Freelance Job Manager Backend

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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:
```

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

```
"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 Delete Freelancer
DELETE /freelancers/{freelancerId} Delete a freelancer.
     JobType Methods
3.4
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

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",
```

3.5.2 Update Location

}

POST /users/{userId}/locations

"latitude" : 45.318266, "longitude" : 24.825482

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

 ${f POST / users/\{userId\}/jobs}$ 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}/

 $\label{longitude} $$ longitude / {longitude} / {range} / {range} $$ 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 retrievs the freelancer message.

3.7.5 List Freelancer Subscriptions

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