**InterEd Recruitment Platform API Specifications**

**API Overview**

The InterEd Recruitment Platform API follows RESTful principles and is designed to support the three main portals: Student Portal, Agent Portal, and Admin Portal. This document outlines the API endpoints, request/response formats, authentication mechanisms, and best practices for implementation.

**Base URL**

https://api.intered.com/v1

**Authentication**

All API requests require authentication using JSON Web Tokens (JWT).

**Authentication Endpoints**

**POST /api/auth/login**

Authenticates a user and returns a JWT token.

**Request:**

{

"email": "user@example.com",

"password": "password123",

"userType": "student|agent|admin"

}

**Response:**

{

"status": "success",

"data": {

"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...",

"refreshToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...",

"expiresIn": 3600,

"user": {

"id": "60d21b4667d0d8992e610c85",

"email": "user@example.com",

"firstName": "John",

"lastName": "Doe",

"role": "student|agent|admin",

"permissions": [...]

}

}

}

**POST /api/auth/refresh**

Refreshes an expired JWT token.

**Request:**

{

"refreshToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..."

}

**Response:**

{

"status": "success",

"data": {

"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...",

"refreshToken": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...",

"expiresIn": 3600

}

}

**POST /api/auth/register**

Registers a new student user.

**Request:**

{

"email": "student@example.com",

"password": "password123",

"firstName": "John",

"lastName": "Doe",

"phone": "+1234567890",

"countryOfResidence": "USA",

"dateOfBirth": "1995-06-15",

"educationLevel": "bachelors",

"preferredStudyDestinations": ["USA", "Canada", "UK"],

"preferredPrograms": ["Computer Science", "Information Technology"],

"agentReferralCode": "AGENT123" // Optional

}

**Response:**

{

"status": "success",

"data": {

"user": {

"id": "60d21b4667d0d8992e610c85",

"email": "student@example.com",

"firstName": "John",

"lastName": "Doe"

},

"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9..."

}

}

**POST /api/auth/forgot-password**

Initiates the password reset process.

**Request:**

{

"email": "user@example.com",

"userType": "student|agent|admin"

}

**Response:**

{

"status": "success",

"message": "Password reset instructions sent to your email"

}

**POST /api/auth/reset-password**

Resets the user's password using a reset token.

**Request:**

{

"token": "reset-token-sent-to-email",

"newPassword": "newpassword123"

}

**Response:**

{

"status": "success",

"message": "Password successfully reset"

}

**POST /api/auth/logout**

Invalidates the current JWT token.

**Request:** (JWT token in Authorization header)

**Response:**

{

"status": "success",

"message": "Successfully logged out"

}

**Student Portal API**

**Student Profile Management**

**GET /api/students/profile**

Retrieves the student's profile information.

**Response:**

{

"status": "success",

"data": {

"student": {

"id": "60d21b4667d0d8992e610c85",

"email": "student@example.com",

"firstName": "John",

"lastName": "Doe",

"phone": "+1234567890",

"countryOfResidence": "USA",

"dateOfBirth": "1995-06-15",

"education": {

"highestLevel": "bachelor",

"institutions": [

{

"name": "University of Example",

"country": "USA",

"degree": "Bachelor of Science",

"field": "Computer Science",

"startDate": "2014-09-01",

"endDate": "2018-05-31",

"grade": "3.8"

}

],

"testScores": {

"ielts": {

"overall": 7.5,

"listening": 7.5,

"reading": 8.0,

"writing": 7.0,

"speaking": 7.5,

"examDate": "2021-03-15"

},

"toefl": null,

"gre": null,

"gmat": null

}

},

"preferences": {

"studyDestinations": ["USA", "Canada", "UK"],

"programLevels": ["master"],

"programFields": ["Computer Science", "Information Technology"],

"budgetRange": {

"min": 15000,

"max": 30000,

"currency": "USD"

},

"startDate": "2023-09-01"

},

"documents": [

{

"id": "60d21b4667d0d8992e610c90",

"name": "Passport",

"type": "identity",

"fileUrl": "https://storage.intered.com/documents/passport-123456.pdf",

"uploadDate": "2022-04-15T10:30:00Z",

"verificationStatus": "verified"

}

],

"agent": {

"id": "60d21b4667d0d8992e610c92",

"name": "Global Education Partners",

"counselorName": "Jane Smith",

"email": "jane@globaledu.com"

},

"createdAt": "2022-04-10T08:15:00Z",

"updatedAt": "2022-04-15T10:30:00Z"

}

}

}

**PUT /api/students/profile**

Updates the student's profile information.

**Request:**

{

"firstName": "John",

"lastName": "Doe",

"phone": "+1234567890",

"countryOfResidence": "USA",

"dateOfBirth": "1995-06-15",

"education": {

"highestLevel": "bachelor",

"institutions": [

{

"name": "University of Example",

"country": "USA",

"degree": "Bachelor of Science",

"field": "Computer Science",

"startDate": "2014-09-01",

"endDate": "2018-05-31",

"grade": "3.8"

}

]

},

"preferences": {

"studyDestinations": ["USA", "Canada", "UK"],

"programLevels": ["master"],

"programFields": ["Computer Science", "Information Technology"],

"budgetRange": {

"min": 15000,

"max": 30000,

"currency": "USD"

},

"startDate": "2023-09-01"

}

}

**Response:**

{

"status": "success",

"data": {

"student": {

"id": "60d21b4667d0d8992e610c85",

"firstName": "John",

"lastName": "Doe",

"updated": true

}

},

"message": "Profile updated successfully"

}

**Student Documents Management**

**GET /api/students/documents**

Retrieves all documents for the student.

**Response:**

{

"status": "success",

"data": {

"documents": [

{

"id": "60d21b4667d0d8992e610c90",

"name": "Passport",

"type": "identity",

"fileUrl": "https://storage.intered.com/documents/passport-123456.pdf",

"uploadDate": "2022-04-15T10:30:00Z",

"verificationStatus": "verified",

"comments": "Document verified successfully"

},

{

"id": "60d21b4667d0d8992e610c91",

"name": "Academic Transcript",

"type": "academic",

"fileUrl": "https://storage.intered.com/documents/transcript-123456.pdf",

"uploadDate": "2022-04-16T14:20:00Z",

"verificationStatus": "pending",

"comments": "Under review"

}

]

}

}

**POST /api/students/documents**

Uploads a new document.

**Request:** (multipart/form-data)

file: [Binary file data]

name: "Academic Transcript"

type: "academic"

description: "Bachelor's degree transcript"

**Response:**

{

"status": "success",

"data": {

"document": {

"id": "60d21b4667d0d8992e610c91",

"name": "Academic Transcript",

"type": "academic",

"fileUrl": "https://storage.intered.com/documents/transcript-123456.pdf",

"uploadDate": "2022-04-16T14:20:00Z",

"verificationStatus": "pending"

}

},

"message": "Document uploaded successfully"

}

**DELETE /api/students/documents/:documentId**

Deletes a document.

**Response:**

{

"status": "success",

"message": "Document deleted successfully"

}

**University and Program Search**

**GET /api/universities**

Retrieves a list of universities with filtering options.

**Query Parameters:**

* country (string, optional): Filter by country
* city (string, optional): Filter by city
* programLevel (string, optional): Filter by program level (bachelor, master, phd)
* programField (string, optional): Filter by program field
* ranking (string, optional): Filter by ranking range (e.g., "1-100")
* tuitionRange (string, optional): Filter by tuition range (e.g., "5000-15000")
* page (number, optional): Page number for pagination
* limit (number, optional): Number of results per page

**Response:**

{

"status": "success",

"data": {

"universities": [

{

"id": "60d21b4667d0d8992e610c95",

"name": "University of Example",

"country": "USA",

"city": "New York",

"ranking": 42,

"campusImages": ["https://storage.intered.com/universities/uoe-campus1.jpg"],

"logoUrl": "https://storage.intered.com/universities/uoe-logo.png",

"description": "A leading research university...",

"programCount": 124,

"averageTuition": {

"bachelor": 25000,

"master": 30000,

"phd": 15000,

"currency": "USD"

},

"applicationDeadlines": {

"fall": "2023-01-15",

"spring": "2022-09-15"

},

"acceptanceRate": "65%"

}

],

"pagination": {

"total": 156,

"page": 1,

"limit": 10,

"pages": 16

}

}

}

**GET /api/universities/:universityId**

Retrieves detailed information about a specific university.

**Response:**

{

"status": "success",

"data": {

"university": {

"id": "60d21b4667d0d8992e610c95",

"name": "University of Example",

"country": "USA",

"city": "New York",

"state": "NY",

"address": "123 University Ave, New York, NY 10001",

"website": "https://www.example.edu",

"establishedYear": 1850,

"type": "Public",

"ranking": {

"global": 42,

"national": 15

},

"campusImages": [

"https://storage.intered.com/universities/uoe-campus1.jpg",

"https://storage.intered.com/universities/uoe-campus2.jpg"

],

"logoUrl": "https://storage.intered.com/universities/uoe-logo.png",

"description": "A leading research university...",

"facilities": [

"Modern libraries",

"Research labs",

"Sports complexes",

"Student housing"

],

"studentPopulation": {

"total": 25000,

"international": 5000,

"undergraduate": 15000,

"graduate": 10000

},

"admissionRequirements": {

"bachelor": {

"minimumGPA": 3.0,

"englishRequirements": {

"ielts": 6.5,

"toefl": 90

},

"requiredDocuments": [

"High school transcripts",

"Standardized test scores",

"Statement of purpose"

]

},

"master": {

"minimumGPA": 3.2,

"englishRequirements": {

"ielts": 7.0,

"toefl": 100

},

"requiredDocuments": [

"Bachelor's degree transcripts",

"GRE/GMAT scores",

"Statement of purpose",

"Letters of recommendation"

]

}

},

"applicationDeadlines": {

"fall": "2023-01-15",

"spring": "2022-09-15",

"summer": "2023-03-01"

},

"tuitionFees": {

"bachelor": {

"domestic": 15000,

"international": 25000

},

"master": {

"domestic": 20000,

"international": 30000

},

"phd": {

"domestic": 10000,

"international": 15000

},

"currency": "USD"

},

"livingCosts": {

"accommodation": {

"onCampus": 12000,

"offCampus": 15000

},

"meals": 5000,

"transportation": 1200,

"miscellaneous": 3000,

"currency": "USD",

"period": "annual"

},

"scholarships": [

{

"name": "Merit Scholarship",

"amount": 10000,

"currency": "USD",

"eligibility": "GPA above 3.5",

"deadline": "2023-01-30"

}

],

"programs": {

"featured": [

{

"id": "60d21b4667d0d8992e610d01",

"name": "Computer Science",

"level": "bachelor",

"duration": "4 years"

}

],

"count": {

"bachelor": 45,

"master": 65,

"phd": 30

}

}

}

}

}

**GET /api/universities/:universityId/programs**

Retrieves programs offered by a specific university.

**Query Parameters:**

* level (string, optional): Filter by program level (bachelor, master, phd)
* field (string, optional): Filter by program field
* duration (string, optional): Filter by duration
* page (number, optional): Page number for pagination
* limit (number, optional): Number of results per page

**Response:**

{

"status": "success",

"data": {

"programs": [

{

"id": "60d21b4667d0d8992e610d01",

"name": "Bachelor of Science in Computer Science",

"level": "bachelor",

"field": "Computer Science",

"description": "A comprehensive program covering various aspects of computer science...",

"duration": "4 years",

"credits": 120,

"tuitionFees": {

"domestic": 15000,

"international": 25000,

"currency": "USD",

"period": "annual"

},

"entryRequirements": {

"minimumGPA": 3.0,

"englishRequirements": {

"ielts": 6.5,

"toefl": 90

},

"otherRequirements": [

"High school diploma",

"Mathematics background"

]

},

"applicationDeadline": {

"fall": "2023-01-15",

"spring": "2022-09-15"

},

"startDates": [

"2023-09-01",

"2024-01-15"

],

"careerOutcomes": [

"Software Developer",

"Systems Analyst",

"Database Administrator"

]

}

],

"pagination": {

"total": 45,

"page": 1,

"limit": 10,

"pages": 5

}

}

}

**Application Management**

**GET /api/applications**

Retrieves all applications for the student.

**Response:**

{

"status": "success",

"data": {

"applications": [

{

"id": "60d21b4667d0d8992e610d10",

"universityId": "60d21b4667d0d8992e610c95",

"university": "University of Example",

"programId": "60d21b4667d0d8992e610d01",

"program": "Bachelor of Science in Computer Science",

"status": "submitted",

"submissionDate": "2022-05-10T08:30:00Z",

"decisionDate": null,

"decision": null,

"applicationFee": {

"amount": 75,

"currency": "USD",

"paid": true,

"paymentDate": "2022-05-10T08:30:00Z"

},

"documents": [

{

"id": "60d21b4667d0d8992e610c91",

"name": "Academic Transcript",

"status": "approved"

}

],

"notes": [

{

"id": "60d21b4667d0d8992e610d20",

"author": "Jane Smith",

"authorRole": "counselor",

"date": "2022-05-12T10:15:00Z",

"content": "Application submitted successfully. Waiting for university response."

}

]

}

]

}

}

**GET /api/applications/:applicationId**

Retrieves detailed information about a specific application.

**Response:**

{

"status": "success",

"data": {

"application": {

"id": "60d21b4667d0d8992e610d10",

"universityId": "60d21b4667d0d8992e610c95",

"university": {

"name": "University of Example",

"country": "USA",

"logoUrl": "https://storage.intered.com/universities/uoe-logo.png"

},

"programId": "60d21b4667d0d8992e610d01",

"program": {

"name": "Bachelor of Science in Computer Science",

"level": "bachelor",

"duration": "4 years"

},

"submissionDate": "2022-05-10T08:30:00Z",

"intakeDate": "2023-09-01",

"status": "submitted",

"statusHistory": [

{

"status": "draft",

"date": "2022-05-05T14:20:00Z"

},

{

"status": "submitted",

"date": "2022-05-10T08:30:00Z"

}

],

"personalDetails": {

"firstName": "John",

"lastName": "Doe",

"email": "student@example.com",

"phone": "+1234567890",

"dateOfBirth": "1995-06-15",

"nationality": "USA",

"passportNumber": "AB123456"

},

"educationDetails": {

"highestLevel": "bachelor",

"institutions": [

{

"name": "University of Example",

"country": "USA",

"degree": "Bachelor of Science",

"field": "Computer Science",

"startDate": "2014-09-01",

"endDate": "2018-05-31",

"grade": "3.8"

}

],

"testScores": {

"ielts": {

"overall": 7.5,

"listening": 7.5,

"reading": 8.0,

"writing": 7.0,

"speaking": 7.5,

"examDate": "2021-03-15"

}

}

},

"documents": [

{

"id": "60d21b4667d0d8992e610c91",

"name": "Academic Transcript",

"type": "academic",

"fileUrl": "https://storage.intered.com/documents/transcript-123456.pdf",

"uploadDate": "2022-04-16T14:20:00Z",

"status": "approved"

}

],

"applicationFee": {

"amount": 75,

"currency": "USD",

"paid": true,

"paymentDate": "2022-05-10T08:30:00Z",

"paymentMethod": "credit\_card",

"transactionId": "txn\_123456789"

},

"decisionDetails": {

"decision": null,

"decisionDate": null,

"conditions": [],

"scholarships": []

},

"timeline": [

{

"step": "Application Started",

"date": "2022-05-05T14:20:00Z",

"completed": true

},

{

"step": "Documents Uploaded",

"date": "2022-05-07T09:45:00Z",

"completed": true

},

{

"step": "Application Submitted",

"date": "2022-05-10T08:30:00Z",

"completed": true

},

{

"step": "University Processing",

"date": null,

"completed": false

},

{

"step": "Decision",

"date": null,

"completed": false

},

{

"step": "Visa Application",

"date": null,

"completed": false

},

{

"step": "Pre-Departure",

"date": null,

"completed": false

}

],

"notes": [

{

"id": "60d21b4667d0d8992e610d20",

"author": "Jane Smith",

"authorRole": "counselor",

"date": "2022-05-12T10:15:00Z",

"content": "Application submitted successfully. Waiting for university response."

}

],

"createdAt": "2022-05-05T14:20:00Z",

"updatedAt": "2022-05-10T08:30:00Z"

}

}

}

**POST /api/applications**

Creates a new application.

**Request:**

{

"universityId": "60d21b4667d0d8992e610c95",

"programId": "60d21b4667d0d8992e610d01",

"intakeDate": "2023-09-01",

"personalStatement": "I am applying to this program because...",

"documents": [

"60d21b4667d0d8992e610c90",

"60d21b4667d0d8992e610c91"

]

}

**Response:**

{

"status": "success",

"data": {

"application": {

"id": "60d21b4667d0d8992e610d10",

"universityId": "60d21b4667d0d8992e610c95",

"university": "University of Example",

"programId": "60d21b4667d0d8992e610d01",

"program": "Bachelor of Science in Computer Science",

"status": "draft",

"createdAt": "2022-05-05T14:20:00Z"

}

},

"message": "Application created successfully"

}

**PUT /api/applications/:applicationId**

Updates an application.

**Request:**

{

"personalStatement": "I am applying to this program because I have a strong interest in...",

"documents": [

"60d21b4667d0d8992e610c90",

"60d21b4667d0d8992e610c91",

"60d21b4667d0d8992e610c92"

]

}

**Response:**

{

"status": "success",

"data": {

"application": {

"id": "60d21b4667d0d8992e610d10",

"status": "draft",

"updatedAt": "2022-05-07T09:45:00Z"

}

},

"message": "Application updated successfully"

}

**POST /api/applications/:applicationId/submit**

Submits an application.

**Response:**

{

"status": "success",

"data": {

"application": {

"id": "60d21b4667d0d8992e610d10",

"status": "submitted",

"submissionDate": "2022-05-10T08:30:00Z"

}

},

"message": "Application submitted successfully"

}

**POST /api/applications/:applicationId/payment**

Processes payment for an application fee.

**Request:**

{

"paymentMethod": "credit\_card",

"cardNumber": "4111111111111111",

"expiryMonth": "12",

"expiryYear": "2025",

"cvv": "123",

"cardholderName": "John Doe"

}

**Response:**

{

"status": "success",

"data": {

"payment": {

"amount": 75,

"currency": "USD",

"paymentDate": "2022-05-10T08:30:00Z",

"paymentMethod": "credit\_card",

"transactionId": "txn\_123456789",

"status": "completed"

}

},

"message": "Payment processed successfully"

}

**Communication Management**

**GET /api/messages**

Retrieves all messages for the student.

**Query Parameters:**

* page (number, optional): Page number for pagination
* limit (number, optional): Number of results per page

**Response:**

{

"status": "success",

"data": {

"messages": [

{

"id": "60d21b4667d0d8992e610d30",

"sender": {

"id": "60d21b4667d0d8992e610c93",

"name": "Jane Smith",

"role": "counselor"

},

"recipient": {

"id": "60d21b4667d0d8992e610c85",

"name": "John Doe",

"role": "student"

},

"subject": "Your Application Status",

"content": "Your application to University of Example has been submitted successfully.",

"timestamp": "2022-05-10T09:30:00Z",

"read": true,

"attachments": []

}

],

"pagination": {

"total": 15,

"page": 1,

"limit": 10,

"pages": 2

}

}

}

**POST /api/messages**

Sends a new message.

**Request:**

{

"recipient": "60d21b4667d0d8992e610c93",

"subject": "Question about application",

"content": "I have a question regarding my application to University of Example...",

"attachments": []

}

**Response:**

{

"status": "success",

"data": {

"message": {

"id": "60d21b4667d0d8992e610d31",

"timestamp": "2022-05-15T10:20:00Z"

}

},

"message": "Message sent successfully"

}

**GET /api/messages/:messageId**

Retrieves a specific message.

**Response:**

{

"status": "success",

"data": {

"message": {

"id": "60d21b4667d0d8992e610d30",

"sender": {

"id": "60d21b4667d0d8992e610c93",

"name": "Jane Smith",

"role": "counselor",

"avatar": "https://storage.intered.com/avatars/jane-smith.jpg"

},

"recipient": {

"id": "60d21b4667d0d8992e610c85",

"name": "John Doe",

"role": "student"

},

"subject": "Your Application Status",

"content": "Your application to University of Example has been submitted successfully.",

"timestamp": "2022-05-10T09:30:00Z",

"read": true,

"attachments": [],

"thread": [

{

"id": "