

# Freelance Job Manager Backend

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## Contents

<b>1</b>	<b>Installing and Running the Server</b>	<b>3</b>
<b>2</b>	<b>Updating the Server</b>	<b>3</b>
<b>3</b>	<b>Method Reference</b>	<b>3</b>
3.1	Session Methods . . . . .	3
3.1.1	Login . . . . .	3
3.1.2	Login as admin . . . . .	3
3.1.3	Login with Social Media . . . . .	4
3.2	User Methods . . . . .	4
3.2.1	User Registration . . . . .	4
3.2.2	Social Media Registration . . . . .	5
3.2.3	Read User . . . . .	5
3.2.4	Update user . . . . .	5
3.2.5	List Users . . . . .	5
3.2.6	User Update . . . . .	5
3.2.7	Delete User . . . . .	6
3.3	Freelancer Methods . . . . .	6
3.3.1	Freelancer Registration . . . . .	6
3.3.2	Social Media Registration . . . . .	6
3.3.3	Update Freelancer . . . . .	6
3.3.4	Read Freelancer . . . . .	6
3.3.5	List Freelancers . . . . .	6
3.3.6	List Freelancers by JobType and Location Area . . . . .	7
3.3.7	Delete Freelancer . . . . .	7
3.4	JobType Methods . . . . .	7
3.4.1	Create Job Type . . . . .	7
3.4.2	Update Job Type . . . . .	8

3.4.3	Read Job Type . . . . .	8
3.4.4	List Job Types . . . . .	8
3.4.5	Delete Job Type . . . . .	8
3.5	Location Methods . . . . .	8
3.5.1	Create Location . . . . .	8
3.5.2	Update Location . . . . .	9
3.5.3	Read Location . . . . .	9
3.5.4	List Locations . . . . .	9
3.5.5	Delete Location . . . . .	9
3.6	Job Methods . . . . .	9
3.6.1	Job Statuses . . . . .	9
3.6.2	Create Job Request . . . . .	10
3.6.3	Update Job Request . . . . .	10
3.6.4	Delete Job Request . . . . .	10
3.6.5	Delete Job by admin . . . . .	10
3.6.6	Read Job . . . . .	10
3.6.7	List All Jobs by Status . . . . .	10
3.6.8	List User Jobs by Status . . . . .	10
3.6.9	List Freelancer Jobs by Status . . . . .	10
3.6.10	List Open Jobs by JobType . . . . .	11
3.6.11	List Open Jobs by JobType and Location Area . . . . .	11
3.6.12	Request payment . . . . .	11
3.6.13	Bill job . . . . .	12
3.7	Subscription Methods . . . . .	12
3.7.1	Subscribe / Update subscription . . . . .	12
3.7.2	Accept subscription . . . . .	12
3.7.3	Delete subscription . . . . .	12
3.7.4	List Job subscribers . . . . .	12
3.7.5	List Freelancer Subscriptions . . . . .	12

## 1 Installing and Running the Server

- Unzip the archive (don't create a new folder)
- cd into the FreeJobServer directory
- Run start.bat. java.exe must be installed and on the path. If not, please edit start.bat and use the full java.exe path.

## 2 Updating the Server

- To stop the server enter **stop 0** on the console and then press ENTER.
- Unpack the update archive into the /bundle directory.
- Delete **felix-cache** directory
- Restart the server

## 3 Method Reference

The REST servlet is accessible at the following URL: localhost:48080/freejob  
Each method URL must be prefixed with this string.

### 3.1 Session Methods

#### 3.1.1 Login

**POST /sessions/login** Login as a customer or freelancer. Sample payload for customer login:

```
{
  "role" : "CUSTOMER",
  "email" : "johndoe.constantin@itsix.com",
  "password" : "mypassword"
}
```

#### 3.1.2 Login as admin

**POST /sessions/login** To login as admin, use the following credentials:

```
{
  "role" : "ADMIN",
  "email" : "admin@change.me",
  "password" : "change.me"
}
```

### 3.1.3 Login with Social Media

**POST /sessions/login/social** Login as a customer or freelancer using social media. Only the email and role are required (no password).

**RESPONSE** Sample for a customer login.

```
{
  "data": {
    "sessionId": "e8599496-7099-41b7-a554-65dfd38e02f2",
    "user": {
      "id": "5a6a7a5b-a66c-4cb8-bc61-14dea633a8ca",
      "firstName": "John",
      "lastName": "Doe ITSIX",
      "email": "johndoe.constantin@itsix.com",
      "role": "CUSTOMER",
      "password": null
    },
    "created": 1461337503669
  },
  "success": true,
  "message": null
}
```

## 3.2 User Methods

### 3.2.1 User Registration

**POST /users/register** Register a new user. Sample payload:

```
{
  "firstName" : "John",
  "lastName" : "Doe",
  "email" : "johndoe@example.org",
  "password" : "mypassword",
}
```

### 3.2.2 Social Media Registration

**POST** /users/register/social Register a new user. Login will work without a password.

### 3.2.3 Read User

**GET** /users/{userId} Read user.

### 3.2.4 Update user

**POST** /users Update user data

### 3.2.5 List Users

**GET** /users List all users. Sample response:

```
{
  "data": [
    {
      "id": "5fd2124b-3cf9-434a-97df-5b0af469a9f2",
      "firstName": "John",
      "lastName": "Doe",
      "email": "johndoe@example.org",
      "role": "USER",
      "password": null
    }
  ],
  "success": true,
  "message": null
}
```

### 3.2.6 User Update

**POST** /users Update user data. If id is null, a new user is created.  
Payload:

```
{
  "id": "5fd2124b-3cf9-434a-97df-5b0af469a9f2",
  "firstName": "John",
  "lastName": "Doe",
  "email": "johndoe@example.org",
  "role": "USER",
}
```

```
    "password": null
}
```

### 3.2.7 Delete User

**DELETE** /users/{userId} Delete a user.

## 3.3 Freelancer Methods

### 3.3.1 Freelancer Registration

**POST** /freelancers/register Register a new freelancer. Sample payload:

```
{
  "jobTypeId": "60243132-4316-4400-86aa-7b17c866584b",
  "firstName": "John",
  "lastName": "Doe",
  "email": "johndoe@example.org",
  "password": "some password",
}
```

### 3.3.2 Social Media Registration

**POST** /freelancers/register/social Register a new freelancer. Login will work without a password.

### 3.3.3 Update Freelancer

**POST** /freelancers Update freelancer

### 3.3.4 Read Freelancer

**GET** /freelancers/{freelancerId} Read freelancer.

### 3.3.5 List Freelancers

**GET** /freelancers List all freelancers. Sample response:

```
{
  "data": [
    {
      "id": "baf538a8-fbbe-4bdf-bc83-7819f60b0d62",
      "jobTypeId": "60243132-4316-4400-86aa-7b17c866584b",
    }
  ]
}
```

```

    "firstName": "John",
    "lastName": "Doe",
    "email": "johndoe@example.org",
    "password": null,
    "address": null,
    "latitude": null,
    "longitude": null,
    "city": null,
    "county": null,
    "avgRating": 0,
    "bankName": null,
    "accountNumber": null
  }
],
"success": true,
"message": null
}

```

### 3.3.6 List Freelancers by JobType and Location Area

**GET** /freelancers/jobtypes/{jobTypeId}/latitude/{latitude}/

longitude/{longitude}/range/{range} List all freelancers for a specific job type by location coordinates and a range in km.

### 3.3.7 Delete Freelancer

**DELETE** /freelancers/{freelancerId} Delete a freelancer.

## 3.4 JobType Methods

### 3.4.1 Create Job Type

**POST** /jobtypes Create a new job type. Sample payload:

```

{
  "name" : "Baby-Sitter",
  "description" : "Takes care of babies",
  "commission": 2.5
}

```

### 3.4.2 Update Job Type

**POST** /jobtypes

### 3.4.3 Read Job Type

**GET** /jobtypes/{jobTypeId} Read job type.

### 3.4.4 List Job Types

**GET** /jobtypes List all job types. Sample response:

```
{
  "data": [
    {
      "id": "60243132-4316-4400-86aa-7b17c866584b",
      "name": "Baby-Sitter",
      "description": "Takes care of babies",
      "commission" : 2.5
    }
  ],
  "success": true,
  "message": null
}
```

### 3.4.5 Delete Job Type

**DELETE** /jobtypes/{jobTypeId} Delete a job type.

## 3.5 Location Methods

### 3.5.1 Create Location

**POST** /users/{userId}/locations Create a new location for a user.

Sample payload:

```
{
  "name" : "Home",
  "address" : "Sesame Street 15",
  "city" : "Pielesti",
  "county" : "Dolj",
  "latitude" : 45.318266,
  "longitude" : 24.825482
}
```



### 3.5.2 Update Location

**POST** /users/{userId}/locations

### 3.5.3 Read Location

**GET** /users/{userId}/locations/{locationId} Read a location.

### 3.5.4 List Locations

**GET** /users/{userId}/locations List all locations of a user. Sample response:

```
{
  "data": [
    {
      "id": "364b5a88-6ebe-43da-8ebb-0035e1305d5a",
      "name": "Home",
      "userId": "5a6a7a5b-a66c-4cb8-bc61-14dea633a8ca",
      "address": "Sesame Street 15",
      "city": "Pielesti",
      "county": "Dolj",
      "latitude": 45.318266,
      "longitude": 24.825482
    }
  ],
  "success": true,
  "message": null
}
```

### 3.5.5 Delete Location

**DELETE** /users/{userId}/locations/{locationId} Delete a location for a user.

## 3.6 Job Methods

### 3.6.1 Job Statuses

**Valid Job statuses are** OPEN, ACCEPTED, ONGOING, FINISHED, PAYMENT\_REQUESTED, BILLED, CANCELLED

### 3.6.2 Create Job Request

**POST** /users/{userId}/jobs Create a new job request for a user. Sample payload:

```
{
  "title" : "Baby sitter request",
  "description" : "Need baby sitter for a 5 yr old.",
  "jobTypeId" : "e0d136eb-8e33-426d-aef3-a66ce5c668de",
  "locationId" : "364b5a88-6ebe-43da-8ebb-0035e1305d5a"
}
```

### 3.6.3 Update Job Request

**POST** /users/{userId}/jobs

### 3.6.4 Delete Job Request

**DELETE** /users/{userId}/jobs/{jobId} Delete a job request.

### 3.6.5 Delete Job by admin

**DELETE** /jobs/{jobId} Delete a job by admin.

### 3.6.6 Read Job

**GET** /users/{userId}/jobs/{jobId} Read job

### 3.6.7 List All Jobs by Status

**GET** /jobs?status={status} List all jobs. Optionally, a status may be specified.

### 3.6.8 List User Jobs by Status

**GET** /users/{userId}/jobs?status={status} List all jobs of a user. Optionally, a status may be specified.

### 3.6.9 List Freelancer Jobs by Status

**GET** /freelancers/{freelancerId}/jobs?status={status} List all jobs of a freelancer. Optionally, a status may be specified.

### 3.6.10 List Open Jobs by JobType

**GET** /jobtypes/{jobTypeId}/jobs List all open jobs of a specific type.

### 3.6.11 List Open Jobs by JobType and Location Area

**GET** /jobtypes/{jobTypeId}/jobs/latitude/{latitude}/

**longitude/{longitude}/range/{range}** List all open jobs of a specific type by location coordinates and a range in km.

Sample response:

```
{
  "data": [
    {
      "id": "6ec322a1-c190-4386-a17f-5ff9cb87b01c",
      "status": "OPEN",
      "title": "Baby sitter request",
      "description": "",
      "created": 1462883463063,
      "rating": 0,
      "jobTypeId": "e0d136eb-8e33-426d-aef3-a66ce5c668de",
      "freelancerId": null,
      "userId": "5a6a7a5b-a66c-4cb8-bc61-14dea633a8ca",
      "locationId": "364b5a88-6ebe-43da-8ebb-0035e1305d5a",
      "netAmount": 0.0,
      "total": 0.0,
      "latitude" : 45.318266,
      "longitude" : 24.825482
    }
  ],
  "success": true,
  "message": null
}
```

### 3.6.12 Request payment

**POST** /freelancers/{freelancerId}/jobs/{jobId}/netAmount/{netAmount}

Request payment for the job. Sets the netAmount, computes total and sets status to PAYMENT\_REQUESTED.

### 3.6.13 Bill job

**POST** /users/{userId}/jobs/{jobId}/rating/{rating} Rate a job after it has been paid. Sets BILLED status & rating.

## 3.7 Subscription Methods

### 3.7.1 Subscribe / Update subscription

**POST** /freelancers/{freelancerId}/jobs/{jobId}/subscriptions Subscribe to a job. This method can also be used to modify the subscription message.

Sample payload:

```
{
    "message" : "Some message from the freelancer"
}
```

### 3.7.2 Accept subscription

**POST** /users/{userId}/jobs/{jobId}/subscriptions/{freelancerId} Accept freelancer subscription. Sets ACCEPTED status and copies freelancerId and message to the job.

### 3.7.3 Delete subscription

**DELETE** /freelancers/{freelancerId}/jobs/{jobId}/subscriptions Delete subscription

### 3.7.4 List Job subscribers

**GET** /users/{userId}/jobs/{jobId}/subscriptions List all freelancer which subscribed to a job. Also retrieves the freelancer message.

### 3.7.5 List Freelancer Subscriptions

**GET** /freelancers/{freelancerId}/subscriptions List all freelancer subscribed jobs (only open jobs are returned).