**API Endpoint List**

## ****1. Authentication & User Management****

| **Endpoint** | **Method** | **Description** | **Parameters/Body** | **Responses** |
| --- | --- | --- | --- | --- |
| /auth/register | POST | Register new user | { email, password, role } | 201 Created |
| /auth/login | POST | User login | { email, password } | 200 + JWT |
| /auth/verify-email | POST | Email verification | { token } | 202 Accepted |
| /auth/forgot-password | POST | Initiate password reset | { email } | 202 Accepted |
| /auth/reset-password | POST | Complete password reset | { token, newPassword } | 200 OK |
| /users/me | GET | Get current user | - | 200 + User Profile |
| /users/me/teams | GET | Get user's teams | ?role=member/leader | 200 + Team[] |
| /users/{userId}/availability | GET | Check if user can join more teams | - | 200 { available: boolean } |

## ****2. Team Management****

| **Endpoint** | **Method** | **Description** | **Parameters/Body** | **Responses** |
| --- | --- | --- | --- | --- |
| /teams | POST | Create new team | { name, description } | 201 + Team |
| /teams/{teamId} | PATCH | Update team info | { name, description } | 200 Updated |
| /teams/{teamId}/code | GET | Generate team code | - | 200 { code: "ABCD-1234" } |
| /teams/join | POST | Join team with code | { code } | 201 Joined |
| /teams/{teamId}/members | GET | List team members | ?status=pending/active | 200 Member[] |
| /teams/{teamId}/members/{userId} | DELETE | Remove member | - | 204 No Content |
| /teams/{teamId}/requests | GET | List join requests | - | 200 Request[] |
| /teams/{teamId}/requests/{requestId} | PATCH | Approve/reject request | { action: "approve"/"reject" } | 200 Updated |

## ****3. Project & Proposal System****

| **Endpoint** | **Method** | **Description** | **Parameters/Body** | **Responses** |
| --- | --- | --- | --- | --- |
| /projects | POST | Create project | { title, description, budget, timeline } | 201 + Project |
| /projects | GET | List projects | ?status=open/closed | 200 Project[] |
| /projects/{projectId} | PATCH | Update project | { status: "closed" } | 200 Updated |
| /projects/{projectId}/proposals | POST | Submit proposal | { teamId, bid, timeline } | 201 + Proposal |
| /projects/{projectId}/proposals | GET | List proposals | ?sort=bid\_asc | 200 Proposal[] |
| /projects/{projectId}/accept | POST | Accept proposal | { proposalId } | 200 Accepted |
| /projects/{projectId}/milestones | POST | Create milestone | { name, amount } | 201 Created |

## ****4. Task Management (Trello Sync)****

| **Endpoint** | **Method** | **Description** | **Parameters/Body** | **Responses** |
| --- | --- | --- | --- | --- |
| /teams/{teamId}/tasks | POST | Create task | { title, dueDate, assignees[] } | 201 + Task |
| /teams/{teamId}/tasks/{taskId} | PATCH | Update task | { status, assignees } | 200 Updated |
| /teams/{teamId}/tasks/sync | POST | Force Trello sync | - | 202 Syncing |
| teams/{teamId}/tasks/attachments | POST | Add task attachment | file (multipart) | 201 + URL |

## ****5. Payment System****

| **Endpoint** | **Method** | **Description** | **Parameters/Body** | **Responses** |
| --- | --- | --- | --- | --- |
| /payments/methods | POST | Add payment method | Stripe/PayPal token | 201 + MethodID |
| /payments/methods | GET | List payment methods | - | 200 Method[] |
| /payments/escrow | POST | Create escrow | { projectId, amount } | 201 + Escrow |
| /payments/escrow/{escrowId}/release | POST | Release funds | { milestoneId } | 200 Released |
| /payments/transactions | GET | Transaction history | ?type=deposit/withdrawal | 200 Tx[] |
| /payments/refunds | POST | Request refund | { transactionId } | 202 Pending |

## ****Security & Rate Limits****

**Security Headers:**

Authorization: Bearer <JWT>

X-Idempotency-Key: <uuid>

Content-Security-Policy: default-src 'self'

**Rate Limits:**

| **Endpoint Group** | **Limit** |
| --- | --- |
| Authentication | 5 req/min |
| Payment | 10 req/min |
| Chat | 20 req/min |
| Others | 100 req/min |

This document provides a structured overview of API endpoints, security protocols, and rate limits to guide integration and usage.

**Comprehensive API Endpoint Examples**

## ****1. Authentication & User Management****

### ****1.1**** POST /auth/register

**Request:**

{

"email": "alex@freegency.com",

"password": "P@ssw0rd123",

"role": "general"

}

**Response (201):**

{

"id": "usr\_65a1b2c3d4e5f6g7h8i9j0k",

"email": "alex@freegency.com",

"verificationToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..."

}

### ****1.2**** POST /auth/login

**Request:**

{

"email": "alex@freegency.com",

"password": "P@ssw0rd123"

}

**Response (200):**

{

"accessToken": "eyJhbGci...",

"refreshToken": "eyJraWQiOiIxMjM0NTY3ODkwI...",

"expiresIn": 3600

}

### ****1.3**** POST /auth/verify-email

**Request:**

{

"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..."

}

**Response (202):**

{

"message": "Verification initiated"

}

### ****1.4**** POST /auth/forgot-password

**Request:**

{

"email": "alex@freegency.com"

}

**Response (202):**

{

"resetTokenExpiry": "2023-12-16T14:30:00Z"

}

### ****1.5**** POST /auth/reset-password

**Request:**

{

"token": "reset\_eyJhbGci...",

"newPassword": "NewP@ss123!"

}

**Response (200):**

{

"message": "Password updated"

}

### ****1.6**** GET /users/me

**Response (200):**

{

"id": "usr\_65a1b2c3d4e5f6g7h8i9j0k",

"email": "alex@freegency.com",

"teams": ["team\_98z7y6x5w4v3u2t1s0r9q8p"]

}

### ****1.7**** GET /users/me/teams?role=leader

**Response (200):**

{

"teams": [

{

"id": "team\_98z7y6x5w4v3u2t1s0r9q8p",

"name": "Alpha Team",

"role": "leader"

}

]

}

### ****1.8**** GET /users/usr\_65a1b2c3d4e5f6g7h8i9j0k/availability

**Response (200):**

{

"available": false,

"reason": "Already in 3 teams"

}

## ****2. Team Management****

### ****2.1**** POST /teams

**Request:**

{

"name": "Design Mavericks",

"description": "UI/UX specialists"

}

**Response (201):**

{

"id": "team\_98z7y6x5w4v3u2t1s0r9q8p",

"code": "TEAM-ABCD-5678-EFGH"

}

### ****2.2**** PATCH /teams/team\_98z7y6x5w4v3u2t1s0r9q8p

**Request:**

{

"description": "Top-rated UI/UX team"

}

**Response (200):**

{

"updatedFields": ["description"]

}

### ****2.3**** GET /teams/team\_98z7y6x5w4v3u2t1s0r9q8p/code

**Response (200):**

{

"code": "TEAM-NEWC-ODEEXPIRES",

"expiresAt": "2023-12-16T15:00:00Z"

}

## ****3. Project & Proposal System****

### ****3.1**** POST /projects

**Request:**

{

"title": "Mobile Banking App",

"description": "iOS/Android development",

"budget": 15000,

"timeline": "6 months"

}

**Response (201):**

{

"id": "proj\_11a2b3c4d5e6f7g8h9i0j1k",

"status": "open"

}

### ****3.2**** GET /projects?status=open

**Response (200):**

{

"projects": [

{

"id": "proj\_11a2b3c4d5e6f7g8h9i0j1k",

"title": "Mobile Banking App",

"budget": 15000

}

]

}

## ****Security Implementation****

**Sample Request with Headers:**

POST /projects

Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...

X-Idempotency-Key: 550e8400-e29b-41d4-a716-446655440000

Content-Type: application/json

This document provides **comprehensive API endpoint examples** with **realistic request/response pairs** for authentication, team management, project handling, and security implementation.