

PA: Product and Presentation

A9: Product

UniLinks is a project developed as a product targeted at college students as a way of helping them integrate easier. The main goal of the project is the development of a web-based social network for enabling students to interact with each other in an academic context. This is a tool that can be used by students and other members of the academic environment.

1. Installation

Release: <https://git.fe.up.pt/lbaw/lbaw2223/lbaw2222/-/releases/PA>

To run the docker container write:

```
docker run git.fe.up.pt:5050/lbaw/lbaw2223/lbaw2222
```

2. Usage

URL: <http://lbaw2222.lbaw.fe.up.pt>

2.1. Administration Credentials

Administration URL: <http://localhost:8000/users>

Username	Password
conta@admin.pt	apple1234

2.2. User Credentials

Type	Username	Password
basic account	up202006767@g.uporto.pt	palavrapasse2
basic account	jorge@mail.pt	broademilho

3. Application Help

There are no contextual hints present. However, the input validation acts as a guide for user input and the product is, overall, self-explanatory, with most of the hyperlinks containing text explaining what resource the user is accessing.

For more information about input validation see the next section.

4. Input Validation

Input Validation is handled using Laravel's validator as shown below.

Input Validation Examples:

Account Tag

ContaNova

E-Mail (use educational email for premium verification)

joaoartur

Please include an '@' in the email address. 'joaoartur' is missing an '@'.

...

Account Tag

AIFAvila

The accounttag has already been taken.

E-Mail (use educational email for premium verification)

joaoartur@mail.com

Password

The password must be at least 6 characters.

The code for this specific case (user register):

```
/**
 * Get a validator for an incoming registration request.
 *
 * @param array $data
 * @return \Illuminate\Contracts\Validation\Validator
 */
protected function validator(array $data)
{
    return Validator::make($data, [
        'accounttag' => 'required|unique:App\Models\User,account_tag|string|min:1|max:254|regex:/^[a-zA-Z][a-zA-Z0-9-]*$/',
        'email' => 'required|string|email|max:255|unique:account|regex:/[a-zA-Z0-9]*@[a-zA-Z0-9](?>\.[a-zA-Z]+)+/',
        'password' => 'required|string|min:6|confirmed',
        'birthday' => 'required|string',
        'university' => 'required|string|max:255',
        'course' => 'required|string|max:255'
    ]);
}
```

5. Check Accessibility and Usability

Accessibility: [Sapo Accesseebility](#)

Usability: [Sapo Usability](#)

6. HTML & CSS Validation

HTML: <https://validator.w3.org/nu/> CSS: <https://jigsaw.w3.org/css-validator/>

Unfortunately, as we weren't able to deploy the project to feup's servers, we weren't able to validate the HTML and CCS code yet.

7. Revisions to the Project

Updated the openapi.yaml file because of how the implementation of the routes mentioned required them to be in order to become more organized. Changed the credentials used for the admin and regular user accounts to match the rules defined by us previously.

8. Web Resources Specification

```
openapi: 3.0.0

info:
  version: "2.0"
  title: "UniLinks Web API"
  description: "Web Resources Specification (A7) for UniLinks"

servers:
  - url: https://lbaw.fe.up.pt
    description: Production server

security: []

externalDocs:
  description: Find more info here.
  url: https://git.fe.up.pt/lbaw/lbaw2223/lbaw2222/-/wikis/Home

tags:
  - name: "M01"
    description: "Authentication and Individual Profile"
  - name: "M02"
    description: "User Administration"
  - name: "M03"
    description: "Content"
  - name: "M04"
    description: "Content Review"
  - name: "M05"
    description: "User relationship"
  - name: "M06"
    description: "Static content"

components:
  securitySchemes:
    cookieuser:
      type: apiKey
      in: cookie
      name: SESSIONID #cookie used to save session id

paths:
  ##### M1 Authentication and Individual Profile #####
  /login:
    get:
      operationId: R101
      summary: "R101: Login Form"
      description: "Provide login form. Access: PUB"
```

```

tags:
  - "M01"
responses:
  "200":
    description: "Ok. Show log-in UI"
post:
  operationId: R102
  summary: "R102: Login Action"
  description: "Processes login credentials (form input) Access: PUB"
  tags:
    - "M01"
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            email:
              type: string
            password:
              type: string
            _token:
              type: string
          required:
            - email
            - password
            - _token
  responses:
    "302":
      description: "Redirect after processing the login credentials."
      headers:
        Location:
          schema:
            type: string
          examples:
            302Success:
              description: "Successful authentication. Redirect to user profile."
              value: "/feed"
            302Error:
              description: "Failed authentication. Redirect to login form."
              value: "/login"
      Set-cookie:
        schema:
          type: string
          description: sessionID
          example: SESSIONID=abcde12345; Secure; Path=/; HttpOnly; SameSite=Strict

/logout:
get:
  security:
    - cookieuser: []
  operationId: R103
  summary: "R103: Logout Action"
  description: "Logout the current authenticated user. Access: Authenticated-USR, ADM"
  tags:
    - "M01"
  responses:
    "302":
      description: "Redirect after processing logout."
      headers:
        Location:
          schema:
            type: string
          examples:
            302Success:
              description: "Successful logout. Redirect to main page"
              value: "/"
      Set-cookie:
        schema:
          type: string
          description: Delete sessionID
          example: SESSIONID=""; Max-Age=0; Secure; Path=/; HttpOnly; SameSite=Strict

/register:
get:
  operationId: R104
  summary: "R104: Register Form"
  description: "Provide new user registration form. Access: PUB"
  tags:
    - "M01"

```

```

responses:
  "200":
    description: "Ok. Show sign-up UI"
post:
  operationId: R105
  summary: "R105: Register Action"
  description: "Processes the new user registration form submission. Access: PUB"
  tags:
    - "M01"
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            username:
              type: string
            name:
              type: string
            email:
              type: string
            birthday:
              type: string
            privacy:
              type: string
            university:
              type: string
            course:
              type: string
            password:
              type: string
            _token:
              type: string
          required:
            - username
            - name
            - email
            - password
            - birthday
            - university
            - course
            - privacy
            - _token

responses:
  "302":
    description: "Redirect after processing the new user information."
    headers:
      Location:
        schema:
          type: string
        examples:
          302Success:
            description: "Successful authentication. Redirect to user profile."
            value: "/{account_tag}"
          302Failure:
            description: "Failed authentication. Redirect to main page."
            value: "/"
      Set-cookie:
        schema:
          type: string
          description: sessionID
          example: SESSIONID=abcde12345; Secure; Path=/; HttpOnly; SameSite=Strict

/endregistration:
get:
  operationId: R114
  summary: "R114: Extra information register form"
  description: "Provide registration form with fields for extra information (name, privacy, location, description). Access: PUB"
  tags:
    - "M01"
  responses:
    "200":
      description: "Ok. Show extra information form UI"
post:
  operationId: R113
  summary: "R113: End Registration Action"
  description: "Processes the extra information to complete user registration (name, privacy, location, description). Access: PUB"
  tags:
    - "M01"

```

```

requestBody:
  required: true
  content:
    application/x-www-form-urlencoded:
      schema:
        type: object
        properties:
          name:
            type: string
          privacy:
            type: string
          location:
            type: string
          description:
            type: string
          _token:
            type: string
        required:
          - _token

responses:
  "302":
    description: "Redirect after processing the extra information register."
    headers:
      Location:
        schema:
          type: string
    examples:
      302Success:
        description: "Successful authentication. Redirect to timeline."
        value: "/timeline"
      302Failure:
        description: "Failed authentication. Redirect to main page."
        value: "/"

/recover_password:
  get:
    operationId: R106
    summary: "R106: Recover Password Form"
    description: "Provide un-authenticated user registration form. Access: PUB"
    tags:
      - "M01"
    responses:
      "200":
        description: "Ok. Show recover-password UI"

  post:
    operationId: R107
    summary: "R107: Recover Password Action"
    description: "Processes recover account credentials (email input) Access: PUB"
    tags:
      - "M01"
    requestBody:
      required: true
      content:
        application/x-www-form-urlencoded:
          schema:
            type: object
            properties:
              email:
                type: string
              _token:
                type: string
            required:
              - email
              - _token
    responses:
      "302":
        description: "Redirect after processing the recover account credentials."
        headers:
          Location:
            schema:
              type: string
        examples:
          302Success:
            description: "There is an account with that email. Redirect to security-email-code authentication and password change form."
            value: "/recover_password/change_password"
          302Error:
            description: "There is no account with that email. Redirect to main page."
            value: "/"
        Set-cookie:
          schema:

```

```

        type: string
        description: Save Recover Email
        example: recoverEmail=up202005454@fe.up.pt; Secure; Path=/; HttpOnly; SameSite=Strict
/recover_password/change_password:
get:
  operationId: R108
  summary: "R108: Recover Password Part 2 Action"
  description: "Provide user form for account recovery token and new password. Access: PUB"
  tags:
    - "M01"
  parameters:
    - in: cookie
      name: recoverEmail
      schema:
        type: string

  responses:
    "200":
      description: "Ok. Show recovery email-token and new-password UI"
post:
  operationId: R109
  summary: "R109: Recover Password Part 2 Action"
  description: "Check email token and, if authentication is successful, change user password to new password Access: PUB"
  tags:
    - "M01"
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            email:
              type: string
            _token: #csrf token
              type: string
            recovery_code: #email token
              type: string
            new_password:
              type: string
          required:
            - email
            - _token
            - recovery_code
            - new_password
  responses:
    "302":
      description: "Redirect after processing the recovery credentials."
      headers:
        Location:
          schema:
            type: string
      examples:
        302Success:
          description: "Email recovery code validation and password change successful. Redirect to main-page."
          value: "/"
        302Error:
          description: "Error changing passwords. Redirect to main-page."
          value: "/"

/user/{id}:
get:
  security:
    - cookieuser: [] #administrator can see any account
  operationId: R110
  summary: "R110: View user profile"
  description: "Show the individual user profile. Access: Authenticated-USR, ADM"
  tags:
    - "M01"
  parameters:
    - in: path
      name: id
      schema:
        type: integer
      required: true
  responses:
    "302":
      description: "Redirect to /user/{account_tag}"
      headers:
        Location:
          schema:

```

```

        type: string
      examples:
        302Error:
          description: "Redirect to /user/{account_tag}"
          value: "/user/{account_tag}"
    post:
      operationId: R112
      security:
        - cookieuser: []
      summary: "R112: Edit profile"
      description: "Change profile parts. Access: Authenticated-USR, ADM"
      tags:
        - "M01"
      requestBody:
        required: true
        content:
          multipart/form-data: # necessary for photos
            schema:
              properties:
                new_username:
                  type: string
                new_name:
                  type: string
                new_email:
                  type: string
                new_birthday:
                  type: string
                new_privacy:
                  type: string
                new_university:
                  type: string
                new_course:
                  type: string
                new_password:
                  type: string
                new_description:
                  type: string
                new_location:
                  type: string
                new_pronouns:
                  type: string
                _token: #csrf
                  type: string
                image: #profile_picture
                  type: string
                  format: binary

              required:
                - _token

      responses:
        "302":
          description: "Redirect after processing the recovery credentials."
          headers:
            Location:
              schema:
                type: string
              examples:
                302Success:
                  description: "Profile change successful. Redirect to profile."
                  value: "/{account_tag}"
                302Error:
                  description: "Error changing profile. Redirect to profile."
                  value: "/{account_tag}"

/user/{account_tag}:
  get:
    security:
      - cookieuser: [] #administrator can see any account
    operationId: R110
    summary: "R110: View user profile"
    description: "Show the individual user profile. Access: Authenticated-USR, ADM"
    tags:
      - "M01"
    parameters:
      - in: path
        name: account_tag
        schema:
          type: string
        required: true
    responses:

```

```
"200":
  description: "Ok. Show view profile UI"
"302":
  description: "Non-existent/Private profile"
  headers:
    Location:
      schema:
        type: string
  examples:
    302Error:
      description: "Forbidden profile. Redirect to homepage"
      value: "/"
```

M2 User Administration

/api/user/search:

```
get:
  security:
    - cookieuser: []
  operationId: R201
  summary: "R201: Search for users tags"
  description: "Search and list user tags. Access: Authenticated-USR, ADM"
  tags:
    - "M02"
  parameters:
    - in: query
      name: account_tag
      schema:
        type: string
      required: true
  responses:
    "200":
      description: "Ok. Show users with that user_tag (or part)" #admins can search all users
```

/user/{account_tag}/action:

```
post:
  security:
    - cookieuser: [] #only admin can delete or unblock/block any account (user can only delete his own account)
  operationId: R202
  summary: "R202: Block/Unblock/Delete Account"
  description: "Only admin can delete or unblock/block any account and user can only delete his own account. Access: Authenticated-USR, ADM"
  tags:
    - "M02"
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            operation:
              type: string
              pattern: ^(block)|(unblock)|(delete)$
            _token:
              type: string
          required:
            - operation
            - _token
  responses:
    "302":
      description: "Redirect after processing the action."
      headers:
        Location:
          schema:
            type: string
      examples:
        302UserDeleteSuccess:
          description: "Your account was deleted successfully. Redirect to logout"
          value: "/logout"
        302AdminDeleteSuccess:
          description: "User account was deleted successfully. Redirect to usersearch"
          value: "/usersearch?account_tag="
        302Admin(Un)BlockSuccess:
          description: "User account block action successfull. Redirect to user profile"
          value: "/{account_tag}"
        302Error:
          description: "Error. Redirect to main-page."
          value: "/"
```

M3 Content

/post content search:


```
get:
  security:
    - cookieuser: []
  operationId: R301
  summary: "R301: Search for posts content"
  description: "Search and list posts according to text search. Access: Authenticated-USR, ADM"
  tags:
    - "M03"
  parameters:
    - in: header
      name: text_search
      schema:
        type: string
      required: true
  responses:
    "200":
      description: "Ok. Show posts with that content (or part)" #admins can search all posts
```

```
/timeline:
  get:
    security:
      - cookieuser: []
    operationId: R302
    summary: "R302: View Feed"
    description: "Show the current logged user's feed. Access: Authenticated-USR, ADM"
    tags:
      - "M03"
    responses:
      "200":
        description: "Ok. Show feed"
```

```
/post/new:
  post:
    operationId: R304
    security:
      - cookieuser: []
    summary: "R304: Create Post"
    description: "Create new post. Access: Authenticated-USR, ADM"
    tags:
      - "M03"
    requestBody:
      required: true
      content:
        multipart/form-data: # necessary for photos
        schema:
          properties:
            _token: #csrf
              type: string
            description:
              type: string
            parent_post:
              type: integer
            is_visible:
              type: boolean
            group_id:
              type: integer
            image1: #pic1
              type: string
              format: binary
            image2: #pic2
              type: string
              format: binary
            image3: #pic3
              type: string
              format: binary
            image4: #pic4
              type: string
              format: binary #max 4 pictures
          required:
            - _token
            - description
            - is_visible
    responses:
      "302":
        description: "Redirect after creating post."
        headers:
          Location:
            schema:
              type: string
        examples:
```

```
302Success:
  description: "Post creation successful. Redirect to post page."
  value: "/{post_id}"
302Error:
  description: "Error creating post. Redirect to timeline."
  value: "/feed"
```

/post/{post_id}:

```
get:
  security:
    - cookieuser: []
  operationId: R305
  summary: "R305: View Post"
  description: "Show the post with path id. Access: Authenticated-USR, ADM"
  tags:
    - "M03"
  parameters:
    - in: path
      name: post_id
      schema:
        type: integer
      required: true
  responses:
    "200":
      description: "Ok. Show post"
```

/post/{post_id}/edit:

```
post:
  operationId: R306
  security:
    - cookieuser: []
  summary: "R306: Edit Post"
  description: "Edit post. Access: Authenticated-USR, ADM"
  tags:
    - "M03"
  requestBody:
    required: true
    content:
      multipart/form-data: # necessary for photos
      schema:
        properties:
          _token: #csrf
            type: string
          description:
            type: string
          is_visible:
            type: boolean
          image1: #pic1
            type: string
            format: binary
          image2: #pic2
            type: string
            format: binary
          image3: #pic3
            type: string
            format: binary
          image4: #pic4
            type: string
            format: binary #max 4 pictures
        required:
          - _token
```

```
responses:
  "302":
    description: "Redirect after editing post."
    headers:
      Location:
        schema:
          type: string
    examples:
      302Success:
        description: "Post edit successful. Redirect to post page."
        value: "/{post_id}"
      302Error:
        description: "Error editing post. Redirect to timeline."
        value: "/feed"
```

/post/{post_id}/delete:

```
post:
  operationId: R307
  security:
```

```

- cookieuser: []
summary: "R307: Delete Post"
description: "Delete post. Access: Authenticated-USR, ADM"
tags:
- "M03"
requestBody:
  required: true
  content:
    application/x-www-form-urlencoded:
      schema:
        type: object
        properties:
          _token: #csrf
            type: string
        required:
          - _token

responses:
  "302":
    description: "Redirect after editing post."
    headers:
      Location:
        schema:
          type: string
        examples:
          302Success:
            description: "Post delete successful. Redirect to profile."
            value: "/{account_tag}"
          302Error:
            description: "Error deleting post. Redirect to post."
            value: "/{post_id}"

```

M4 Content Review

```

/post/{post_id}/react:
  post:
    operationId: R401
    security:
      - cookieuser: []
    summary: "R401: React Post"
    description: "React Post Action. Access: Authenticated-USR, ADM"
    tags:
      - "M04"
    requestBody:
      required: true
      content:
        application/x-www-form-urlencoded:
          schema:
            type: object
            properties:
              _token: #csrf
                type: string
              up_vote:
                type: boolean
              remove:
                type: boolean #to remove reaction
            required:
              - _token
              - up_vote

    responses:
      "302":
        description: "Redirect after editing post."
        headers:
          Location:
            schema:
              type: string
            examples:
              302Success:
                description: "Post delete successful. Redirect to profile."
                value: "/{account_tag}"
              302Error:
                description: "Error deleting post. Redirect to post."
                value: "/{post_id}"

```

```

/post/{post_id}/promotion:
  post:
    operationId: R402
    security:
      - cookieuser: []
    summary: "R402: Promote Post"
    description: "Promote Post Action. Access: Authenticated-USR, ADM"

```

```

tags:
  - "M04"
requestBody:
  required: true
  content:
    application/x-www-form-urlencoded:
      schema:
        type: object
        properties:
          _token: #csrf
            type: string
          remove:
            type: boolean #to remove promotion
        required:
          - _token

responses:
  "302":
    description: "Redirect after editing post."
    headers:
      Location:
        schema:
          type: string
    examples:
      302Success:
        description: "Post delete successful. Redirect to profile."
        value: "/{account_tag}"
      302Error:
        description: "Error deleting post. Redirect to post."
        value: "/{post_id}"

```

```

/post/{post_id}/report:
  post:
    operationId: R403
    security:
      - cookieuser: []
    summary: "R403: Report Post"
    description: "Report Post Action. Access: Authenticated-USR, ADM"
    tags:
      - "M04"
    requestBody:
      required: true
      content:
        application/x-www-form-urlencoded:
          schema:
            type: object
            properties:
              _token: #csrf
                type: string
              description:
                type: string
              reason:
                type: string
            required:
              - _token
              - reason

responses:
  "302":
    description: "Redirect after reporting post."
    headers:
      Location:
        schema:
          type: string
    examples:
      302Success:
        description: "Post report successful. Redirect to post."
        value: "/{post_id}"
      302Error:
        description: "Post report unsuccessful. Redirect to post."
        value: "/{post_id}"

```

```

/user/{account_tag}/report:
  post:
    operationId: R404
    security:
      - cookieuser: []
    summary: "R404: Report Account"
    description: "Report Account Action. Access: Authenticated-USR, ADM"
    tags:
      - "M04"

```

```

requestBody:
  required: true
  content:
    application/x-www-form-urlencoded:
      schema:
        type: object
        properties:
          _token: #csrf
            type: string
          description:
            type: string
          reason:
            type: string
        required:
          - _token
          - reason

responses:
  "302":
    description: "Redirect after reporting Account."
    headers:
      Location:
        schema:
          type: string
    examples:
      302Success:
        description: "Account report successful. Redirect to account."
        value: "/{account_tag}"
      302Error:
        description: "Account report unsuccessful. Redirect to account."
        value: "/{account_tag}"

/notifications:
get:
  security:
    - cookieuser: []
  operationId: R405
  summary: "R405: View Notifications"
  description: "Show user notifications. Access: Authenticated-USR, ADM"
  tags:
    - "M04"
  responses:
    "200":
      description: "Ok. Show notifications"

##### M5 User relationship #####
/api/friendship:
post:
  security:
    - cookieuser: []
  operationId: R501
  summary: "R501: Send Friend Request"
  description: "Send friend request action. Access: Authenticated-USR, ADM"
  tags:
    - "M05"
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            _token: #csrf
              type: string
          required:
            - _token
  responses:
    "302":
      description: "Redirect after processing the friends request."
      headers:
        Location:
          schema:
            type: string
      examples:
        302Success:
          description: "The friend request was successfully done."
          value: "/{account_tag}"
        302Error:
          description: "The friend request went wrong."
          value: "/{account_tag}"

delete:

```

```

security:
  - cookieuser: []
operationId: R502
summary: "R502: Remove Friend "
description: "Remove friend action. Access: Authenticated-USR, ADM"
tags:
  - "M05"
requestBody:
  required: true
  content:
    application/x-www-form-urlencoded:
      schema:
        type: object
        properties:
          _token: #csrf
            type: string
          id:
            type: integer
        required:
          - _token
responses:
  "302":
    description: "Redirect after processing the friendship removal."
    headers:
      Location:
        schema:
          type: string
    examples:
      302Success:
        description: "The friendship removal was successfully done."
        value: "/{account_tag}"
      302Error:
        description: "The friendship removal went wrong."
        value: "/{account_tag}"

/api/friendship/request:
put:
  security:
    - cookieuser: []
  operationId: R503
  summary: "R503: Accept/Decline Friend Request"
  description: "Accept/Decline Friend Request action. Access: Authenticated-USR, ADM"
  tags:
    - "M05"
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            _token: #csrf
              type: string
            id:
              type: integer
          required:
            - _token
            - id
  responses:
    "302":
      description: "Redirect after processing the acceptance/decline of a friend request."
      headers:
        Location:
          schema:
            type: string
      examples:
        302Success:
          description: "The friend request acceptance was successfully done."
          value: "/{account_tag}"
        302Error:
          description: "The friend request acceptance went wrong."
          value: "/{account_tag}"

delete:
  security:
    - cookieuser: []
  operationId: R503
  summary: "R503: Accept/Decline Friend Request"
  description: "Decline Friend Request action. Access: Authenticated-USR, ADM"
  tags:
    - "M05"
  requestBody:

```

```

    required: true
  content:
    application/x-www-form-urlencoded:
      schema:
        type: object
        properties:
          _token: #csrf
            type: string
          id:
            type: integer
        required:
          - _token
          - id
  responses:
    "302":
      description: "Redirect after processing the acceptance/decline of a friend request."
      headers:
        Location:
          schema:
            type: string
          examples:
            302Success:
              description: "The friend request decline was successfully done."
              value: "/{account_tag}"
            302Error:
              description: "The friend request decline went wrong."
              value: "/{account_tag}"

/create_group:
  get:
    security:
      - cookieuser: []
    operationId: R504
    summary: "R504: Create group form"
    description: "Provide login form. Access: Authenticated-USR, ADM"
    tags:
      - "M05"
    responses:
      "200":
        description: "Ok. Show create-group UI"
  post:
    security:
      - cookieuser: []
    operationId: R505
    summary: "R505: Create group Action"
    description: "Create a new group. Access: Authenticated-USR, ADM"
    tags:
      - "M05"
    requestBody:
      required: true
      content:
        application/x-www-form-urlencoded:
          schema:
            type: object
            properties:
              name:
                type: string
              description:
                type: string
              is_public:
                type: boolean
              _token:
                type: string
            members:
              type: array
              items:
                type: object
                properties:
                  id:
                    type: integer
                  role:
                    type: string
                    pattern: ^(admin)|(pending)?
            required:
              - name
              - is_public
              - _token
              - members
    responses:
      "302":
        description: "Redirect after processing the group creation."

```

```
headers:
  Location:
    schema:
      type: string
    examples:
      302Success:
        description: "Successful group creation. Redirect to group_page."
        value: "/group/{group_id}"
      302Error:
        description: "Failed group creation. Redirect to user profile."
        value: "/{account_tag}"
  Set-cookie:
    schema:
      type: string
      description: sessionID
      example: SESSIONID=abcde12345; Secure; Path=/; HttpOnly; SameSite=Strict
```

```
/group/{group_id}:
get:
  security:
    - cookieuser: []
  operationId: R506
  summary: "R506: View Group Feed (and members)"
  description: "Show the group feed. Access: Authenticated-USR, ADM"
  tags:
    - "M05"
  responses:
    "200":
      description: "Ok. Show group feed"
```

```
/api/group/invite:
post:
  security:
    - cookieuser: []
  operationId: R507
  summary: "R507: Send Group Member Request"
  description: "Send group member request action. Access: Authenticated-USR, ADM"
  tags:
    - "M05"
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            _token: #csrf
              type: string
            group:
              type: integer
            invitee:
              type: integer
          required:
            - _token
            - member_id
  responses:
    "302":
      description: "Redirect after processing the group member request."
      headers:
        Location:
          schema:
            type: string
          examples:
            302Success:
              description: "The group member request was successfully sent."
              value: "/group/{group_id}"
            302Error:
              description: "The group member request went wrong."
              value: "/group/{group_id}"
```

```
put:
  security:
    - cookieuser: []
  operationId: R509
  summary: "R509: Accept/Decline group member request"
  description: "Accept group member request action. Access: Authenticated-USR, ADM"
  tags:
    - "M05"
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
```



```

    schema:
      type: object
      properties:
        _token: #csrf
          type: string
        group_id:
          type: integer
      required:
        - _token
        - group_id
  responses:
    "302":
      description: "Redirect after processing the acceptance/decline of a group member request."
      headers:
        Location:
          schema:
            type: string
      examples:
        302Success:
          description: "The group member request acceptance was successfully done."
          value: "/group/{group_id}"
        302Error:
          description: "The group member request acceptance went wrong."
          value: "/group/{group_id}"
delete:
  security:
    - cookieuser: []
  operationId: R509
  summary: "R509: Accept/Decline group member request"
  description: "Decline group member request action. Access: Authenticated-USR, ADM"
  tags:
    - "M05"
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            _token: #csrf
              type: string
            group_id:
              type: integer
          required:
            - _token
            - group_id
  responses:
    "302":
      description: "Redirect after processing the acceptance/decline of a group member request."
      headers:
        Location:
          schema:
            type: string
      examples:
        302Success:
          description: "The group member request decline was successfully done."
          value: "/group/{group_id}"
        302Error:
          description: "The group member request decline went wrong."
          value: "/group/{group_id}"

/api/group:
delete:
  security:
    - cookieuser: []
  operationId: R508
  summary: "R508: Remove Member "
  description: "Remove member action. Access: Authenticated-USR, ADM"
  tags:
    - "M05"
  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            _token: #csrf
              type: string
            userid:
              type: integer

```

```

        groupid:
          type: integer
      required:
        - _token
        - userid
        - groupid
    responses:
      "302":
        description: "Redirect after processing the friendship removal."
        headers:
          Location:
            schema:
              type: string
        examples:
          302Success:
            description: "The member removal was successfully done."
            value: "/group/{group_id}"
          302Error:
            description: "The member removal went wrong."
            value: "/group/{group_id}"

/group/edit:
  post:
    security:
      - cookieuser: []
    operationId: R510
    summary: "R510: Edit group "
    description: "Edit group action. Access: Authenticated-USR, ADM"
    tags:
      - "M05"
    requestBody:
      required: true
      content:
        application/x-www-form-urlencoded:
          schema:
            type: object
            properties:
              groupname:
                type: string
              groupdescription:
                type: string
              is_public:
                type: boolean
              groupdesc:
                type: string
              _token:
                type: string
            required:
              - _token
              - groupname
              - groupdescription
    responses:
      "302":
        description: "Redirect after processing the group editing."
        headers:
          Location:
            schema:
              type: string
        examples:
          302Success:
            description: "The group editing was successfully done."
            value: "/group/{group_id}"
          302Error:
            description: "The group editing went wrong."
            value: "/group/{group_id}"

/group/{group_id}/change_permissions:
  post:
    security:
      - cookieuser: []
    operationId: R511
    summary: "R511: Change Member Permissions"
    description: "Change Member Permissions action. Access: Group-Administrator, ADM"
    tags:
      - "M05"
    requestBody:
      required: true
      content:
        application/x-www-form-urlencoded:
          schema:
            type: object

```

```

        properties:
          _token: #csrf
            type: string
          member_id:
            type: integer
          admin:
            type: boolean
        required:
          - _token
          - member_id
          - admin
      responses:
        "302":
          description: "Redirect after processing the member permissions changing."
          headers:
            Location:
              schema:
                type: string
          examples:
            302Success:
              description: "The member permissions changing was successfully done."
              value: "/group/{group_id}"
            302Error:
              description: "The member permissions changing went wrong."
              value: "/group/{group_id}"

##### M6 Content #####
/home:
  get:
    operationId: R601
    summary: "R601: Home page"
    description: "Provide page with brief presentation of main features, About us section, Contacts section, Ask for help section. Access: PUB"
    tags:
      - "M06"
    responses:
      "200":
        description: "Ok. Show new post UI"

/ads:
  get:
    operationId: R602
    summary: "R602: Ads"
    description: "Provide list of ads (related to specific university)"
    tags:
      - "M06"
    parameters:
      - in: query
        name: university_name
        schema:
          type: string
        required: false
    responses:
      "200":
        description: "Ok. Show ads"

```

9. Implementation Details

9.1. Libraries Used

TailwindCSS (<https://tailwindcss.com/>) is used for styling the web pages, for example in the following code, found in the file linkRequest.blade.php:

```

<div
  data-id="{{ $id }}"
  class="flex flex-col justify-between items-center w-full gap-y-2 p-2 my-1 cursor-pointer rounded-md bg-slate-200"
>
  <p>{{ $name }} sent you a link request</p>
  <div class="flex flex-row justify-evenly w-full text-white mb-1">
    <div
      class="link-request-accept py-1 px-2 bg-blue-500 rounded-md flex-shrink-0"
    >
      Accept
    </div>
    <div
      class="link-request-refuse py-1 px-2 bg-red-500 rounded-md flex-shrink-0"
    >
      Refuse
    </div>
  </div>
</div>
</div>

```

Mailtrap was used for sending password recovery emails, for example in the following code, found in the file PasswordRecoveryController.php:

```
$mailData = [
    'account_tag' => $user->account_tag,
    'recovery_code' => $recoveryCode,
    'email' => $request['email'],
];

Mail::to($mailData['email'])->send(new PasswordRecovery($mailData));
```

9.2 User Stories

US Identifier	Name	Module	Priority	Team Members	State
US201	See Timeline	Module A	High	Diogo Costa	80%
US002	Sign-Up	Module A	High	André Ávila, Diogo Costa	100%
US001	Log-In	Module A	High	André Ávila, Diogo Costa	100%
US205	Log Out	Module A	High	André Ávila	100%
US202	Create a Post	Module A	High	André Ávila, Diogo Costa	100%
US207	View Private Profile	Module A	High	André Ávila, Diogo Costa	100%
US206	Edit Profile	Module A	High	André Ávila, Diogo Costa	100%
US228	Change Profile Visibility	Module B	Medium	André Ávila	100%
US102	View Profile	Module A	High	André Ávila, Diogo Costa	100%
US208	Send Friend Requests	Module B	Medium	André Ávila	100%
US209	Remove Friends	Module B	Medium	André Ávila	100%
US211	Decline Friend Requests	Module B	Medium	André Ávila	100%
US210	Accept Friend Requests	Module B	Medium	André Ávila	100%
US227	Receive Friend Request Notifications	Module B	Medium	André Ávila	100%
US222	Check Personal Notifications	Module B	Medium	André Ávila	100%
US401	Find User Account	Module A	High	Manuel Amorim	100%
US101	Search	Module A	High	Manuel Amorim	30%
US203	Edit a Post	Module A	High	Manuel Amorim	0%
US204	Delete a Post	Module A	High	Manuel Amorim	0%
US215	Create a Group	Module B	Medium	André Ávila	100%
US402	View User Account	Module A	High	Francisco Serra, Diogo Costa	100%
US403	Edit User Account	Module A	High	Francisco Serra, Diogo Costa	100%
US216	Invite to a Group	Module B	Medium	André Ávila	100%
US303	Add to Group	Module B	Medium	André Ávila	100%
US218	Create a Post on a Group	Module B	Medium	André Ávila	100%
US225	View Group's Members	Module B	Medium	André Ávila	100%
US301	Edit Group Information	Module B	Medium	André Ávila	100%
US306	Change Group Visibility	Module C	Low	André Ávila	100%

US Identifier	Name	Module	Priority	Assigned Members	Status
US219	Leave a Group	Module B	Medium	André Ávila	100%
US302	Remove Member	Module B	Medium	André Ávila	100%
US404	Create User Account	Module A	High	Francisco Serra	100%
US003	Recover Password	Module B	Medium	André Ávila	100%
US405	Block and Unblock User Accounts	Module B	Medium	Francisco Serra, Manuel Amorim	100%
US406	Delete User Account	Module B	Medium	Francisco Serra	100%
US104	See About Us	Module B	Medium	Diogo Costa	100%
US108	See Specific Post	Module C	Low	André Ávila	20%
US224	Add Profile Picture	Module B	Medium	Francisco Serra	0%
US230	View Friends Feed	Module C	Low	André Ávila	10%
US105	See Contacts	Module B	Medium	Diogo Costa	100%
US105	Mobile-responsive	Module B	Medium	Diogo Costa	100%
US103	See Main Features	Module B	Medium		
US106	Contextual Error Messages	Module B	Medium		
US107	Contextual Help	Module B	Medium		
US212	Comment on a Post	Module B	Medium		
US213	Edit a Comment on a Post	Module B	Medium		
US214	Delete a Comment on a Post	Module B	Medium		
US220	React to a Post	Module B	Medium		
US221	React to a Comment	Module B	Medium		
US223	Delete My Account	Module B	Medium		
US226	Receive Likes on a Post Notifications	Module B	Medium		
US229	Appeal for Unblock	Module C	Low		
US231	Tag Friend in a Post	Module C	Low		
US232	Manage a Post's Visibility	Module C	Low		
US233	Tag a Friend on a Comment	Module C	Low		
US234	Request to Join a Public Group	Module C	Low		
US235	Receive Suggestions	Module C	Low		
US237	See University Related Ads	Module C	Low		
US304	Manage Member Permissions	Module C	Low		
US305	Remove Post from Group	Module C	Low		
US307	Manage Join Requests	Module C	Low		
US308	Add Group Administrators	Module C	Low		

A10: Presentation

1. Product presentation

URL: <http://lbaw2222.lbaw.fe.up.pt>

Unilinks is a social network targeted to college students, with the aim to bring the community together. The website has several features to achieve this, with the main ones being:

- User links (friendships)
- Groups
- Posting
- Public and private profiles
- User biography and information
- Post search
- Notifications

The admins have tools available to moderate the community, such as blocking, editing, creating and deleting user profiles. There is also an admin panel where every user's information is available.

The product is available [here](#)

2. Video presentation

The video presentation is available [here](#).

Revision history

Changes made to the first submission:

1. ..

GROUP2122, 03/01/2023

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