A7: High-level architecture. Privileges. Web resources specification

This document catalogues the resources used by SegFault, and identifies their properties. These include references to the graphical interfaces, and the format of JSON responses. Furthermore, this artifact presents a documentation for the web application, including all operations over data: create, read, update, and delete.

1. Overview

This section presents an overview of the web application to implement, identifies the application's modules and briefly describes them. The web resources associated with each module are detailed in the individual documentation of each module.

M01:	Web resources associated with user authentication, includes the
Au-	following system features: login/logout and registration.
thenti-	
cation	
M02:	Web resources associated with individual profile management,
Indi-	includes the following system features: view and edit personal
vidual	profile information, view personal notifications and favorite
Profile	questions.
M03:	Web resources associated with questions, answers and their
\mathbf{Mes} -	comments, includes the following system features: add, view, vote,
sages	report and delete questions, add, view, vote, report and delete
	answers and add, view, vote, report and delete comments.
M04:	Web resources associated with categories, includes the following
Cate-	system features: list categories and search categories
\mathbf{gories}	
M05:	Web resources with static content are associated with this module:
Static	about.
Pages	

2. Permissions

This section defines the permissions used in the modules to establish the conditions of access to resources, in increasing order of restrictiveness.

PUB	Public	Group of users without privileges.
USR	User	Group of authenticated users.

OWN Owner Group of users that can update their profiles and have privileges regarding their messages.

MOD ModeratorGroup of Moderators that can manage any message.

3. Modules

This section documents each web resource of each module, indicating the URL, HTTP methods, the possible parameters, interfaces with the user (referring to the A3 artefact) — or JSON responses in the event of APIs.

Web resources organized by module Document and describe the web resources associated with each module, indicating the URL, HTTP method, request parameters and response. Follow the RESTful resource naming At the end of this page is presented some usual descriptors to document the web resources.

3.1 Module M01: Authentication

Endpoints of module Authentication

These are the endpoints available in the Authentication module. * R101: Login Form /login * R102: Login Action /login * ...

R101: Login Form

URL	/login
Method	GET
UI	All pages allow for login, from the <i>navbar</i> . (UI01-UI08)
Submit	R102
Permissions	PUB

R102: Login Action

// TODO Timon // vê o exemplo do media library, é muito parecido. ...

3.2 Module M02: Individual Profile

Endpoints of module Individual Profile

These are the endpoints available in the Individual Profile module. * . . . // TODO Timon

3.3 Module M03: Messages

Endpoints of module Messages

- R301: Search Questions Page /questions
- R302: Get recent questions /questions/recent
- R303: Get hot questions/questions/hot
- R304: Get highly voted questions /questions/highly-voted
- R305: Get active questions /questions/active
- R306: View Question Overview /questions/{id}
- R307: Add a new question Form /questions/create
- R308: Add a new question Action /questions
- R309: Edit a question Form /questions/{id}/edit
- R310: Edit a question Action /questions/{id}
- R311: Delete a question Action /questions/{id}
- R312: Add a new answer Form /questions/{id}/answers/create
- R313: Add a new answer Action /questions/{id}/answers
- R314: Edit an answer Form /questions/{id}/answers/{id}/edit
- R315: Edit an answer Action /questions/{id}/answers/{id}
- R316: Delete an answer Action /questions/{id}/answers/{id}

// TODO add/edit/delete comments of questions and answers;

R301: Search Questions Page

URL	/questions
Description	Navbar on the homepage
	allows searching for a
	question by it's title.
Method	$ m \widetilde{GET}$
Parameters	+query: string (String field
	to search for in questions).
	?categories: string[]
	(Optionally, filter questions
	by categories).
UI	UI01
Response Body	JSON01
Permissions	PUB

R302: Get recent questions

URL	/questions/recent
Description	Show the 25 most recent questions.
Method	GET
UI	UI01

R303: Get hot questions

```
// Am working on it - Andre ...
3.4 Module M04: Categories
Endpoints of module Categories
3.5 Module M05: Static Pages
Endpoints of module Static Pages
// TODO Timon
4. JSON/XML Types
JSON01: Questions {question}[]
JSON response contains a list of questions and their contents.
  "question": [
      "id": 137
      "title": "Is there multiple inheritance in JAVA?",
      "content": "I'm a C++ developer and have always been intrigued by the
        fact that some languages allow for multiple inheritance and others
        don't.\nIs there a deeper thought process behind this?",
      "author": "sudomakemeasandwich",
    },
    {
    }
  ]
}
     Document the JSON or XML responses that will be used by the web
     resources.
```

Web resources descriptors - Do not include on the final artefact

- URL Resource identifier, following the RESTful resource naming conventions
- Description Describe the resource, when it's used and why
- UI Reference to the A3 user interface used by the resource
- SUBMIT Reference to the actions/requests integrated with the resource
- Method HTTP request Method
- Parameters Information that is sent through the URL, by a query string or path
- Request Body Data associated and transmitted with each request
- Returns HTTP code returned from a request
- Response Body Data sent from the server, in response to a given request
- Permissions Required permissions to access the resource

Revision history

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André Cruz, up201503776@fe.up.pt Daniel Marques, up201503822@fe.up.pt Edgar Carneiro, up201503784@fe.up.pt João Carvalho, up201504875@fe.up.pt