

# ASMC API - API Reference

Complete reference for all ASMC API endpoints, request/response formats, and usage examples.

## Table of Contents

- [Base Configuration](#)
- [Authentication](#)
- [API Endpoints](#)
- [Response Formats](#)
- [Error Handling](#)
- [Rate Limiting](#)

## Base Configuration

### Base URLs

- **Development:** `http://localhost:7055`
- **Production:** `https://api.asmcdae.in`
- **API Documentation:** `{base_url}/api-docs`

### Headers

```
Content-Type: application/json  
Authorization: Bearer {jwt_token}
```

## Authentication

### Login Endpoints

#### Admin Login

```
POST /auth/admin-login
```

#### Request Body:

```
{  
    "username": "admin@asmc.com",  
    "password": "password123"  
}
```

#### Response:

```
{  
    "success": true,  
    "message": "Login successful",  
    "result": {  
        "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...",  
        "user": {  
            "id": "user_id",  
            "username": "admin@asmc.com",  
            "role": "admin"  
        }  
    }  
}
```

```
        }
    }
}
```

## Member Login

```
POST /auth/member-login
```

### Request Body:

```
{
  "memberId": "00001",
  "password": "password123"
}
```

## User Management

```
GET /auth/me           # Get current user
PUT /auth/change-password # Change password
POST /auth/send-reset-password-otp # Send reset OTP
PUT /auth/reset-password      # Reset password
```

## Members API

### Member Management

```
GET /members            # List all members (paginated)
POST /members           # Create new member
GET /members/:id         # Get member details
PUT /members/:id         # Update member
DELETE /members/:id       # Delete member
POST /members/multiple    # Bulk member creation
GET /members/export       # Export members data
```

### Create Member

```
POST /members
```

### Request Body:

```
{
  "firstName": "John",
  "lastName": "Doe",
  "email": "john.doe@example.com",
  "phone": "9876543210",
  "dateOfBirth": "1990-01-01",
  "address": {
    "street": "123 Main St",
    "city": "Mumbai",
    "state": "Maharashtra",
    "pincode": "400001"
}
```

```

},
"familyMembers": [
    {
        "name": "Jane Doe",
        "relation": "spouse",
        "age": 28
    }
]
}

```

**Response:**

```
{
    "success": true,
    "message": "Member created successfully",
    "result": {
        "id": "member_id",
        "memberId": "00001",
        "firstName": "John",
        "lastName": "Doe",
        "email": "john.doe@example.com",
        "phone": "9876543210",
        "createdAt": "2024-01-01T00:00:00.000Z"
    }
}
```

## Staff API

```

GET /staff                         # List all staff
POST /staff                        # Create new staff
GET /staff/:id                     # Get staff details
PUT /staff/:id                     # Update staff
DELETE /staff/:id                  # Delete staff

```

## Masters API

### Facility Management

```

GET /masters/facilities           # List facilities
POST /masters/facilities          # Create facility
GET /masters/facilities/:id       # Get facility details
PUT /masters/facilities/:id       # Update facility
DELETE /masters/facilities/:id    # Delete facility

```

### Location Management

```

GET /masters/locations            # List locations
POST /masters/locations           # Create location
GET /masters/locations/:id        # Get location details

```

```
PUT /masters/locations/:id      # Update location  
DELETE /masters/locations/:id   # Delete location
```

## Category Management

```
GET /masters/categories          # List categories  
POST /masters/categories        # Create category  
GET /masters/categories/:id     # Get category details  
PUT /masters/categories/:id     # Update category  
DELETE /masters/categories/:id   # Delete category
```

## Activity API

```
GET /activity                   # List activities  
POST /activity                 # Create activity  
GET /activity/:id              # Get activity details  
PUT /activity/:id              # Update activity  
DELETE /activity/:id           # Delete activity  
POST /activity/enroll          # Enroll in activity  
GET /activity/enrolled         # Get enrolled activities
```

## Payment API

### Payment Processing

```
GET /payment                    # List payments  
POST /payment                  # Create payment  
GET /payment/:id               # Get payment details  
POST /payment/verify           # Verify payment  
GET /payment/history           # Payment history  
POST /payment/ccavenue-response # CCAvenue callback
```

### Create Payment

```
POST /payment
```

#### Request Body:

```
{  
  "memberId": "00001",  
  "paymentType": "membership",  
  "amount": 5000,  
  "currency": "INR",  
  "paymentMethod": "online",  
  "description": "Annual membership fee"  
}
```

## Biometric API

## Machine Management

```
GET /biometric/machines      # List machines
POST /biometric/machines     # Add machine
GET /biometric/machines/:id  # Get machine details
PUT /biometric/machines/:id  # Update machine
DELETE /biometric/machines/:id # Delete machine
```

## Attendance Management

```
GET /biometric/attendance    # Get attendance
POST /biometric/attendance   # Mark attendance
GET /biometric/attendance/:id # Get member attendance
PUT /biometric/attendance/:id # Update attendance
```

## Notifications

```
GET /biometric/notifications # Get notifications
POST /biometric/notifications # Create notification
PUT /biometric/notifications/:id # Update notification
DELETE /biometric/notifications/:id # Delete notification
```

## Regularization

```
GET /biometric/regularization # Get regularization requests
POST /biometric/regularization # Submit regularization request
PUT /biometric/regularization/:id # Update regularization
```

# □ Halls API

## Hall Management

```
GET /halls                  # List halls
POST /halls                 # Create hall
GET /halls/:id              # Get hall details
PUT /halls/:id              # Update hall
DELETE /halls/:id           # Delete hall
```

## Hall Booking

```
POST /halls/book            # Book hall
GET /halls/availability     # Check availability
GET /halls/bookings          # Get bookings
PUT /halls/bookings/:id      # Update booking
DELETE /halls/bookings/:id   # Cancel booking
```

## Book Hall

```
POST /halls/book
```

#### **Request Body:**

```
{  
    "hallId": "hall_id",  
    "memberId": "00001",  
    "bookingDate": "2024-01-15",  
    "timeSlots": [  
        {  
            "startTime": "09:00",  
            "endTime": "11:00"  
        }  
    ],  
    "guestDetails": [  
        {  
            "name": "Guest Name",  
            "phone": "9876543210",  
            "relation": "friend"  
        }  
    ]  
}
```

## Events API

### Event Management

```
GET /events                      # List events  
POST /events                     # Create event  
GET /events/:id                  # Get event details  
PUT /events/:id                  # Update event  
DELETE /events/:id               # Delete event
```

### Event Booking

```
POST /events/book                 # Book event  
GET /events/upcoming              # Upcoming events  
GET /events/bookings              # Get bookings  
PUT /events/bookings/:id          # Update booking  
DELETE /events/bookings/:id       # Cancel booking
```

## Plans API

```
GET /plans                        # List plans  
POST /plans                       # Create plan  
GET /plans/:id                   # Get plan details  
PUT /plans/:id                   # Update plan  
DELETE /plans/:id                # Delete plan  
POST /plans/recommend             # Recommend plan  
GET /plans/recommended            # Get recommended plans
```

## Reports API

```
GET /reports/members          # Members report
GET /reports/payments         # Payments report
GET /reports/enrollment        # Enrollment report
GET /reports/batch-wise       # Batch-wise report
GET /reports/renewal          # Renewal report
GET /reports/analytics        # Analytics report
```

## Response Formats

### Success Response

```
{
  "success": true,
  "message": "Operation successful",
  "result": {
    // Response data
  }
}
```

### Error Response

```
{
  "success": false,
  "message": "Error description",
  "result": {
    "error": "Detailed error information",
    "code": "ERROR_CODE"
  }
}
```

### Paginated Response

```
{
  "success": true,
  "message": "Data retrieved successfully",
  "result": {
    "data": [...],
    "pagination": {
      "page": 1,
      "limit": 10,
      "total": 100,
      "pages": 10
    }
  }
}
```

## Error Handling

## HTTP Status Codes

- 200 - Success
- 201 - Created
- 400 - Bad Request
- 401 - Unauthorized
- 403 - Forbidden
- 404 - Not Found
- 422 - Validation Error
- 500 - Internal Server Error

## Common Error Codes

- INVALID\_CREDENTIALS - Login failed
- TOKEN\_EXPIRED - JWT token expired
- INSUFFICIENT\_PERMISSIONS - Access denied
- VALIDATION\_ERROR - Input validation failed
- DUPLICATE\_ENTRY - Resource already exists
- RESOURCE\_NOT\_FOUND - Requested resource not found

## Rate Limiting

### Limits

- **Default:** 100 requests per 15 minutes per IP
- **Authentication:** 5 login attempts per 15 minutes per IP
- **File Upload:** 10 uploads per hour per user

### Rate Limit Headers

```
X-RateLimit-Limit: 100
X-RateLimit-Remaining: 95
X-RateLimit-Reset: 1640995200
```

### Rate Limit Exceeded Response

```
{
  "success": false,
  "message": "Too many requests",
  "result": {
    "error": "Rate limit exceeded",
    "retryAfter": 900
  }
}
```

## Usage Examples

### Complete Authentication Flow

```
// 1. Login
const loginResponse = await fetch('/auth/admin-login', {
  method: 'POST',
  headers: { 'Content-Type': 'application/json' },
```

```

body: JSON.stringify({
    username: 'admin@asmc.com',
    password: 'password123',
}),
});

const { result } = await loginResponse.json();
const token = result.token;

// 2. Use token in subsequent requests
const membersResponse = await fetch('/members', {
    headers: { Authorization: `Bearer ${token}` },
});

const members = await membersResponse.json();

```

## File Upload Example

```

const formData = new FormData();
formData.append('file', fileInput.files[0]);
formData.append('memberId', '00001');

const response = await fetch('/members/upload-image', {
    method: 'POST',
    headers: { Authorization: `Bearer ${token}` },
    body: formData,
});

```

## Pagination Example

```

const response = await fetch('/members?page=2&limit=20&sort=createdAt&order=desc', {
    headers: { Authorization: `Bearer ${token}` },
});

const { result } = await response.json();
const { data, pagination } = result;

```

## Additional Resources

- Interactive API Docs: <http://localhost:7055/api-docs>
- Quick Start Guide: [QUICK START GUIDE.md](#)
- Architecture Overview: [ARCHITECTURE OVERVIEW.md](#)
- Installation Guide: [INSTALLATION SETUP.md](#)

This API reference provides comprehensive documentation for all endpoints. For interactive testing, use the Swagger UI at </api-docs>.