

EAP: Architecture Specification and Prototype

Collaborative News is a web platform for news sharing where you can also interact with other users.

A7: Web Resources Specification

In this artefact the resources to be used in the Collaborative News web application are defined and described, listing their properties using OpenAPI(YAML). CRUD(create, read, update, delete) operations are presented for each resource.

1. Overview

In this section, an overview of the web application is presented using modules to separate resources.

Module	Description
M01: Authentication and Individual Profile	Web resources associated with user authentication and individual profile management. Includes the following system features: login/logout, registration, view and edit personal profile information, follow others and see notifications.
M02: News, comments and votes	Web resources associated with news items. Includes the following system features: create/edit/delete news, comments and votes, and view item details.
M03: Detailed search and topics	Web resources associated with searching methods and news topics. Includes the following system features: search for news using several filters, follow and propose topics.
M04: User Administration and Static pages	Web resources associated with user management, specifically: manage user accounts and topic proposals. Web resources with static content are associated with this module: about and help.

2. Permissions

In this section, the permissions associated with web resources are presented.

Identifier	Name	Description
PUB	Public	Users without privileges
USR	User	Authenticated users
OWN	Owner	Authenticated users with editing privileges over his posts
ADM	Administrator	System administrators

3. OpenAPI Specification

OpenAPI specification in YAML format to describe the web application's web resources.

[a7_openapi.yaml](#)

```
openapi: 3.0.0

info:
  version: '1.0'
  title: 'LBAW Collaborative News Web API'
  description: 'Web Resources Specification (A7) for Collaborative News'

servers:
- url: http://lbaw2103.lbaw.fe.up.pt/
  description: Production server
```

```
externalDocs:
  description: Find more info here.
  url: https://git.fe.up.pt/lbaw/lbaw2122/lbaw2103

tags:
  - name: 'M01: Authentication and Individual Profile'
  - name: 'M02: News, comments and votes'
  - name: 'M03: Detailed search and topics'
  - name: 'M04: User Administration and Static pages'

paths:
  /login:
    get:
      operationId: R101
      summary: 'R101: Login Form'
      description: 'Provide login form. Access: PUB'
      tags:
        - 'M01: Authentication and Individual Profile'
      responses:
        '200':
          description: 'Ok. Show UI15'

    post:
      operationId: R102
      summary: 'R102: Login Action'
      description: 'Processes the login form submission. Access: PUB'
      tags:
        - 'M01: Authentication and Individual Profile'

    requestBody:
      required: true
      content:
        application/x-www-form-urlencoded:
          schema:
            type: object
            properties:
              username:
                type: string
              password:
                type: string
            required:
              - username
              - password

      responses:
        '302':
          description: 'Redirect after processing the sign in credentials.'
          headers:
            Location:
              schema:
                type: string
          examples:
            302Success:
              description: 'Successful authentication. Redirect to Homepage.'
              value: '/news'
            302Error:
              description: 'Failed authentication. Redirect to login form.'
              value: '/login'

  /logout:
    post:
      operationId: R103
      summary: 'R103: Logout Action'
      description: 'Logout the current authenticated user. Access: USR, ADM'
      tags:
        - 'M01: Authentication and Individual Profile'

      responses:
        '302':
          description: 'Redirect after processing logout.'
          headers:
```

```
      Location:
        schema:
          type: string
        examples:
          302Success:
            description: 'Successful logout. Redirect to home page.'
            value: '/news'
          302Error:
            description: 'Failed to logout.'
            value: '/news'

/sign_up:
  get:
    operationId: R104
    summary: 'R104: Sign Up Form'
    description: 'Provide new user sign up form. Access: PUB'
    tags:
      - 'M01: Authentication and Individual Profile'

    responses:
      '200':
        description: 'Ok. Show UI16'

  post:
    operationId: R105
    summary: 'R105: Sign Up Action'
    description: 'Processes the new user sign up form submission. Access: PUB'
    tags:
      - 'M01: Authentication and Individual Profile'

    requestBody:
      required: true
      content:
        application/x-www-form-urlencoded:
          schema:
            type: object
            properties:
              username:
                type: string
              password:
                type: string
              email:
                type: string
              description:
                type: string
              image:
                type: string
                format: binary
            required:
              - username
              - password
              - email

    responses:
      '302':
        description: 'Redirect after processing the new user information.'
        headers:
          Location:
            schema:
              type: string
            examples:
              302Success:
                description: 'Successful authentication. Redirect to homepage.'
                value: '/news'
              302Failure:
                description: 'Failed authentication. Redirect to sign up page.'
                value: '/sign_up'

/users/{id_user}:
  get:
    operationId: R106
    summary: 'R106: View User Profile'
```

```
description: 'Show the individual user profile. Access: USR, ADM'
tags:
  - 'M01: Authentication and Individual Profile'

parameters:
  - in: path
    name: id_user
    schema:
      type: integer
    required: true

responses:
  '200':
    description: 'Ok. Show UI13'
  '404':
    description: 'Not Found.'
```

/users/{id_user}/edit:

get:

operationId: R107

summary: 'R107: Edit Profile Form'

description: 'Provide Edit Profile Form. Access: OWN, ADM'

tags:

- 'M01: Authentication and Individual Profile'

parameters:

- in: path

name: id_user

schema:

type: integer

required: true

responses:

'200':

description: 'Show form to edit profile'

post:

operationId: R108

summary: 'R108: Edit Profile Action'

description: 'Processes Edit Profile Form. Access: OWN, ADM'

tags:

- 'M01: Authentication and Individual Profile'

parameters:

- in: path

name: id_user

schema:

type: integer

required: true

requestBody:

required: true

content:

application/x-www-form-urlencoded:

schema:

type: object

properties:

username:

type: string

password:

type: string

description:

type: string

image:

type: string

format: binary

required:

- username

- password

responses:

'302':

description: 'Redirect after processing the profile edition form.'

```

    headers:
      Location:
        schema:
          type: string
        examples:
          302Success:
            description: 'The profile edition was successful. Redirect to user profile.'
            value: '/user/{id_user}'
          302Error:
            description: 'Failed to edit profile. Redirect to profile form edition.'
            value: '/user/{id_user}/edit'

/users/{id_user}/delete:
  delete:
    operationId: R109
    summary: 'R109: Delete Account'
    description: 'Delete account. Access: OWN, ADM'
    tags:
      - 'M01: Authentication and Individual Profile'

    parameters:
      - in: path
        name: id_user
        schema:
          type: integer
        required: true

    responses:
      '200':
        description: 'OK'
      '404':
        description: 'Not found'

/users/{id_user}/follow:
  put:
    operationId: R110
    summary: 'R110: Follow user'
    description: 'Follow a user. Access: USR'
    tags:
      - 'M01: Authentication and Individual Profile'

    parameters:
      - in: path
        name: id_user
        schema:
          type: integer
        required: true

    responses:
      '200':
        description: 'Ok.'
      '401':
        description: 'Unauthorized'

  delete:
    operationId: R111
    summary: 'R111: Unfollow user'
    description: 'Unfollow a user. Access: USR'
    tags:
      - 'M01: Authentication and Individual Profile'

    parameters:
      - in: path
        name: id_user
        schema:
          type: integer
        required: true

    responses:
      '200':
        description: 'Ok.'
      '401':

```

```
description: 'Unauthorized'

/users/{id_user}/notifications:
  get:
    operationId: R112
    summary: 'R112: View User Notifications'
    description: 'Show the notifications of an individual user. Access: USR, ADM'
    tags:
      - 'M01: Authentication and Individual Profile'

    parameters:
      - in: path
        name: id_user
        schema:
          type: integer
        required: true

    responses:
      '200':
        description: 'Ok. Show UI13, user notifications'
        content:
          application/json:
            schema:
              type: array
              items:
                type: object
                properties:
                  id:
                    type: integer
                  content:
                    type: string
                  date:
                    type: date
      '403':
        description: 'Forbidden'
      '404':
        description: 'Not Found'

  delete:
    operationId: R113
    summary: 'R113: Delete Notification'
    description: 'Delete notification. Access: ADM'
    tags:
      - 'M01: Authentication and Individual Profile'

    parameters:
      - in: path
        name: id_user
        schema:
          type: integer
        required: true

    responses:
      '200':
        description: 'Notification deleted'
      '403':
        description: 'Forbidden'
      '404':
        description: 'Not Found'

/news:
  get:
    operationId: R201
    summary: 'R201: Initial page news'
    description: 'Processes the user preferences and return an initial page. Not authenticated receive default page. Acces'
    tags:
      - 'M02: News, comments and votes'

    responses:
      '200':
        description: 'Ok. Show UI01.'
```

```
    application/json:
      schema:
        type: array
        items:
          type: object
          properties:
            title:
              type: string
            content:
              type: string
            image:
              type: string
              format: binary
            date:
              type: date
            topic:
              type: string

/news/create:
  get:
    operationId: R202
    summary: 'R202: Create News Form'
    description: 'Provide the news form to a user. Access: USR'
    tags:
      - 'M02: News, comments and votes'

    responses:
      '200':
        description: 'Show form to write a news.'

  post:
    operationId: R203
    summary: 'R203: Create News Action'
    description: 'Processes the news form submission. Access: USR'

    tags:
      - 'M02: News, comments and votes'

    requestBody:
      required: true
      content:
        application/x-www-form-urlencoded:
          schema:
            type: object
            properties:
              title:
                type: string
              content:
                type: string
              topic:
                type: array
                items:
                  type: string
              image:
                type: string
                format: binary
            required:
              - title
              - content
              - topic

    responses:
      '302':
        description: 'Redirect after processing the news form.'
        headers:
          Location:
            schema:
              type: string
        examples:
          302Success:
            description: 'The news was created successfully. Redirect to initial page.'
            value: '/news'
```

```
302Error:
  description: 'Failed to create a news. Redirect to news form.'
  value: '/news/create'

/news/{id_news}:
  get:
    operationId: R204
    summary: 'R204: News Details'
    description: 'News Details Page. Access: PUB, USR'
    tags:
      - 'M02: News, comments and votes'

    parameters:
      - in: path
        name: id_news
        schema:
          type: integer
        required: true

    responses:
      '200':
        description: 'Ok. Show UI10.'
        content:
          application/json:
            schema:
              type: object
              properties:
                title:
                  type: string
                content:
                  type: string
                topic:
                  type: array
                  items:
                    type: string
                image:
                  type: string
                  format: binary
                date:
                  type: date
                reputation:
                  type: integer
                writer:
                  type: string

  delete:
    operationId: R205
    summary: 'R205: Delete news'
    description: 'Delete a news. Access: OWN, ADM'
    tags:
      - 'M02: News, comments and votes'

    parameters:
      - in: path
        name: id_news
        schema:
          type: integer
        required: true

    responses:
      '302':
        description: 'Redirect after processing the news form.'
        headers:
          Location:
            schema:
              type: string
        examples:
          302Success:
            description: 'The news was deleted successfully. Redirect to homepage.'
            value: '/news'
          302Error:
            description: 'Failed to delete the news. Redirect to the news page.'
```



```
        value: '/news/{id_news}'

/news/{id_news}/edit:
  get:
    operationId: R206
    summary: 'R206: Edit News Form'
    description: 'Provide the news form to a user for edition. Access: OWN, ADM'
    tags:
      - 'M02: News, comments and votes'

    parameters:
      - in: path
        name: id_news
        schema:
          type: integer
        required: true

    responses:
      '200':
        description: 'Show form to edit a news.'

  post:
    operationId: R207
    summary: 'R207: Edit News Action'
    description: 'Processes the news form edition submission. Access: OWN, ADM'
    tags:
      - 'M02: News, comments and votes'

    parameters:
      - in: path
        name: id_news
        schema:
          type: integer
        required: true

    requestBody:
      required: true
      content:
        application/x-www-form-urlencoded:
          schema:
            type: object
            properties:
              title:
                type: string
              content:
                type: string
              topic:
                type: array
                items:
                  type: string
              image:
                type: string
                format: binary
            required:
              - title
              - content
              - topic

    responses:
      '302':
        description: 'Redirect after processing the news form edition.'
        headers:
          Location:
            schema:
              type: string
        examples:
          302Success:
            description: 'The news edition was successful. Redirect to initial page.'
            value: '/news/{id_news}'
          302Error:
            description: 'Failed to edit the news. Redirect to news form edition.'
            value: '/news/{id_news}/edit'
```

```
/news/{id_news}/create_comment:
  get:
    operationId: R208
    summary: 'R208: Comment Form'
    description: 'Provide the comment form to a user. Access: USR'
    tags:
      - 'M02: News, comments and votes'

    parameters:
      - in: path
        name: id_news
        schema:
          type: integer
        required: true

    responses:
      '200':
        description: 'Show form to write a comment.'

  post:
    operationId: R209
    summary: 'R209: Comment Action'
    description: 'Processes the comment form submission. Access: USR'
    tags:
      - 'M02: News, comments and votes'

    parameters:
      - in: path
        name: id_news
        schema:
          type: integer
        required: true

    requestBody:
      required: true
      content:
        application/x-www-form-urlencoded:
          schema:
            type: object
            properties:
              content:
                type: string

    responses:
      '302':
        description: 'Redirect after processing the comment form.'
        headers:
          Location:
            schema:
              type: string
            examples:
              302Success:
                description: 'The comment was created successfully. Redirect to the news page.'
                value: '/news/{news_id}'
              302Error:
                description: 'Failed to create the comment. Redirect to the news page.'
                value: '/news/{news_id}'

/news/{id_news}/edit_comment:
  get:
    operationId: R210
    summary: 'R210: Edit Comment Form'
    description: 'Provide the comment form to a user for edition. Access: OWN, ADM'
    tags:
      - 'M02: News, comments and votes'

    parameters:
      - in: path
        name: id_news
        schema:
          type: integer
        required: true
```

```
responses:
  '200':
    description: 'Show form to edit a comment.'
```

post:

```
  operationId: R211
  summary: 'R211: Edit Comment Action'
  description: 'Processes the comment form edition submission. Access: OWN, ADM'
  tags:
    - 'M02: News, comments and votes'

  parameters:
    - in: path
      name: id_news
      schema:
        type: integer
      required: true

  requestBody:
    required: true
    content:
      application/x-www-form-urlencoded:
        schema:
          type: object
          properties:
            content:
              type: string

  responses:
    '302':
      description: 'Redirect after processing the comment form edition.'
```

headers:

```
  Location:
    schema:
      type: string
  examples:
    302Success:
      description: 'The comment edition was successful. Redirect to the news page.'
      value: '/news/{news_id}'
    302Error:
      description: 'Failed to edit the comment. Redirect to the news page.'
      value: '/news/{news_id}'

/news/{id_news}/delete_comment:
delete:
  operationId: R212
  summary: 'R212: Delete comment'
  description: 'Delete a comment. Access: OWN, ADM'
  tags:
    - 'M02: News, comments and votes'

  parameters:
    - in: path
      name: id_news
      schema:
        type: integer
      required: true

  responses:
    '302':
      description: 'Redirect after processing the comment form.'
```

headers:

```
  Location:
    schema:
      type: string
  examples:
    302Success:
      description: 'The comment was deleted successfully. Redirect to the news page.'
      value: '/news/{news_id}'
    302Error:
```

```
description: 'Failed to delete the comment. Redirect to the news page.'  
value: '/news/{news_id}'
```

```
/news/{id_news}/vote_on_news:
```

```
put:  
  operationId: R213  
  summary: 'R213: Vote on news'  
  description: 'Vote on news. Access: USR'  
  tags:  
    - 'M02: News, comments and votes'  
  
  parameters:  
    - in: path  
      name: id_news  
      schema:  
        type: integer  
      required: true  
  
  responses:  
    '200':  
      description: 'The vote was added successfully.'  
    '401':  
      description: 'Unauthorized'
```

```
delete:  
  operationId: R214  
  summary: 'R214: Remove vote on news'  
  description: 'Remove vote on news. Access: OWN'  
  tags:  
    - 'M02: News, comments and votes'  
  
  parameters:  
    - in: path  
      name: id_news  
      schema:  
        type: integer  
      required: true  
  
  responses:  
    '200':  
      description: 'The vote was removed successfully.'  
    '401':  
      description: 'Unauthorized'
```

```
/news/{id_news}/vote_on_comment/{id_comment}:
```

```
put:  
  operationId: R215  
  summary: 'R215: Vote on comment'  
  description: 'Vote on comment. Access: USR'  
  tags:  
    - 'M02: News, comments and votes'  
  
  parameters:  
    - in: path  
      name: id_news  
      schema:  
        type: integer  
      required: true  
    - in: path  
      name: id_comment  
      schema:  
        type: integer  
      required: true  
  
  responses:  
    '200':  
      description: 'The vote was added successfully.'  
    '401':  
      description: 'Unauthorized'
```

```
delete:  
  operationId: R216  
  summary: 'R216: Remove vote on comment'
```

```
description: 'Remove vote on comment. Access: OWN'
tags:
  - 'M02: News, comments and votes'

parameters:
  - in: path
    name: id_news
    schema:
      type: integer
    required: true
  - in: path
    name: id_comment
    schema:
      type: integer
    required: true

responses:
  '200':
    description: 'The vote was removed successfully.'
  '401':
    description: 'Unauthorized'

/news/search_exact:
  get:
    operationId: R301
    summary: 'R301: Exact Match Search'
    description: 'Search for specific news posts using text. Access: USR'
    tags:
      - 'M03: Detailed search and topics'

    parameters:
      - in: query
        name: string
        description: 'String to use for exact match search'
        schema:
          type: string
        required: true

    responses:
      '200':
        description: 'Ok. Show UI11'
        content:
          application/json:
            schema:
              type: array
              items:
                type: object
                properties:
                  title:
                    type: string
                  content:
                    type: string
                  image:
                    type: string
                    format: binary
                  date:
                    type: date
                  writer:
                    type: string
                  topic:
                    type: array
                    items:
                      type: string

      '400':
        description: Bad Request

/news/search:
  get:
    operationId: R302
    summary: 'R302: Full-text Search'
    description: 'Search for news posts using text. Access: USR'
```

```
tags:
  - 'M03: Detailed search and topics'

parameters:
  - in: query
    name: string
    description: String to use for full-text search
    schema:
      type: string
    required: true

responses:
  '200':
    description: 'Ok. Show UI11'
    content:
      application/json:
        schema:
          type: array
          items:
            type: object
            properties:
              title:
                type: string
              content:
                type: string
              image:
                type: string
              date:
                type: date
              writer:
                type: string
              topic:
                type: array
                items:
                  type: string
  '400':
    description: Bad Request

/news/topic/{id_topic}:
get:
  operationId: R303
  summary: 'R303: Search by topic'
  description: 'Search for news with a certain topic. Access: USR'
  tags:
    - 'M03: Detailed search and topics'

parameters:
  - in: query
    name: id_topic
    schema:
      type: integer
    required: true

responses:
  '200':
    description: 'Ok. Show UI11'
    content:
      application/json:
        schema:
          type: array
          items:
            type: object
            properties:
              title:
                type: string
              content:
                type: string
              image:
                type: string
              date:
                type: date
              writer:
```

```
        type: string
      topic:
        type: array
        items:
          type: string

/news/topic/{id_topic}/follow:
  put:
    operationId: R304
    summary: 'R304: Follow topic'
    description: 'Follow a topic. Access: USR'
    tags:
      - 'M03: Detailed search and topics'

    parameters:
      - in: path
        name: id_topic
        schema:
          type: integer
        required: true

    responses:
      '200':
        description: 'Ok.'
      '401':
        description: 'Unauthorized'

  delete:
    operationId: R305
    summary: 'R305: Unfollow topic'
    description: 'Unfollow a topic. Access: USR'
    tags:
      - 'M03: Detailed search and topics'

    parameters:
      - in: query
        name: id
        description: Identifier of the topic
        schema:
          type: integer
        required: true

    responses:
      '200':
        description: 'Ok.'
      '401':
        description: 'Unauthorized'

/news/topic/propose_topic:
  get:
    operationId: R306
    summary: 'R306: New Topic Form'
    description: 'Provide the topic proposal form to a user. Access: USR'
    tags:
      - 'M03: Detailed search and topics'
    responses:
      '200':
        description: 'Ok.'
  post:
    operationId: R307
    summary: 'R307: Process topic form'
    description: 'Processes the topic proposal form submission. Access: USR'
    tags:
      - 'M03: Detailed search and topics'

    requestBody:
      required: true
      content:
        application/x-www-form-urlencoded:
          schema:
            type: object
            properties:
```

```
      topic:
        type: string
      required:
        - topic

responses:
  '302':
    description: 'Redirect after processing the topic proposal form.'
    headers:
      Location:
        schema:
          type: string
    examples:
      302Success:
        description: 'Success on proposing the topic. Redirect to topic page.'
        value: '/news/topic'
      302Error:
        description: 'Failed to propose topic. Redirect to topic page.'
        value: '/news/topic'

/about:
  get:
    operationId: R401
    summary: 'R401: View About Page'
    description: "Show About page. Access: PUB"
    tags:
      - 'M04: User Administration and Static pages'

    responses:
      '200':
        description: 'Ok. Show UI02'

/help:
  get:
    operationId: R402
    summary: 'R402: View Help Page'
    description: "Show Help page. Access: PUB"
    tags:
      - 'M04: User Administration and Static pages'

    responses:
      '200':
        description: 'Ok. Show UI03'

/admin/users:
  get:
    operationId: R403
    summary: 'R403: View Users Management Page'
    description: "View Users Management Page. Access: ADM"
    tags:
      - 'M04: User Administration and Static pages'

    responses:
      '200':
        description: 'Ok. Show UI17'
        content:
          application/json:
            schema:
              type: array
              items:
                type: object
                properties:
                  id:
                    type: integer
                  username:
                    type: string
                  email:
                    type: string
                  reputation:
                    type: integer
      '403':
        description: 'Forbidden'
```



```
/admin/users/create:
  get:
    operationId: R404
    summary: 'R404: User Creation Form'
    description: "User Creation Form. Access: ADM"
    tags:
      - 'M04: User Administration and Static pages'

    responses:
      '200':
        description: 'Ok. Show UI17, form to create a user.'

  post:
    operationId: R405
    summary: 'R405: User Creation Action'
    description: "Process User Creation Form. Access: ADM"
    tags:
      - 'M04: User Administration and Static pages'

    requestBody:
      required: true
      content:
        application/x-www-form-urlencoded:
          schema:
            type: object
            properties:
              username:
                type: string
              password:
                type: string
              email:
                type: string
              description:
                type: string
              image:
                type: string
                format: binary
              is_admin:
                type: integer

            required:
              - username
              - password
              - email
              - is_admin

    responses:
      '302':
        description: 'Redirect after processing the user creation form.'
        headers:
          Location:
            schema:
              type: string
        examples:
          302Success:
            description: 'User was created successfully. Redirect to admin page.'
            value: '/admin/users'
          302Error:
            description: 'Failed to create user. Redirect to user creation form .'
            value: '/admin/users/create'

/admin/users/search:
  get:
    operationId: R406
    summary: 'R406: User Search'
    description: 'Search for users. Access: ADM'
    tags:
      - 'M04: User Administration and Static pages'

    parameters:
```

```
- in: query
  name: string
  description: 'String to use for user search'
  schema:
    type: string
  required: true

responses:
  '200':
    description: 'Ok. Show UI17'
    content:
      application/json:
        schema:
          type: array
          items:
            type: object
            properties:
              id:
                type: integer
              username:
                type: string
              email:
                type: string
              reputation:
                type: integer
  '400':
    description: Bad Request

/admin/topic_suggestions:
  put:
    operationId: R407
    summary: 'R407: Approve Topic Proposal'
    description: 'Accept topic suggested by a user. Access: ADM'
    tags:
      - 'M04: User Administration and Static pages'

    responses:
      '200':
        description: 'Topic added successfully.'
      '401':
        description: 'Unauthorized'

  delete:
    operationId: R408
    summary: 'R408: Decline Topic Proposal'
    description: 'Decline topic suggested by a user. Access: ADM'
    tags:
      - 'M04: User Administration and Static pages'

    responses:
      '200':
        description: 'Topic removed successfully.'
      '401':
        description: 'Unauthorized'
```

A8: Vertical prototype

In this artefact we include the implementation of the features that were considered necessary, aiming to endorse the presented composition and to get familiar with the technologies used.

1. Implemented Features

1.1. Implemented User Stories

The user stories implemented in the prototype are identified in this section.

User Story reference	Name	Priority	Description
----------------------	------	----------	-------------

User Story reference	Name	Priority	Description
US01	Sign-up	High	As a Visitor, I want to sign-up so I can become a Member
US02	Sign-in	High	As a Visitor, I want to sign-in to access my Member features
US06	View news item	High	As a User, I want to view specific news item, so that I can access more information
US09	Search for news items and comments	High	As a User, I want to search for specific posts, so that I can access what I’m looking for
US12	Exact match search	Low	As a User, I want to search for specific posts, so that I can access what I’m looking for faster
US14	Edit profile	High	As a Member, I want to edit my profile, so that I can present myself to other Members
US15	View own profile	High	As a Member, I want to view my own profile, so that I can get to know how it looks like and see my reputation
US16	View others users' profiles	High	As a Member, I want to view others Member's profiles, so that I can see their information and reputation
US19	Create news item	High	As a Member, I want to create a news item, so that I can share it with other people
US28	Edit news item	High	As a Writer, I want to edit my own news item, so that I keep them updated
US29	Delete news item	High	As a Writer, I want delete my own news items, so that I’m not sharing wrong information
US33	Delete user accounts	High	As an Admin, I want to remove a user from the system, so that he can no longer access restricted content
US35	Block user accounts	Medium	As an Admin, I want to block a user with low reputation, so that he can no longer access restricted content for a specific period of time
US36	Unblock user accounts	Medium	As an Admin, I want to unblock a user, so that he can now access restricted content again
US38	View Top News Feed	High	As a User, I want to view top news feed, so that I can see the trending and recent news on the feed
US39	View User News Feed	High	As a Member, I want to view my news feed, so that I can see the news suggest to me on the feed
US40	Administer User Accounts	Medium	As an Admin, I want to administer user accounts, so that I can search, view, edit, create and delete user accounts

1.2. Implemented Web Resources

The web resources implemented in the prototype are identified in this section.

Module M01: Authentication and Individual Profile

Web Resource Reference	URL
R101: Login Form	GET /login
R102: Login Action	POST /login
R103: Logout Action	POST /logout
R104: Sign-up Form	GET /sign_up
R105: Sign-up Action	POST /sign_up
R106: View User Profile	GET /users/{id_user}
R107: Edit Profile Form	GET /users/{id_user}/edit

Web Resource Reference	URL
R108: Edit Profile Action	POST /users/{id_user}/edit

Module M02: News, comments and votes

Web Resource Reference	URL
R201: Initial Page News	GET /news
R202: Create News Form	GET /news/create
R203: Create News Action	POST /news/create
R204: News Details	GET /news/{id_news}
R205: Delete News	DELETE /news/{id_news}
R206: Edit News Form	GET /news/{id_news}/edit
R207: Edit News Action	POST /news/{id_news}/edit

Module M03: Detailed search and topics

Web Resource Reference	URL
R301: Exact Match Search	GET /news/search_exact
R302: Full-text Search	GET /news/search

Module M04: User Administration and Static pages

Web Resource Reference	URL
R403: View Users Management Page	GET /admin/users
R404: User Creation Form	GET /admin/users/create
R405: User Creation Action	POST /admin/users/create

2. Prototype

The prototype is available at <http://lbaw2103.lbaw.fe.up.pt/>

Credentials:

- admin user: admin@fe.up.pt/admin123
- regular user: collab@fe.up.pt/collab123

The code is available at <https://git.fe.up.pt/lbaw/lbaw2122/lbaw2103>

Revision history

Changes made to ER and EBD are documented in the respective documents.

GROUP2103, 03/01/2022

- Diogo Pinto, up201906067@up.pt
- Guilherme Garrido, up201905407@up.pt
- Luís Lucas, up201904624@up.pt
- Pedro Pinheiro, up201906788@up.pt (Editor)