# Freelance Job Manager Backend

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## May 12, 2016

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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"
}
```

**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 Read User
GET /users/{userId} Read user.
3.2.3 Update user
POST /users Update user data
3.2.4 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
}
```

## 3.2.5 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
}
```

#### 3.2.6 Delete User

}

DELETE /users/{userId} Delete a user.

#### Freelancer Methods 3.3

#### 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 Update Freelancer

POST /freelancers Update freelancer

#### 3.3.3 Read Freelancer

GET /freelancers/{freelancerId} Read freelancer.

#### 3.3.4 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
}
```

#### 3.3.5 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:

```
"message": null }
```

#### 3.5.5 Delete Location

 $\label{eq:def:Delete} DELETE / users / \{userId\} / locations / \{locationId\} \quad \text{Delete a location} \\ \text{for a user.}$ 

#### 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 Read Job

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

#### 3.6.6 List User Jobs by Status

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

#### 3.6.7 List Freelancer Jobs by Status

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

#### 3.6.8 List Open Jobs by JobType

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

#### 3.6.9 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
}
```

#### 3.6.10 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.

## 3.7 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

 $\label{lem:decomposition} DELETE\ / free lancer Id \}/ jobs/ \{job Id \}/ subscription \\ Delete subscription$ 

#### 3.7.4 List Job subscriptions

"message": "Some message from the freelancer"

} ],

}

"success": true,
"message": null