

INFORMATIKOS FAKULTETAS

**T120B165 Saityno taikomųjų programų projektavimas**

**Projekto „FLM“ ataskaita**

|  |  |
| --- | --- |
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# Sprendžiamo uždavinio aprašymas

## Sistemos paskirtis

Projekto tikslas – palengvinti naudotojui rasti laisvai samdomą darbuotoją(*freelancer*), bei pagerinti *freelancer* paiešką, teikiant informacinės sistemos paslaugas.

Veikimo principas – pačią kuriamą platformą sudaro dvi dalys: internetinė aplikacija, kuria naudosis laisvai samdomi darbuotojai, klientai, administratorius bei aplikacijų programavimo sąsaja (angl. trump. API).

Klientas, norėdamas naudotis šia platforma, prisiregistruos prie internetinės aplikacijos ir galės peržiūrėti laisvai samdomų darbuotojų sąrašą juos išfiltruoti ir išsirinkti kokios paslaugos jiems butų aktualios. Išsirinkus darbuotoją, klientas galės jį pasisamdyti. Samdomų darbuotojų ieškantys naudotojai galės įkelti savo skelbimą kuriame bus darbo aprašymas, siūloma pinigų suma už atliktą darba, bei kitos darba įvardijančios detalės. Taip pat galės įvertinti *freelancerio* atlikto darbo kokybę. Laisvai samdomas darbuotojas galės susikurti savo profilį pateikdamas savo asmeninę ir profesinę informaciją. Sistemos administratorius patvirtina samdomo darbuotojo tinkamumą tapti *freelanceriu*. Bei prižiūri, kad darbo skelbimai ir samdomų darbuotojų *portfolio* butų tinkami viešai skelbti. Darbuotojas ir *freelanceris* galės komunikuoti tarpusavyje pačios platformos žinučių sistemoje.

## Funkciniai reikalavimai

Neregistruotas sistemos naudotojas galės:

1. Peržiūrėti platformos reprezentacinį puslapį;
2. Prisijungti (užsiregistruoti) prie internetinės aplikacijos.

Klientas galės:

1. Atsijungti nuo internetinės aplikacijos;
2. Prisijungti (užsiregistruoti) prie platformos;
3. Paskelbti siūlomą darbą;
4. Peržiūrėti samdomus darbuotojus ir juos išfiltruoti pagal norimus kriterijus;
5. Pasisamdyti darbuotoją;
6. Sumoketi darbuotojui;
7. Įvertinti samdomus darbuotojus;
8. Peržiūrėti pasamdytus darbuotojus ir sumokėti jiems už atliktą darbą;
9. Komunikuoti su darbuotojais sistemoje;

Samdomas darbuotojas galės:

1. Atsijungti nuo internetinės aplikacijos;
2. Prisijungti (užsiregistruoti) prie platformos;
3. Sudaryti savo *portfolio*;
4. Paskelbti savo siūlomas paslaugas;
5. Peržiūrėti siūlomus darbus ir juos išfiltruoti pagal norimus kriterijus;
6. Komunikuoti su klientais sistemoje;

Administratorius galės:

1. Patvirtinti naudotojo registraciją ir darbo skelbimus.
2. Patvirtinti samdomu darbuotojus ir darbo skelbimus.
3. Šalinti naudotojus ir netinkamus darbo skelbimus.

# Sistemos architektūra

Sistemos sudedamosios dalys:

* 1. Kliento pusė (ang. Front-End) – naudojant Vue.js;
  2. Serverio pusė (angl. Back-End) – naudojant PHP Laravel. Duomenų bazė – MySQL.

2.1 pav. pavaizduota kuriamos sistemos diegimo diagrama. Sistemos talpinimui yra naudojamas Azure serveris. Kiekviena sistemos dalis yra diegiama tame pačiame serveryje. Internetinė aplikacija yra pasiekiama per HTTPS protokolą. Šios sistemos veikimui (pvz., duomenų manipuliavimui su duomenų baze) yra reikalingas Freelance API, kuris pasiekiamas per aplikacijų programavimo sąsają. Pats Freelance API vykdo duomenų mainus su duomenų baze - tam naudojama ORM sąsaja.

A computer screen shot of a computer

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1.1 pav. Sistemos Freelance diegimo diagrama

# Naudotojo sąsajos langai

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2.1 pav. Pagrindinis langas

A screenshot of a login box

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2.2 pav. Prisijungimo langas

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2.3 pav. Registracijos langas

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2.4 pav. Kliento sąsajos langas

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2.5 pav. Profilio langas

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2.6 pav. Pokalbių langas su pokalbių modalu

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2.7 pav. Darbo skelbimo sukūrimo langas

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2.8 pav. Dar nepasamdytų freelanceriu langas

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2.9 pav. Pasamdytų freelanceriu langas

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2.10 pav. Specifinio freelancerio langas

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2.11 pav. Atliktų transakcijų langas

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2.12 pav. Kliento sukurtų darbų langas

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2.13 pav. Specifinio darbo langas

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2.14 pav. Freelanceriui matomų darbų langas

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2.15 pav. Freelancerio portfolio langas

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2.16 pav. Admin sąsajos darbų priėmimo/šalinimo langas

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2.17 pav. Admin sąsajos sistemos naudotojų langas

# API Specifikacija

## Neautentifikuoti API endpoints.

**POST metodai:**

*Prisijungimas*:

https://flm-web-5e328f44f810.herokuapp.com/api/login

Galimi response codes: 200, 401.

JSON Body parametrai: username, password.

Rezultatai:

A screenshot of a computer

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*Registracija*:

<https://flm-web-5e328f44f810.herokuapp.com/api/users>

Galimi response codes: 200, 400, 406

JSON Body parametrai: username, password, surname, name, role, picture

Rezultatai:

A screenshot of a computer

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A screenshot of a computer

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## Autetifikuoti API endpoints

## Users API endpoints

**Users GET API endpoints.**

*Atrenkami freelanceriai, kurie atitinka filtro kriterijus, bei dar nebuvo priimti į darba:*

<https://flm-web-5e328f44f810.herokuapp.com/api/freelancers>

Galimi response codes: 200

Rezultatai:

[

    {

        "id": 16,

        "freelancer\_id": 7,

        "client\_id": 1,

        "job\_id": 1,

        "hire\_date": "2023-11-30 15:39:33",

        "confirmed": 0,

        "job\_title": "Web Developer",

        "freelancer": {

            "id": 7,

            "username": "asd3",

            "name": "Freelancer",

            "surname": "Freelancer",

            "role": 2,

            "rating": **null**,

            "confirmed\_registration": 0,

            "created\_at": "2023-11-30T15:28:05.000000Z",

            "updated\_at": "2023-11-30T15:28:05.000000Z",

            "profile": {

                "id": 7,

                "country": "",

                "address": "",

                "profile\_picture": "",

                "iban": "",

                "user\_id": 7,

                "posted": 0

            },

            "portfolio": {

                "id": 5,

                "resume": "",

                "work\_fields": "",

                "work\_experience": **null**,

                "user\_id": 7,

                "posted\_time": "2023-11-30",

                "posted": 0

            },

            "ratings": []

        }

    }

]

*Tikrinama ar naudotojas autetifikuotas:*

https://flm-web-5e328f44f810.herokuapp.com/api/auth

Galimi response codes: 200

Rezultatai:

{

    "user": {

        "id": 1,

        "username": "asd",

        "name": "Client",

        "surname": "Client",

        "role": 1,

        "rating": 0

    }

}

*Atsijungimas nuo sistemos:*

<https://flm-web-5e328f44f810.herokuapp.com/api/logout>

Galimi response codes: 200

Rezultatai:

{

    "status": **true**,

    "message": "User logged out successfully"

}

*Gaunami visi sistemos naudotojai:*

<https://flm-web-5e328f44f810.herokuapp.com/api/users>

Galimi response codes: 200

Rezultatai:

[

    {

        "id": 1,

        "username": "asd",

        "name": "Client",

        "surname": "Client",

        "role": 1,

        "rating": **null**,

        "confirmed\_registration": 1,

        "created\_at": "2023-11-23T16:01:30.000000Z",

        "updated\_at": "2023-11-23T16:02:36.000000Z"

    },

    {

        "id": 3,

        "username": "admin",

        "name": "admin",

        "surname": "admin",

        "role": 200,

        "rating": **null**,

        "confirmed\_registration": 1,

        "created\_at": "2023-11-23T16:02:16.000000Z",

        "updated\_at": "2023-11-23T16:02:16.000000Z"

    },

    {

        "id": 7,

        "username": "asd3",

        "name": "Freelancer",

        "surname": "Freelancer",

        "role": 2,

        "rating": **null**,

        "confirmed\_registration": 1,

        "created\_at": "2023-11-30T15:28:05.000000Z",

        "updated\_at": "2023-11-30T15:28:05.000000Z"

    }

]

*Gaunamas specifinis naudotojas pagal jo id:*

<https://flm-web-5e328f44f810.herokuapp.com/api/users/{user_id}>

Galimi response codes: 200, 404

Rezultatai:

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A screenshot of a computer

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**Users PATCH API endpoints.**

*Naudotojo patvirtinimas:*

<https://flm-web-5e328f44f810.herokuapp.com/api/users/{user_id}>

Galimi response codes: 200

Rezultatai:

A screenshot of a phone

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**Users PUT API endpoints.**

*Atnaujinamas naudotojo reitingas:*

<https://flm-web-5e328f44f810.herokuapp.com/api/users/{user_id}>

Galimi response codes: 200, 400

Rezultatai:

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**User DELETE API endpoints.**

*Naudotojo pašalinimas iš sistemos:*

<https://flm-web-5e328f44f810.herokuapp.com/api/users/{user_id}>

Galimi response codes: 200, 400

Rezultatai:

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## Profiles API endpoints

**Profiles GET API endpoints**

Profiliai:

<https://flm-web-5e328f44f810.herokuapp.com/api/profiles>

Galimi response codes: 200

Rezultatai:

[

    {

        "country": "Lithuania",

        "address": "asdasd",

        "iban": "asdasd1",

        "user\_id": 1,

        "posted": 1

    },

    {

        "country": "",

        "address": "",

        "iban": "",

        "user\_id": 3,

        "posted": 0

    },

    {

        "country": "",

        "address": "",

        "iban": "",

        "user\_id": 7,

        "posted": 0

    }

]

Naudotojo profilis:

<https://flm-web-5e328f44f810.herokuapp.com/api/profiles/{user_id}>

Galimi response codes: 200, 404

Rezultatai:

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**Profiles POST API endpoints.**

*Atnaujinama profilio informacija:*

<https://flm-web-5e328f44f810.herokuapp.com/api/profiles/{user_id}>

Galimi response codes: 200, 404, 406

JSON body parametrai: country, address, iban, picture(optional)

Rezultatai:

["Updated successfully"]

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**Profiles DELETE API endpoints.**

*Pašalinamas prodiflis:*

<https://flm-web-5e328f44f810.herokuapp.com/api/profiles/{user_id}>

Galimi response codes: 200, 404

Rezultatai:

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## Portfolios API endpoints

**Portfolios GET API endpoints**

Portfolios:

<https://flm-web-5e328f44f810.herokuapp.com/api/portfolios>

Galimi response codes: 200

Rezultatai:

[

    {

        "id": 5,

        "resume": "",

        "work\_fields": "",

        "work\_experience": **null**,

        "user\_id": 7,

        "posted\_time": "2023-11-30",

        "posted": 0

    }

]

Naudotojo portfolio:

<https://flm-web-5e328f44f810.herokuapp.com/api/portfolios/{user_id}>

Galimi response codes: 200, 404

Rezultatai:

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**Portfolios POST API endpoints.**

Sukuriamas naudotojo portfolio:

https://flm-web-5e328f44f810.herokuapp.com/api/portfolios

Galimi response codes: 200, 406

JSON body parametrai: resume, work\_fields, user\_id

Rezultatai:

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**Portfolios PUT API endpoints.**

Atnaujinamas naudotojo portfolio:

[https://flm-web-5e328f44f810.herokuapp.com/api/portfolios/{user\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/portfolios/%7buser_id%7d)

Galimi response codes: 200, 404, 406

JSON body parametrai: resume, selectedWorkFields, selectedExperience

Rezultatai:

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**Portfolios DELETE API endpoints.**

Šalinamas naudotojo portfolio:

[https://flm-web-5e328f44f810.herokuapp.com/api/portfolios/{user\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/portfolios/%7buser_id%7d)

Galimi response codes: 200, 404

Rezultatai:

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## Ratings API endpoints

**Ratings GET API endpoints**

*Reitingai:*

<https://flm-web-5e328f44f810.herokuapp.com/api/ratings>

Galimi response codes: 200

Rezultatai:

[

    {

        "id": 3,

        "client\_id": 1,

        "freelancer\_id": 7,

        "rating": 9

    }

]

*Freelancerio reitingas:*

[https://flm-web-5e328f44f810.herokuapp.com/api/ratings/{freelancer\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/ratings/%7bfreelancer_id%7d)

Galimi response codes: 200

Rezultatai:

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*Gaunamas cliento-freelancerio reitingas:*

[https://flm-web-5e328f44f810.herokuapp.com/api/ratings/{freelancer\_id}/{client\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/ratings/%7bfreelancer_id%7d/%7bclient_id%7d)

Galimi response codes: 200

Rezultatai:

A screenshot of a computer

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**Ratings POST API endpoints.**

*Suteikiamas reitingas freelanceriui:*

[https://flm-web-5e328f44f810.herokuapp.com/api/ratings/{freelancer\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/ratings/%7bfreelancer_id%7d)

Galimi response codes: 200, 406

JSON Body parametrai: client\_id, freelancer\_id, rating

Rezultatai:

A screenshot of a computer

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**Ratings PUT API endpoints.**

*Atnaujinamas freelancerio reitingas:*

[https://flm-web-5e328f44f810.herokuapp.com/api/ratings/{freelancer\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/ratings/%7bfreelancer_id%7d)

Galimi response codes: 200, 404, 406

JSON Body parametrai: rating

Rezultatai:

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**Ratings DELETE API endpoints.**

*Reitingo šalinimas:*

[https://flm-web-5e328f44f810.herokuapp.com/api/ratings/{rating\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/ratings/%7brating_id%7d)

Galimi response codes: 200, 404

Rezultatai:

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## Chats API endpoints

**Chats GET API endpoints**

*Gaunamas specifinis pokalbis:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/chats/{chat\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/chats/%7bchat_id%7d)

Galimi response codes: 200, 404

Rezultatai:

A screenshot of a computer

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A screenshot of a chat

Description automatically generated

*Gaunami visi pokalbiai:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/chats](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/chats)

Galimi response codes: 200, 404

Rezultatai:

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A screenshot of a computer

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**Chats POST API endpoints**

*Sukuriamas pokalbis:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/{receiver}/chats](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/%7breceiver%7d/chats)

Galimi response codes: 200, 404

Rezultatai:

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A screenshot of a phone

Description automatically generated

**Chats PUT API endpoints**

*Atnaujinamas pokalbis, pakeiciama reiksme deleted į true:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/chats/{chat\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/chats/%7bchat_id%7d)

Galimi response codes: 200, 404

Rezultatai:

A screenshot of a computer

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A screenshot of a phone

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**Chats DELETE API endpoints**

*Pašalinamas pokalbis:*

<https://flm-web-5e328f44f810.herokuapp.com/api/register>

Galimi response codes: 200, 400, 404

Rezultatai:

A screenshot of a computer

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A screenshot of a chat

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A screenshot of a computer

Description automatically generated

## Messages API endpoints

**Messages GET API endpoints**

*Gaunama pokalbio žinutės:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/chats/{chat\_id}/messages](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/chats/%7bchat_id%7d/messages)

Galimi response codes: 200, 404

Rezultatai:

A screenshot of a computer code

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A screenshot of a phone

Description automatically generated

*Gaunama pokalbio žinutė:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/chats/{chat\_id}/messages/{message\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/chats/%7bchat_id%7d/messages/%7bmessage_id%7d)

Galimi response codes: 200, 404

Rezultatai:

A screenshot of a computer

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A screenshot of a chat message

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**Messages POST API endpoints**

*Išsiunčiam žinutė į pokalbį:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/chats/{chat\_id}/messages](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/chats/%7bchat_id%7d/messages)

Galimi response codes: 200, 404, 406

JSON Body parametrai: text

Rezultatai:

A screenshot of a computer

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A screenshot of a chat

Description automatically generated

A screenshot of a computer

Description automatically generated

**Messages PUT API endpoints**

*Atnaujinama žinutė:*

<https://flm-web-5e328f44f810.herokuapp.com/api/register>

Galimi response codes: 200, 404, 406

JSON Body parametrai: text

Rezultatai:

A screenshot of a computer

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A screenshot of a phone

Description automatically generated

A screenshot of a phone

Description automatically generated

**Messages DELETE API endpoints**

*Žinutės ištrinimas:*

<https://flm-web-5e328f44f810.herokuapp.com/api/register>

Galimi response codes: 200, 404

Rezultatai:

A screenshot of a computer

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A screenshot of a chat

Description automatically generated

## Jobs API endpoints

**Jobs GET API endpoints**

*Gaunami visi darbai, kuriuos patvirtino administratorius:*

<https://flm-web-5e328f44f810.herokuapp.com/api/jobs>

Galimi response codes: 200

Query parametrai: payFrom, payTo, selectedWorkFields

Rezultatai:

A screenshot of a computer

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*Gaunamas specifinis darbas:*

[https://flm-web-5e328f44f810.herokuapp.com/api/show\_job/{user\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/show_job/%7buser_id%7d)

Galimi response codes: 200, 404

Rezultatai:

A screenshot of a computer program

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A screenshot of a computer

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**Jobs POST API endpoints**

*Naujo darbo pridėjimas į sistemą:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/jobs](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/jobs)

Galimi response codes: 200, 406

JSON Body parametrai: description, work\_fields, pay\_amount

Rezultatai:

A screenshot of a phone

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**Jobs PUT API endpoints**

*Darbo atnaujinimas:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/jobs/{job\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/jobs/%7bjob_id%7d)

Galimi response codes: 200, 404, 406

JSON Body parametrai: transaction\_id

Rezultatai:

A screenshot of a phone

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**Jobs PATCH API endpoints**

*Darbo patvirtinimas:*

[https://flm-web-5e328f44f810.herokuapp.com/api/jobs/{job\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/jobs/%7bjob_id%7d)

Galimi response codes: 200

Rezultatai:

A screenshot of a computer

Description automatically generated

**Jobs DELETE API endpoints**

*Darbo šalinimas iš sistemos:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/jobs/{job\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/jobs/%7bjob_id%7d)

Galimi response codes: 200, 404

Rezultatai:

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## Transactions API endpoints

**Transactions GET API endpoints**

*Gaunamos visos transakcijos:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/jobs/{job\_id}/transactions](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/jobs/%7bjob_id%7d/transactions)

Galimi response codes: 200, 404

Rezultatai:

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*Gaunama specifinė transakcija:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/jobs/{job\_id}/transactions/{transaction\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/jobs/%7bjob_id%7d/transactions/%7btransaction_id%7d)

Galimi response codes: 200, 404

Rezultatai:

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**Transactions POST API endpoints**

*Sukuriama transakcija:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/jobs/{job\_id}/transactions](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/jobs/%7bjob_id%7d/transactions)

Galimi response codes: 200, 404, 406

JSON Body parametrai: amount, receiver

Rezultatai:

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**Transactions PUT API endpoints**

*Atnaujinama transakcija, ji yra užbaigiama:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/jobs/{job\_id}/transactions/{transaction\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/jobs/%7bjob_id%7d/transactions/%7btransaction_id%7d)

Galimi response codes: 200, 404

Rezultatai:

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**Transactions DELETE API endpoints**

*Ištrinama transakcija:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/jobs/{job\_id}/transactions/{transaction\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/jobs/%7bjob_id%7d/transactions/%7btransaction_id%7d)

Galimi response codes: 200, 404

Rezultatai:

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## Hired Freelancers API endpoints

**Hired Freelancers GET API endpoints**

*Gaunami visi pasamdyti freelanceriai:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/jobs/{job\_id}/hiredfreelancers](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/jobs/%7bjob_id%7d/hiredfreelancers/%7bhired_freelancer_id%7d)

Galimi response codes: 200, 404

Rezultatai:

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*Gaunamas vienas pasamdytas freelanceris:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/jobs/{job\_id}/hiredfreelancers/{hired\_freelancer\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/jobs/%7bjob_id%7d/hiredfreelancers/%7bhired_freelancer_id%7d)

Galimi response codes: 200, 404

Rezultatai:

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**Hired Freelancers POST API endpoints**

*Sukuriamas pasamdytas freelanceris:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/jobs/{job\_id}/hiredfreelancers](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/jobs/%7bjob_id%7d/hiredfreelancers/%7bhired_freelancer_id%7d)

Galimi response codes: 200, 404, 406

JSON Body parametrai: client\_id

Rezultatai:

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**Hired Freelancers PUT API endpoints**

*Atnaujinamas pasamdytas freelanceris:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/jobs/{job\_id}/hiredfreelancers/{hired\_freelancer\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/jobs/%7bjob_id%7d/hiredfreelancers/%7bhired_freelancer_id%7d)

Galimi response codes: 200, 404

Rezultatai:

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**Hired Freelancers DELETE API endpoints**

*Pašalinamas pasamdytas freelanceris:*

[https://flm-web-5e328f44f810.herokuapp.com/api/users/{user\_id}/jobs/{job\_id}/hiredfreelancers/{hired\_freelancer\_id}](https://flm-web-5e328f44f810.herokuapp.com/api/users/%7buser_id%7d/jobs/%7bjob_id%7d/hiredfreelancers/%7bhired_freelancer_id%7d)

Galimi response codes: 200, 404

Rezultatai:

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# Išvados

Atlikus laboratorinį darba įgilinau savo žinias apie patį REST api principą ir kaip jį reikėtų taisyklingai sukurti, bei pritaikyti kuriant web aplikaciją. Sužinojau kaip galima pritaikyti JWT token autentifikacijai ir autorizacijai. Laboratorinio darbo metu susiduriau su didžiausia problema, jog naudojant JWT biblioteką tokenui sukurti, biblioteka naudoja sveikojo skaičiau tipo stulpeliams realizuoti. Tai reiškia, jog negalima naudoti nieko kito apart sveikojo skaičiaus, kitaip biblioteka neveiks ir labai sunku bus rasti kur yra problema.