

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

Overview

An overview of the web application to implement is presented in this section, where the modules are identified and briefly described. The web resources associated with each module are detailed in the individual documentation of each module.

M01	Authentication	Web resources associated with user authentication, includes the following system features: login/logout, registration.
M02	Registered Users	Web resources associated with profile management, complexes and spaces listing, rental management and complex adding, includes the following system features: manage profile, search complexes/spaces, space renting, rent management, add complexes.
M03	Complex Management	Web resources associated with complexes management, spaces management, equipment management, sports complex rentals management, statistics and issue tracking, includes the following system features: add space, edit space, add equipment, edit equipment, edit sports complex, manage rentals, add issues, list issues, view statistics.
M04	Issues	Web resources associated with issues, ability to submit, list and manage issues are in this module. Registered Users and Managers can submit issues and Managers and Admins can list and manage them.
M05	Administration	Web resources associated with admin authentication and user's, sports complex, rentals and issues management, includes the following system features: login/logout, list users, block users, list sports complex, remove sports complex, list rentals, edit rental state, view issues, view statistics.

Permissions

This section defines the permissions used in the modules to establish the conditions of access to resources.

PUB	Public	Group of users without privileges, can only see sports complex and spaces information.
USR	Registered User	Can view certain information and is able to make a rental, manage previous rentals and add a sports complex.
OWN	Owner	Can manage his own reservations and profile.
MNG	Manager	Has the same privileges as the Registered User and also has the privileges to edit his own sports complexes information and their equipment, spaces and managers, see their rentals, issues and statistics about each sports complex.

ADM	Admin	Group with the most privileges. Can view users and sports complex information, view all the rentals and its issues, block users, remove sports complexes and view statistics about the website.
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Modules

Module M01: Authentication

Endpoints of Module Authentication

These are the endpoints available in the Authentication module.

R101: Login Form /pages/authentication/login.php

R102: Login Action /actions/authentication/login.php

R103: Logout Action /actions/authentication/logout.php

R104: Registration Form /pages/authentication/signup.php

R105: Registration Action /actions/authentication/signup.php

R101: Login Form

URL	/pages/authentication/login.php
Description	Authentication form: it requires the user's username and password.
Method	GET
UI	UI02 FINAL
SUBMIT	R102
Permissions	PUB

R102: Login Action

URL	/actions/authentication/login.php
Description	Authentication with the data from the login form.
Method	POST
Parameters	+username: string User's username
	+password: string User's password
Redirects	R201 Login sucessful, returns to the home page
	R101 Login unsucessful, stays in the same page and shows a "login failed" message, explaining why
Permissions	PUB

R103: Logout Action

URL	/actions/authentication/logout.php
Description	The user is no longer authenticated.
Method	POST

Redirects	R201	Logout sucessful, returns to the web application home page
	R201	Logout unsuccessful, returns to the home page and shows a pop up alerting the user that the logout was not sucessful
Permissions	PUB	

R104: Registration Form

URL	/pages/authentication/signup.php
Description	Form to register the user on the web application which requires the user's: name, username, password, email, phone number and location.
Method	GET
UI	UI03 FINAL
SUBMIT	R105
Permissions	PUB

R105: Registration Action

URL	/actions/authentication/signup.php	
Description	Registration with the data from the registration form.	
Method	POST	
Parameters	name: string	User's name
	username: string	User's username
	password: string	User's password
	confirm: string	User's password confirmation
	email: string	User's email
	contact: string	User's phone number
	municipalityID: integer	User's municipality ID
Redirects	R101	Registration successful, goes to the login page so the user can login with his registered account
	R104	Registration unsuccessful, stays in the same page showing a error message to tell the user that the registration was unsuccessful and why that happened
Permissions	PUB	

Module M02: Users**Endpoints of Module Users**

These are the endpoints available in the Users Module.

R201: Search Sports Complexes /pages/users/home.php

R202: List Sports Complexes and Search Form /pages/users/searchResults.php

R203: Profile View and Edit /pages/users/profile.php

R204: Edit Profile Action /actions/users/editProfile.php

R205: Edit Profile Password Action /actions/users/editPassword.php

R206: Manage Rentals /pages/users/manageRentals.php

R207: View Sport Complex /pages/users/sportComplex.php**R208: View Space /pages/users/space.php****R209: Get Search Results API actions/users/search.php****R210: Get Sports Complex Information API actions/users/sportComplex.php****R211: Get Space Information API /actions/users/space.php****R212: Cancel Rental Action /actions/users/cancelRental.php****R213: Get Sport Complex Spaces API /actions/users/complexSpaces.php****R214: Get Profile Information API /actions/users/profile.php****R215: Add Rental Rating /actions/users/rentalRating.php****R201: Search Sports Complexes**

URL	/pages/users/home.php
Description	Page with the initial form for searching for sports complexes.
Method	GET
UI	UI01 FINAL
Permissions	PUB

R202: List Sports Complexes and Search Form

URL	/pages/users/searchResults.php	
Description	Page that lists the sports complexes and has a more specific search form to refine the listing.	
Method	GET	
Parameters	?search: string	Text to search
UI	UI04 FINAL	
AJAX Calls	R209	
Permissions	PUB	

R203: Profile View and Edit

URL	/pages/users/profile.php	
Description	Page that shows the user profile and allows the user to edit his information	
Method	GET	
UI	UI07	
SUBMIT	R204, R205	
AJAX Calls	R214	
Permissions	OWN	

R204: Edit Profile Action

URL	/actions/users/editProfile.php	
Description	Action to set a complex state to inactive.	
Method	POST	
Parameters	+name: string	User's name
	+username: string	User's username
	+email: string	User's email

	+tel: string	User's phone number
	+municipality: integer	User's municipality
Redirects	R203	If the new information is accepted and altered the user is redirected to the profile view page
	R203	If the new information is not accepted, the user is redirected to the profile view page and an error message will appear to show the user what went wrong (incorrect parameters, etc)
Permissions	OWN	

R205: Edit Profile Password Action

URL	/actions/users/editPassword.php	
Description	Action used to edit the user's password.	
Method	POST	
Parameters	+password: string	User's old password
	+newPassword: string	User's new password
	+newPasswordConfirm: string	User's new password confirmation
Redirects	R203	If the new information is accepted and altered the user is redirected to the profile view page
	R203	If the new information is not accepted, the user is redirected to the profile view page and an error message will appear to show the user what went wrong (incorrect parameters, etc)
Permissions	OWN	

R206: Manage Rentals

URL	/pages/users/manageRentals.php	
Description	Page where the users can manage their rentals. View details, report issues, rate spaces and cancel rents.	
Method	GET	
Parameters	+page: string	Page used for pagination
UI	UI08 FINAL	
Permissions	OWN	

R207: View Sport Complex

URL	/pages/users/sportComplex.php	
Description	Sports Complex page with it's information and respective spaces.	
Method	GET	
Parameters	?complexID: integer	Sports Complex's identifier
AJAX Calls	R213	
UI	UI05 FINAL	
Permissions	PUB	

R208: View Space

URL	/pages/users/space.php
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Description	Page where the users can view and rent a space.	
Method	GET	
Parameters	?spaceID: integer	Space's identifier
UI	UI06 FINAL	
SUBMIT	R211	
Permissions	PUB	

R209: Get Search Results API

URL	action/users/search.php	
Description	API service for search results	
Method	GET	
Request body	JSON001	
Response body	JSON002	
Returns	200 OK	Database call was successful
	405 METHOD NOT ALLOWED	Database call was unsuccessful
Permissions	PUB	

R210: Get Sports Complex Information API

URL	action/users/sportComplex.php	
Description	API service for the sports complex page	
Method	GET	
Request body	JSON003	
Response body	JSON004	
Returns	200 OK	Database call was successful
	405 METHOD NOT ALLOWED	Database call was unsuccessful
Permissions	PUB	

R211: Get Space Information API

URL	action/users/space.php	
Description	API service for the space page	
Method	GET	
Request body	JSON005	
Response body	JSON006	
Returns	200 OK	Database call was successful
	405 METHOD NOT ALLOWED	Database call was unsuccessful
Permissions	PUB	

R212: Cancel Rental Action

URL	/actions/users/cancelRental.php	
Description	Action to set a rental state to canceled by the user.	
Method	GET	
Parameters	+rentalID: integer	Rental ID
Redirects	R206	Successfully canceled a rental, returns to the rentals page

Permissions	OWN
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R213: Get Sport Complex Spaces Information API

URL	action/users/complexSpaces.php	
Description	API service for the space page	
Method	GET	
Request body	JSON007	
Response body	JSON008	
Returns	200 OK	Database call was successful
	405 METHOD NOT ALLOWED	Database call was unsuccessful
Permissions	PUB	

R214: Get Profile Information API

URL	action/users/profile.php	
Description	API service for the edit profile page	
Method	GET	
Response body	JSON009	
Returns	200 OK	Database call was successful
	405 METHOD NOT ALLOWED	Database call was unsuccessful
Permissions	PUB	

R215: Add Rental Rating Action

URL	/actions/users/rentalRating.php	
Description	Action used to edit the rental's rating.	
Method	GET	
Parameters	+rentalID: integer	Rental's id
	+rating: integer	Rental's new rating
Redirects	R206	If the new information is accepted and altered the user is redirected to the manage rentals page
	R206	If the new information is not accepted, the user is redirected to the manage rentals page and told the rating was unsuccessfully attributed
Permissions	OWN	

R216: Get Profile Information Action

URL	/actions/users/profile.php	
Description	Action used to get the user's information.	
Method	GET	
Parameters		

Module M03: Complex Manager

Endpoints of Complex Manager

These are the endpoints available in the Managers Module.

R301: Add Space Form /pages/managers/addSpace.php
R302: Add Space Form Action /actions/managers/addSpace.php
R303: Manage Spaces /pages/managers/manageSpaces.php
R304: Edit Space Action /actions/managers/editSpace.php
R305: Complex Managers /pages/managers/complexManagers.php
R306: Add Manager Action /actions/managers/addManager.php
R307: Edit Complex /pages/managers/editComplex.php
R308: Edit Complex Action /actions/managers/editComplex.php
R309: Manage Equipment /pages/managers/manageEquipment.php
R310: Add Equipment Action /actions/managers/addEquipment.php
R311: Manage Rentals /pages/managers/manageRentalsManager.php
R312: Make Rental Action /actions/managers/makeRental.php
R313: Cancel Rental Action /actions/managers/cancelRental.php
R314: View Statistics /pages/managers/managerStatistics.php
R315: Delete Manager Action /actions/managers/removeManager.php
R316: Add Sport Complex Form /pages/managers/addComplex.php
R317: Add Sport Complex Form Action /actions/managers/addComplex.php
R318: Manage Complexes /actions/managers/manageComplexes.php
R319: Edit Equipment Action /actions/managers/editEquipment.php
R320: Get Equipment API /actions/managers/getEquipment.php
R321: Make Rental Action /actions/managers/makeRental.php
R322: Resolve Issue Action /actions/managers/resolveIssue.php

R301: Add new Space Form

URL	/pages/managers/addSpace.php	
Description	Page where the manager can add a space to one of his complexes.	
Method	GET	
Parameters	?complexID: integer	Space's complex
UI	UI14 FINAL	
SUBMIT	R302	
Permissions	MNG	

R302: Add Space Form Action

URL	/actions/managers/addSpace.php	
Description	Action to add a new space to a sports complex.	
Method	POST	
Parameters	+name: string	Space's name
	+complexID: integer	Space's complex
	+surface: integer	Space's surface type
	+coverage: integer	Space's coverage type
	+price: integer	Space's price per hour

	+sports: integer[]	Space's sports
Redirects	R303	Space successfully added, goes to the page of all the spaces
	R301	Adding space failed, stays in the same page and shows a message "Failed to add a new space to the sports complex"
Permissions	MNG	

R303: Manage Spaces

URL	/pages/managers/manageSpaces.php	
Description	Page where the manager can manage the spaces of his complexes.	
Method	GET	
Parameters	?complexID: integer	Space's complex
UI	UI13 FINAL	
SUBMIT	R301, R302, R304	
Permissions	MNG	

R304: Edit Space Action

URL	/actions/managers/editSpace.php	
Description	Action to add a edit a space's information.	
Method	PUT	
Parameters	+spaceID: integer	Space's identifier
	+complexID: integer	Space's complex ID
	+surface: integer	Space's surfacetype
	+name: string	Space's name
	+coverage: integer	Space's coverage type
	+price: integer	Space's price per hour
	+availability: boolean	Space's availability
	+sports: integer[]	Space's sports
Redirects	R303	Editing a space successfull, returns to the spaces page
	R303	Editing a space failed, returns to the spaces page and shows a message "Editing the space failed"
Permissions	MNG	

R305: Complex Managers

URL	/pages/managers/complexManagers.php	
Description	Page where the manager can add or remove other managers from his sport complexes.	
Method	GET	
Parameters	?complexID: integer	Complex's identifier
UI	UI17 FINAL	
SUBMIT	R306, R315	
Permissions	MNG	

R306: Add Manager Action

URL	/actions/managers/addManager.php	
Description	Action to add a new manager to a sports complex.	
Method	POST	
Parameters	+managerEmail: string	User's email
	+complexID: integer	Complex's ID
Redirects	R305	Successfully added a manager, returns to the managers page
	R305	Failed on adding a new manager, returns to the managers page and shows a message "failed to add new manager"
Permissions	MNG	

R307: Edit Complex

URL	/pages/managers/editComplex.php	
Description	Page where the manager can add spaces to his complexes.	
Method	GET	
Parameters	?complexID: integer	Complex's ID
UI	UI11 FINAL	
SUBMIT	R308	
Permissions	MNG	

R308: Edit Complex Action

URL	/actions/managers/editComplex.php	
Description	Action to add a new manager to a sports complex.	
Method	POST	
Parameters	+name: string	Sports Complex's name
	+complexID: integer	Sports Complex's ID
	+location: string	Sports Complex's location
	+municipality: integer	Sports Complex's municipality
	+email: string	Sports Complex's email
	+contact: string	Sports Complex's contact
	+description: string	Sports Complex's description
	+openingHour: time	Sports Complex's opening hours
	+closingHour: time	Sports Complex's closing hours
	+openOnWeekends: boolean	Sports Complex's open on weekends
	+paypal: string	Sports Complex's paypal
Redirects	R318	Successfully edited a complex, returns to the managers page
	R318	Failed editing a complex, returns to the managers page and show a message "failed editing a complex"
Permissions	MNG	

R309: Manage Equipment

URL	/pages/managers/manageEquipment.php
Description	Page where the manager can manage the equipment of his sport complexes.

Method	GET	
Parameters	?complexID: integer	Sports Complex's ID
UI	UI15 FINAL	
SUBMIT	R310, R319	
Permissions	MNG	

R310: Add Equipment Action

URL	/actions/managers/addEquipment.php	
Description	Action to add new equipment to a sports complex.	
Method	POST	
Parameters	+name: string	Equipment name
	+complexID: integer	Complex's ID
	+quantity: integer	Equipment stock number
	+details: string	Equipment details
	+price: float	Equipment rice of rent
	+sports: integer[]	Equipment sports
Redirects	R309	Successfully added an equipment, returns to the equipment page
	R309	Failed on adding a new equipment, returns to the equipment page and show a message "failed on adding a new equipment"
Permissions	MNG	

R311: Manage Rentals

URL	/pages/managers/manageRentalsManager.php	
Description	Page where the manager can manage the rentals of his sport complexes.	
Method	GET	
Parameters	?complexID: integer	Complex's ID
	?page: integer	Page
UI	UI12 UI12	
SUBMIT	R312, R313	
Permissions	MNG	

R312: Make Rental Action

URL	/actions/managers/makeRental.php	
Description	Make rental	
Method	POST	
Parameters	+userID: integer	User doing the rent
	+spaceID: integer	Space the user is renting
	+equipmentIDs: integer[]	List of equipment the user is renting
	+quantities: integer[]	List of quantities of the equipment the user is renting
	+date: date	Date for which the user is making the rent
	+startTime: time	Time of the day the user is making the rent for
	+duration: interval	Time the user wants the rent to last
Redirects	R311	Successfully added a rental, returns to the rentals page

	R311	Failed on adding a new rental, returns to the rentals page and shows a message "failed on adding a new rental"
Permissions	MNG	

R313: Cancel Rental Action

URL	/actions/managers/cancelRental.php	
Description	Action to set a rental state to concluded.	
Method	POST	
Parameters	+rentalID: integer	Rental ID
	+complexID: integer	Complex ID
Redirects	R311	Successfully canceled a rental, returns to the rentals page
Permissions	MNG	

R314: View Statistics

URL	/pages/managers/managerStatistics.php	
Description	Page where the manager can view statistics about his sport complexes.	
Method	GET	
Parameters	?complexID: integer	Complex's ID
UI	UI18 FINAL	
Permissions	MNG	

R315: Delete Manager Action

URL	/actions/managers/removeManager.php	
Description	Action to remove a manager from the sports complex managers list, removing that user manager privileges.	
Method	POST	
Parameters	+managerID: integer	User ID
	+complexID: integer	Sports Complex ID
Redirects	R305	Successfully deleted a manager, returns to the managers page
	R305	Failed on deleting a manager, returns to the managers page and shows a message "failed on deleting this manager"
Permissions	MNG	

R316: Add Sport Complex Form

URL	/pages/managers/addComplex.php	
Description	Page where the user can add a new sports complex by providing the necessary information through the available form.	
Method	GET	
UI	UI10 FINAL	
SUBMIT	R318	
Permissions	USR	

R317: Add Sport Complex Form Action

URL	/actions/managers/addComplex.php	
Description	Action used to add a new sports complex to the web application.	
Method	POST	
Parameters	+name: string	Sports complex's name
	+location: string	Sports complex's location
	+municipality: integer	Sports complex's description
	+email: string	Sports complex's email
	+contact: string	Sports complex's contact
	+description: string	Sports complex's description
	+openingHour: time	Sports complex's opening hour
	+closingHour: time	Sports complex's closing hour
	+openOnWeekends: boolean	Sports complex's open on weekends confirmation
	+paypal: string	Sports complex's paypal number
Redirects	R318	Successfully adds a sports complex and redirects to its page
	R316	Failed on adding a new sports complex to the website, redirects it to the add complex page and shows message "failed to add new sports complex"
Permissions	MNG	

R318: Manage Sports Complexes

URL	/pages/users/manageSportsComplexes.php	
Description	Page where the users can manage their sports complexes. They can add a new sports complex (and become its manager) or manage already existing ones.	
Method	GET	
UI	UI09 FINAL	
Permissions	MNG	

R319: Edit Equipment Action

URL	/actions/managers/editEquipment.php	
Description	Action used to edit equipment from the sports complex.	
Method	POST	
Parameters	+itemName: string	Equipment name
	+quantity: integer	Equipment quantity
	+details: string	Equipment details
	+price: integer	Equipment price
	+equipmentID: integer	Equipment ID
	+quantityUnavailable: integer	Equipment quantity unavailable
	+available: boolean	Equipment is available
	+complexID: integer	Equipment complex ID
Redirects	R309	Successfully adds a sports complex and redirects to its page

	R309	Failed on adding a new sports complex to the website, redirects it to the add complex page and shows message "failed to add new sports complex"
Permissions	MNG	

R320: Get Equipment API

URL	action/managers/getEquipment.php	
Description	API service for the space page	
Method	GET	
Request body	JSON011	
Response body	JSON012	
Returns	200 OK	Database call was successful
	405 METHOD NOT ALLOWED	Database call was unsuccessful
Permissions	PUB	

R321: Make Rental Action

URL	/actions/managers/makeRental.php	
Description	Action that finalizes the rental	
Method	POST	
Parameters	+userID: integer	User doing the rent
	+spaceID: integer	Space the user is renting
	+equipmentIDs: integer[]	List of equipment the user is renting
	+quantities: integer[]	List of quantities of the equipment the user is renting
	+date: date	Date for which the user is making the rent
	+startTime: time	Time of the day the user is making the rent for
	+duration: interval	Time the user wants the rent to last
Redirects	R206	If the rental is successful, the web application will redirect the user to the manage rentals page
	R208	If the rental is not successful, the web application will redirect the user to the space where he wanted to do the reservation and tell him that the rental was not successful with a pop up message
Permissions	USR	

Module M04: Issues Management**Endpoints of Module Issues Management**

These are the endpoints available in the Issues Management module:

R401: Issues Management /pages/managers/issuesManagement.php

R402: Make Issue Action /actions/users/newIssue.php

R403: Make Issue For Admin Action /actions/users/newIssueAdmin.php

R404: Resolve Issue Action /actions/managers/removeIssue.php

R401: Issues Management

URL	pages/managers/issuesManagement.php
Description	Page where the manager can view, add and remove issues.
Method	GET
UI	UI16 FINAL
SUBMIT	R402, R404
Permissions	MNG

R402: Make Issue Action

URL	/actions/managers/newIssue.php	
Description	Action to add a new issue related to a sports complex.	
Method	POST	
Parameters	+subject: string	Issue subject
	+category: string	Issue category
	+to: string	Issue destinitary
	+description: string	Issue description
Redirects	R401	Successfully added an issue, returns to the issues page
	R401	Failed on adding an issue, returns to the isseus page and show a message "failed on adding a new issue"
Permissions		

R403: Make Issue For Admin Action

URL	/actions/managers/newIssueAdmin.php	
Description	Action to add a new issue directly to the administration.	
Method	POST	
Parameters	+subject: string	Issue subject
	+category: string	Issue category
	+description: string	Issue description
Redirects	R201	Successfully added an issue, returns to the issues page
	R201	Failed on adding an issue, returns to the isseus page and show a message "failed on adding a new issue"
Permissions	OWN	

R404: Resolve Issue Action

URL	/actions/managers/resolveIssue.php	
Description	Action to resolve an issue from the sports complex issues list.	
Method	POST	
Parameters	+issueID: integer	Issue ID
	+complexID: integer	Sports Complex ID
Redirects	R401	Successfully resolves an issue, returns to the manage issues page
	R401	Fails to resolve an issue, returns to the manage issues and shows a message "failed on resolving issue"
Permissions	MNG	

Module M05: Administration

Endpoints of Module Administration

These are the endpoints available in the Administration Module.

R501: Complex Management /pages/admins/adminComplexes.php
R502: Complex Block Action /actions/admins/blockComplex.php
R503: Complex Unblock Action /actions/admins/unblockComplex.php
R504: Admin Login Form /pages/admins/admin.php
R505: Admin Login Form Action /actions/admins/login.php
R506: Admin Signup Form /pages/admins/adminSignup.php
R507: Admin Signup Form Action /actions/admins/signup.php
R508: Admin Logout Action /actions/admins/logout.php
R509: Rental Management /pages/admins/adminRentals.php
R510: View Statistics /pages/admins/adminStatistics.php
R511: Users Management /pages/admins/adminUsers.php
R512: Users Block Action /actions/admins/blockUser.php
R513: Users Unblock Action /actions/admins/unblockUser.php
R514: Issues Management /pages/admins/adminIssues.php
R515: Admin Requests /pages/admins/adminRequests.php
R516: Admin Requests Action /actions/admins/adminRequests.php
R517: Rental State Action /actions/admins/changeStateRental.php

R501: Complex Management

URL	/pages/admins/adminComplexes.php	
Description	Page where the admin can view and delete complexes.	
Method	GET	
Parameters	+page: integer	Page
UI	UI21 FINAL	
SUBMIT	R502,503	
Permissions	ADM	

R502: Complex Block Action

URL	/actions/admins/blockComplex.php	
Description	Action to deactivate a complex (stop it from being available to the user)	
Method	GET	
Parameters	+complexID: integer	Sports Complex ID
Redirects	R501	Successfully blocked a complex, returns to the complex management page

	R501	Failed on blocking a complex, returns to the complex management page and shows a message "failed on blocking complex"
Permissions	ADM	

R503: Complex Unblock Action

URL	/actions/admins/unblockComplex.php	
Description	Action to activate a complex (make it available to the user again)	
Method	GET	
Parameters	+complexID: integer	Sports Complex ID
Redirects	R501	Successfully activate a complex, returns to the complex management page
	R501	Failed on activating a complex, returns to the complex management page and shows a message "failed on activating complex"
Permissions	ADM	

R504: Admin Login Form

URL	/pages/admins/admin.php
Description	Page where the admin can login.
Method	GET
UI	UI19 FINAL
SUBMIT	R505
Permissions	ADM

R505: Admin Login Form Action

URL	/actions/admins/login.php	
Description	Action to login as an admin	
Method	POST	
Parameters	+username: string	Admin username
	+password: string	Admin password
Redirects	R501	Successfully logged in, goes to the complex management page
	R503	Failed logging in, returns to the login form page and shows a message "failed login"
Permissions	ADM	

R506: Admin SignUp Form

URL	/pages/admins/adminSignup.php
Description	Page where the admin can signup.

Method	GET
UI	FINAL
SUBMIT	R507
Permissions	ADM

R507: Admin SignUp Form Action

URL	/actions/admins/signup.php	
Description	Action to signup as an admin	
Method	POST	
Parameters	+username: string	Admin username
	+password: string	Admin password
	+confirm: string	Admin password confirmation
Redirects	R504	Successfully signed up in, goes to the admin login page
	R507	Failed signing up, returns to the signup form page and shows a message "signup failed"
Permissions	ADM	

R508: Admin Logout Action

URL	/actions/admins/logout.php	
Description	Action for the admin to logout	
Method	GET	
Redirects	R501	Successfully logging out, returns to the admin login page
	R501	Failed on logging out, returns to the admin login page and shows an error message
Permissions	ADM	

R509: Rental Management

URL	/pages/admins/adminRentals.php	
Description	Page where the manager can view and manage all rentals.	
Method	GET	
Parameters	+page: integer	Page
	+issue: integer	If the rentals to be showed are the ones with issues or all of them
UI	UI22 FINAL	
SUBMIT	R509, 517	
Permissions	ADM	

R510: View Statistics

URL	/pages/admins/adminStatistics.php	
Description	Page where the manager can view statistics about the system.	
Method	GET	
UI	UI23 FINAL	
Permissions	ADM	

R511: Users Management

URL	/pages/admins/adminUsers.php
Description	Page where the manager can view and manage all users.
Method	GET
UI	UI20 FINAL
SUBMIT	R512, R513
Permissions	ADM

R512: Users Block Action

URL	/actions/admins/blockUser.php	
Description	Action to block a user account	
Method	POST	
Parameters	+userID: integer	User ID
Redirects	R511	Successfully blocked an user, returns to the users management page
	R511	Failed on blocking an user, returns to the users management page and shows a message "failed to block this user"
Permissions	ADM	

R513: Users Unblock Action

URL	/actions/admins/unblockUser.php	
Description	Action to unblock a user account	
Method	POST	
Parameters	+userID: integer	User ID
Redirects	R511	Successfully unblock a user, returns to the users management page
	R511	Failed on unblocking an user, returns to the users management page and shows a message "failed to unblock this user"
Permissions	ADM	

R514: Issues Management

URL	/pages/admins/adminIssues.php	
Description	Page where the admin can view issues sent directly to him.	
Method	GET	
Parameters	+page: integer	Page
UI		FINAL
SUBMIT	R322	
Permissions	ADM	

R515: Admin Request Page

URL	/pages/admins/adminRequests.php
Description	Page where the admin can view, accept and remove new admin requests.
Method	GET

UI	FINAL
SUBMIT	R516
Permissions	ADM

R516: Admin Request Action

URL	/actions/admins/adminRequests.php		
Description	Action to accept an admin request		
Method	POST		
Parameters	+adminID: integer	Admin identifier	
Redirects	R505	Successfully set the state of a rental, returns to the rental management page	
	R515	Failed on setting a state of a rental, returns to the rental management page and shows a message "failed on setting the rental state"	
Permissions	ADM		

R517: Rental State Action

URL	/actions/admins/changeRentalState.php		
Description	Action to change the rental state		
Method	POST		
Parameters	+rentalID: integer	Rental identifier	
	+type: string	State to attribute to the rental	
Redirects	R509	Successfully set the state of a rental, returns to the rental management page	
	R509	Failed on setting a state of a rental, returns to the rental management page and shows a message "failed on setting the rental state"	
Permissions	ADM		

JSON/XML types

JSON01: <file json json01.json> {

```
'name': 'bob',
'municipality': 10,
'sport': 4,
'date': '2017-05-30',
'startingTime': null,
'duration': null,
'surface': null,
'coverage': 'true'
```

}

JSON02: <file json json02.json> {

```
"complexID": 99,  
"complexName": 'My Sports Complex',  
"municipalityName": 'Santarém',  
"complexPhone": '915523654',  
"complexEmail": 'mycomplex@gmail.com',  
"rating": 4
```

```
}
```

JSON03: <file json json03.json> {

```
"complexID": 99
```

```
}
```

JSON04: <file json json04.json> {

```
"name": 'My Sports Complex',  
"location": 'Street number 2',  
"openOnWeekends": 'false',  
"email": 'mycomplex@gmail.com',  
"contact": '915523654',  
"description": 'It is my sport complex',  
"openingHour": '09:00:00',  
"closingHour": '21:00:00',  
"rating": 4,  
"ratingCount": 50
```

```
}
```

JSON05: <file json json05.json> {

```
"spaceID": 100
```

```
}
```

JSON06: <file json json06.json> {

```
    "spaceName": 'My Space',  
    "spaceIsCovered": 'true',  
    "spaceSurfaceType": 'Synthetic Grass',  
    "spacePrice": 5,  
    "spaceComplexID": 99,  
    "complexName": 'My Sports Complex',  
    "complexLocation": 'Street number 2',  
    "complexEmail": 'mycomplex@gmail.com',  
    "complexPhone": '915523654',  
    "complexOpeningHour": '09:00:00',  
    "complexClosingHour": '21:00:00',  
    "complexOpenOnWeekends": 'false',  
    "spaceSports": 'Football, Basketball',
```

```
"rating": 3,  
"ratingCount": 20
```

```
}
```

JSON07: <file json json07.json> {

```
"complexID": 99
```

```
}
```

JSON08: <file json json08.json> {

```
    "id": 100,  
    "name": 'My Space',  
    "isCovered": 'true',  
    "surfaceType": 'Synthetic Grass',  
    "price": 5,  
    "rating": 3
```

```
}
```

JSON09: <file json json09.json> {

```
    "userName": 'Andreia',  
    "userUsername": 'andreia13',  
    "userEmail": 'andreia@gmail.com',  
    "userPhone": '952365845',  
    "userMunicipalityID": 10
```

```
}
```

JSON10: <file json json10.json> {

```
    'spaceID': 99,  
    'date': date,  
    'startTime': startTime,  
    'duration': duration
```

```
}
```

JSON11: <file json json11.json> {

```
    "equipmentID": 3,  
    "equipmentName": 'basketball ball',  
    "equipmentQuantity": 5,  
    "equipmentQuantityUnavailable": 1,  
    "equipmentPrice": 5,  
    "rentalQuantity": 0
```

```
}
```

Revision History

Date	Description
2017/05/24	- Minor fixes
2017/06/1	- Major updates, all pages according to the final project

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