

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`.