bi-weekly, etc.)
- Location(s)
- Assigned facilitator(s)
- Status (active/completed/on-hold/cancelled)

### **Group Session Attributes:**

- Session number (e.g., Session 1 of 12)
- Planned date and time
- Actual date and time
- Location
- Session topic/theme
- Participant attendance tracking
- Session notes/observations
- Photos/documentation
- Status (scheduled/completed/cancelled/rescheduled)

### **3. Administrative Hours Priority: P1 (High)**

#### **Characteristics:**

- Non-field time tracking
- Office work, planning, meetings, training
- Location: office or home
- No participant involvement

### **Admin Hours Attributes:**

- Date and time (start/end)
- Activity type  
(meeting/planning/training/documentation/other)
- Description
- Location
- Related project (optional)
- Status (planned/completed)

### **3.4.2 Activity Planning & Scheduling**

#### **Planning Process:**

1. Create activity in system:

- Select type (workshop/group/admin)
- Define basic information
- Set location and schedule
- Assign facilitators

2. For Groups:

- Define all sessions in advance
- Register participants
- Set recurring schedule

3. For Workshops:

- Set single date/time
- Estimate participants

4. Approval workflow (optional):

- Submit for manager approval
- Manager reviews and approves/rejects
- Approved activities appear in calendar

### **3.4.3 Activity Implementation**

#### **Implementation Flow:**

1. Facilitator signs in at location

2. Facilitator starts activity:

- Select activity from scheduled list
- Confirm location and time
- Mark as "in progress"

3. During activity:

- Track participant attendance
- Add real-time notes
- Capture photos (optional)

4. Complete activity:

- Record actual end time

- Final participant count
- Session summary/notes
- Upload documentation
- Mark as "completed"

5. Facilitator signs out

### **3.4.4 Participant Management**

#### **For Workshops:**

- Quick attendance: count only
- Optional: participant name list
- Age group and demographics (optional)

#### **For Groups:**

- Fixed participant roster
- Participant profiles:
  - Name, age/birthdate
  - Contact information
  - Emergency contact
  - Special needs/notes
- Session-by-session attendance:
  - Present/absent/late
  - Participation notes
  - Progress tracking

### **3.4.5 Activity Database Schema**

activities:

- id (primary key)
- type (enum: workshop, group, admin\_hours)
- title (string)
- description (text)
- category\_id (foreign key)
- target\_audience (enum: children, adults, mixed, none)
- location\_id (foreign key)
- status (enum: planned, in\_progress, completed, cancelled)
- planned\_start (datetime)

- planned\_end (datetime)
- actual\_start (datetime, nullable)
- actual\_end (datetime, nullable)
- created\_by (foreign key)
- approved\_by (foreign key, nullable)
- approved\_at (timestamp, nullable)
- created\_at, updated\_at

workshops (extends activities):

- activity\_id (foreign key)
- planned\_participant\_count (integer)
- actual\_participant\_count (integer)
- materials\_needed (text)

groups (extends activities):

- activity\_id (foreign key)
- group\_code (string, unique)
- total\_sessions (integer)
- completed\_sessions (integer)
- recurrence\_pattern (json)
- start\_date (date)
- end\_date (date)

group\_sessions:

- id (primary key)
- group\_id (foreign key)
- session\_number (integer)
- session\_topic (string)
- planned\_date (datetime)
- actual\_date (datetime, nullable)
- location\_id (foreign key)
- status (enum: scheduled, completed, cancelled, rescheduled)
- notes (text)

- created\_at, updated\_at

admin\_hours:

- activity\_id (foreign key)
- admin\_type (enum: meeting, planning, training, documentation, other)
- related\_project\_id (foreign key, nullable)

participants:

- id (primary key)
- name (string)
- age (integer, nullable)
- birthdate (date, nullable)
- gender (enum, nullable)
- contact\_phone (string, nullable)
- emergency\_contact (string, nullable)
- special\_needs (text, nullable)
- created\_at, updated\_at

group\_participants:

- id (primary key)
- group\_id (foreign key)
- participant\_id (foreign key)
- enrollment\_date (date)
- status (enum: active, withdrawn, completed)
- created\_at, updated\_at

session\_attendance:

- id (primary key)
- session\_id (foreign key)
- participant\_id (foreign key)
- status (enum: present, absent, late, excused)
- notes (text, nullable)

- created\_at, updated\_at

activity\_facilitators:

- id (primary key)
- activity\_id (foreign key)
- employee\_id (foreign key)
- role (enum: lead, assistant)
- created\_at, updated\_at

activity\_media:

- id (primary key)
- activity\_id (foreign key)
- session\_id (foreign key, nullable)
- file\_path (string)
- file\_type (enum: photo, document, video)
- description (text, nullable)
- uploaded\_by (foreign key)
- created\_at, updated\_at

## **3.5 Leave & Absence Management**

### **3.5.1 Leave Types**

**Priority:** P0 (Critical)

**Standard Leave Types:**

#### **1. Annual Leave (Vacation)**

- Balance-based
- Accrual rules
- Carry-over policy

#### **2. Sick Leave**

- Balance-based or unlimited
- Medical certificate requirement (configurable days)

#### **3. Emergency Leave**

- Limited per year
- Immediate approval option

#### **4. Unpaid Leave**

- No balance required
- Deducted from salary

#### **5. Compensatory Time Off**

- Earned from overtime
- Time-limited usage

#### **6. Maternity/Paternity Leave**

- Fixed duration
- Legal compliance

#### **7. Custom Leave Types**

- Configurable by organization

### **3.5.2 Leave Request Workflow**

#### **Request Process:**

##### **1. Employee submits request:**

- Leave type
- Start date and end date
- Number of days
- Reason/notes
- Attach documents (if needed)

##### **2. System validation:**

- Check leave balance
- Check blackout dates
- Check existing approved leaves
- Check minimum notice period

##### **3. Approval routing:**

- Direct manager (required)
- HR review (for long leaves)
- Department head (optional)

##### **4. Notification:**

- Email/in-app to employee
- Update calendar
- Adjust leave balance

#### 5. Status tracking:

- Pending → Approved/Rejected
- Can cancel (before start date)

### **3.5.3 Leave Balance Management**

#### **Balance Tracking:**

- Opening balance (start of year)
- Accrued during year
- Taken (approved leaves)
- Pending (requested not approved)
- Available balance
- Expired/carried forward

#### **Accrual Rules:**

- Monthly accrual (e.g., 1.75 days/month)
- Pro-rata for new employees
- Accrual caps
- Automatic calculation via scheduled jobs

### **3.5.4 Absence Tracking**

#### **Types of Absences:**

1. **Approved Leaves:** Pre-approved time off
2. **Unapproved Absences:** No-show without approval
3. **Late Arrivals:** Sign-in after scheduled time
4. **Early Departures:** Sign-out before scheduled time
5. **Partial Day Absence:** Missing hours

#### **Absence Recording:**

- Automatic detection from attendance
- Manual entry by HR/Manager
- Absence reason required
- Disciplinary flag (if applicable)

### **3.5.5 Leave Database Schema**



leave\_types:

- id (primary key)
- name (string)
- code (string, unique)
- requires\_balance (boolean)
- requires\_document (boolean)
- document\_required\_after\_days (integer)
- max\_days\_per\_request (integer, nullable)
- min\_notice\_days (integer)
- color\_code (string)
- is\_active (boolean)
- created\_at, updated\_at

leave\_balances:

- id (primary key)
- employee\_id (foreign key)
- leave\_type\_id (foreign key)
- year (integer)
- opening\_balance (decimal)
- accrued (decimal)
- taken (decimal)
- pending (decimal)
- expired (decimal)
- carried\_forward (decimal)
- current\_balance (decimal, calculated)
- updated\_at

leave\_requests:

- id (primary key)
- employee\_id (foreign key)
- leave\_type\_id (foreign key)
- start\_date (date)
- end\_date (date)

- total\_days (decimal)
- reason (text)
- status (enum: pending, approved, rejected, cancelled)
- requested\_at (timestamp)
- reviewed\_by (foreign key, nullable)
- reviewed\_at (timestamp, nullable)
- review\_notes (text, nullable)
- created\_at, updated\_at

leave\_documents:

- id (primary key)
- leave\_request\_id (foreign key)
- file\_path (string)
- file\_name (string)
- uploaded\_at (timestamp)

absences:

- id (primary key)
- employee\_id (foreign key)
- absence\_date (date)
- absence\_type (enum: no\_show, late, early\_departure, partial)
- scheduled\_time (time, nullable)
- actual\_time (time, nullable)
- hours\_missed (decimal)
- reason (text, nullable)
- is\_approved (boolean)
- disciplinary\_action (boolean)
- notes (text, nullable)
- recorded\_by (foreign key)
- created\_at, updated\_at

## **3.6 API Integration Layer**

### **3.6.1 Integration Purpose**

**Priority: P0 (Critical)**

Enable bidirectional synchronization between HR system and external project management systems for:

- Activity planning data (incoming)
- Activity implementation data (outgoing)
- Real-time status updates
- Resource allocation
- Reporting and analytics

**3.6.2 RESTful API Design**

**Authentication:**

- OAuth 2.0 Bearer Token
- API Key + Secret (alternative)
- Rate limiting: 1000 requests/hour per key
- IP whitelisting (optional)

**Base URL Structure:**

<https://your-domain.com/api/v1/>

**API Endpoints:**

**1. Activity Management**

POST /api/v1/activities

GET /api/v1/activities

GET /api/v1/activities/{id}

PUT /api/v1/activities/{id}

DELETE /api/v1/activities/{id}

POST /api/v1/activities/{id}/start

POST /api/v1/activities/{id}/complete

**2. Group Management**

POST /api/v1/groups

GET /api/v1/groups

GET /api/v1/groups/{id}

PUT /api/v1/groups/{id}

GET /api/v1/groups/{id}/sessions

POST /api/v1/groups/{id}/sessions

PUT /api/v1/groups/{groupId}/sessions/{sessionId}

POST /api/v1/sessions/{id}/attendance

### **3. Employee Data**

GET /api/v1/employees

GET /api/v1/employees/{id}

GET /api/v1/employees/{id}/attendance

GET /api/v1/employees/{id}/activities

### **4. Attendance**

POST /api/v1/attendance/sign-in

POST /api/v1/attendance/sign-out

GET /api/v1/attendance

GET /api/v1/attendance/daily

### **5. Leave Management**

POST /api/v1/leave-requests

GET /api/v1/leave-requests

GET /api/v1/leave-requests/{id}

PUT /api/v1/leave-requests/{id}/approve

PUT /api/v1/leave-requests/{id}/reject

GET /api/v1/employees/{id}/leave-balance

### **6. Locations**

GET /api/v1/locations

GET /api/v1/locations/{id}

POST /api/v1/locations

PUT /api/v1/locations/{id}

#### **3.6.3 Webhook Support**

**Outbound Webhooks** (from HR system):

- Activity completed
- Activity cancelled
- Employee signed in
- Employee signed out
- Leave request submitted
- Leave request approved/rejected

**Webhook Payload Structure:**

{

```
"event": "activity.completed",
"timestamp": "2025-11-30T10:30:00Z",
"data": {
  "activity_id": 123,
  "type": "workshop",
  "title": "Youth Leadership Workshop",
  "actual_start": "2025-11-30T09:00:00Z",
  "actual_end": "2025-11-30T12:00:00Z",
  "location_id": 5,
  "facilitators": [45, 67],
  "participant_count": 25
}
}
```

### **Webhook Configuration:**

- URL endpoint (configurable)
- Authentication header
- Retry logic (3 attempts)
- Failure notification

### **3.6.4 Integration Scenarios**

#### **Scenario 1: Import Planned Activities**

External PM System → HR System

1. PM system creates activity plan
2. PM system calls: POST /api/v1/activities
3. HR system validates and creates activity
4. Returns activity\_id and status
5. Activity appears in HR system calendar

#### **Scenario 2: Update Implementation Status**

HR System → External PM System

1. Facilitator completes activity in HR system
2. HR system triggers webhook: activity.completed
3. PM system receives webhook

4. PM system updates project status

5. PM system confirms receipt

### **Scenario 3: Sync Attendance Data**

#### **Bidirectional Sync**

1. PM system requests attendance: GET /api/v1/attendance/daily

2. HR system returns attendance records

3. PM system updates resource allocation

4. PM system sends updated schedule

5. HR system creates new planned activities

### **3.6.5 API Documentation**

#### **Auto-generated documentation:**

- Laravel Scribe for endpoint documentation
- Interactive API explorer (Swagger UI)
- Code examples in multiple languages
- Authentication guide
- Webhook setup guide
- Error code reference

### **3.6.6 Data Synchronization**

#### **Sync Strategy:**

- Real-time for critical data (sign-in/out)
- Batch sync for reports (daily at midnight)
- On-demand sync via API calls
- Conflict resolution: last-write-wins with audit log

#### **Sync Monitoring:**

- Sync status dashboard
- Failed sync alerts
- Data integrity checks
- Sync history log

## **4. REPORTING & ANALYTICS**

### **4.1 Standard Reports**

**Priority:** P1 (High)

## **1. Attendance Reports**

- Daily attendance summary
- Employee attendance history
- Location-wise attendance
- Late arrivals and early departures
- Missing sign-out report
- Overtime hours report

## **2. Activity Reports**

- Planned vs. implemented activities
- Activity completion rate by facilitator
- Participant reach (by demographics)
- Location utilization
- Activity type distribution
- Group session completion rates

## **3. Leave Reports**

- Leave balance summary (all employees)
- Leave taken by type
- Leave requests pending approval
- Absence pattern analysis
- Leave forecast (upcoming)

## **4. Performance Reports**

- Employee productivity (activities per day)
- Facilitator performance metrics
- Location efficiency
- Time utilization (field vs. admin)

## **5. Compliance Reports**

- GPS validation failures
- Attendance exceptions requiring review
- Unapproved absences
- Overdue leave requests

## **4.2 Dashboard Widgets**

### **Employee Dashboard:**

- Today's schedule
- Upcoming activities
- Leave balance
- Attendance summary (current month)
- Pending tasks

#### **Manager Dashboard:**

- Team attendance today
- Activities in progress
- Pending approvals
- Team performance metrics
- Location status

#### **HR Admin Dashboard:**

- Organization-wide attendance
- Leave request queue
- Compliance alerts
- System health indicators
- Activity statistics

### **4.3 Export Functionality**

- Export to Excel (XLSX)
- Export to PDF
- Export to CSV
- Email scheduled reports
- API export endpoints

## **5. TECHNICAL SPECIFICATIONS**

### **5.1 Database Design Principles**

#### **Normalization:**

- 3rd Normal Form (3NF)
- Avoid data redundancy
- Use foreign keys with proper constraints

#### **Indexing Strategy:**

-- Critical indexes for performance

CREATE INDEX idx\_attendances\_employee\_date ON



```

attendances(employee_id, sign_in_time);
CREATE INDEX idx_activities_location_date ON
activities(location_id, planned_start);
CREATE INDEX idx_leave_requests_status ON
leave_requests(employee_id, status);
CREATE INDEX idx_employees_status ON employees(status,
department_id);

```

### **Soft Deletes:**

- Use deleted\_at timestamp
- Preserve data for audit
- Allow data recovery

## **5.2 Laravel Implementation Details**

### **Models & Relationships:**

// Example: Employee Model

```
class Employee extends Model
```

```
{
```

```
    use HasFactory, SoftDeletes;
```

```
    protected $fillable = [
```

```
        'employee_code', 'first_name', 'last_name',
```

```
        'email', 'phone', 'department_id', 'position'
```

```
    ];
```

```
// Relationships
```

```
    public function department() {
```

```
        return $this->belongsTo(Department::class);
```

```
    }
```

```
    public function attendances() {
```

```
        return $this->hasMany(Attendance::class);
```

```
    }
```

```
    public function activities() {
```

```
        return $this->belongsToMany(Activity::class,
'activity_facilitators');
    }
```

```
    public function locations() {
        return $this->belongsToMany(Location::class,
'employee_locations');
    }
```

```
    public function leaveRequests() {
        return $this->hasMany(LeaveRequest::class);
    }
```

// Scopes

```
    public function scopeActive($query) {
        return $query->where('status', 'active');
    }
```

// Accessors

```
    public function getFullNameAttribute() {
        return "{$this->first_name} {$this->last_name}";
    }
}
```

### **Service Layer Pattern:**

// LocationValidationService

```
class LocationValidationService
{
```

```
    public function validateLocation(
        float $userLat,
        float $userLng,
        Location $location
    ): array {
        $distance = $this->calculateDistance(
```

```

        $userLat, $userLng,
        $location->latitude, $location->longitude
    );

    $isValid = $distance <= $location->geofence_radius;

    return [
        'valid' => $isValid,
        'distance' => round($distance, 2),
        'location_name' => $location->name,
        'threshold' => $location->geofence_radius
    ];
}

private function calculateDistance($lat1, $lng1, $lat2, $lng2):
float
{
    // Haversine formula implementation
    $earthRadius = 6371000; // meters

    $dLat = deg2rad($lat2 - $lat1);
    $dLng = deg2rad($lng2 - $lng1);

    $a = sin($dLat/2) * sin($dLat/2) +
        cos(deg2rad($lat1)) * cos(deg2rad($lat2)) *
        sin($dLng/2) * sin($dLng/2);

    $c = 2 * atan2(sqrt($a), sqrt(1-$a));

    return $earthRadius * $c;
}
}

```

**Repository Pattern:**

```

// AttendanceRepository
class AttendanceRepository
{
    protected $model;

    public function __construct(Attendance $model) {
        $this->model = $model;
    }

    public function signIn(array $data): Attendance {
        return $this->model->create($data);
    }

    public function findActiveAttendance(int $employeeId): ?
Attendance {
        return $this->model
            ->where('employee_id', $employeeId)
            ->whereNull('sign_out_time')
            ->latest()
            ->first();
    }

    public function signOut(Attendance $attendance, array $data):
bool {
        $attendance->update($data);
        $attendance->update([

```