Inventory Management - Artifact 2

This artefact contains the specification of the actors and their user stories, serving as agile documentation of project requirements, in the context of the project Inventory Management.

Actors

Picture 1: System actors diagram.

Identifier	Description	Examples
User	Generic user. Can search for sports complexes and their respective items.	n/a
Unregistered user	Has all the capabilities of a generic user. Can register himself or log in to the website.	n/a
Registered user	Has all the capabilities of a generic user. Can edit his personal information, rent/reserve items, track his rentals and reservations, cancel reservations and, after a rental is finished, rate the experience and report issues to both the complex manager and/or to the website administrators. Can add sports complexes on the web application.	Eduardo Leite, Andreia Rodrigues
Manager	Has all the capabilities of a registered user. Owns at least one sports complex. Can add items and edit or remove sports complexes or items. Can also add other registered users as managers of his complexes and remove managers of the same. Is able to manage reservations, check reports for issues and view statistics. Can cancel/add reservations, have an overview and rate the user.	Eduardo Leite
Admin	Registered internally. After logging in, has access to most information registered on the web application, being responsible for the supervision and moderation of the web application. Can disable users accounts, remove registered sports complexes, regulate reservations and view statistics.	Francisco Queirós
API	External API used for payment of rentals and reservations.	PayPal

Table 1: Actors description.

User Stories

User

Identifier	Name	Priority	Description
U01	**Search**	high	As a user, I want to search for sports complexes and their respective items filtered by location, name, date and time, sport and if there's at least one space with a certain dimension, type of surface and if it has a cover or not, so that I can see information about available items according to my necessities.
U02	**List Complexes**	high	As a user, I want to be able to list sports complexes based on my search criteria, so I can select the one that looks best for my needs.
U03	**View Complex**	high	As a user, I want to be able to see a sports complex's page, so I can see what it has to offer.

Table 2: User user stories.

Unregistered User

Identifier	Name	Priority	Description
UU01	**Log in**	high	As an unregistered user, I want to log in the web application, so that I can have registered user privileges.
UU02	**Register**	high	As an unregistered user, I want to register (using username, name, password, email address, phone contact and location) in the web application, so that I can later log in the system and have registered user privileges.

Table 3: Unregistered User user stories.

Registered User

Identifier	Name	Priority	Description
RU01	**Log out**	high	As a registered user, I want to log out, so that other people can't access my account.
RU02	**Reserve**	high	As a registered user, I want to reserve an item, so that I can use it. The registered user pays for the reservation using the deployed payment system.
RU03	**Track Rentals/Reservations**	medium	As a registered user, I want to track my rentals/reservations, so that I can check their details.
RU04	**Rate**	low	As a registered user, I want to rate the sports complex in which I reserved items, within 24 hours after its conclusion, so that I can give my opinion about the services provided and have a better experience in the future.
RU05	**Report**	medium	As a registered user, I want to report the sports complex in which I rented/reserved items within 24 hours after its conclusion, so that I can report issues in the services provided to the sports complex owner or admin, such as defects in equipment used or abusive practices.

Identifier	Name	Priority	Description
RU06	**Cancel Reservation**	medium	As a registered user, I want to cancel a rental/reservation at least 24 hours before its start, so that I can inform the sports complex managers about my change of mind/inability to proceed with the reservation and making the items available again for other people and not being charged.
RU07	**View profile**	medium	As a registered user, I want to view my personal information, so that I can know what information I'm sharing.
RU08	**Edit Profile**	medium	As a registered user, I want to edit my personal information (name, password, email address, phone contact, location or picture), so that I can keep it updated.
RU09	**Register Sports Complex**	high	As a registered user, I want to register a sports complex (name, location, opening hours, contact information, PayPal account and a brief description), so that I can use the web application to manage it.
RU10	**View Space**	high	As a registered user, I want to view a space and its information, so that I can use the web application to manage it.
RU11	**Contact Admin**	medium	As a registered user, I want to contact the admin, so I can deal and resolve any problem I have.

Table 4: Registered User user stories.

Manager

Identifier	Name	Priority	Description
M01	**Add Manager**	medium	As a manager, I want to add another registered user as one of my sports complex's managers, so that I can have other people help managing said complex.
M02	**Remove Manager**	medium	As a manager, I want to remove another manager of one of my sports complexes, so that I can have control over who has access.
M03	**Add Equipment**	high	As a manager, I want to add an equipment to a sports complex (name, quantity available, sports applicable and price of rent per hour), so that I can manage the inventory and let my customers reserve said equipment.
M04	**Add Space**	high	As a manager, I want to add a space to a sports complex (type of floor, coverage, dimensions, sports applicable and price of rent per hour), so that I can manage the inventory and let my customers reserve said space.
M05	**Deactivate Item**	high	As a manager, I want to deactivate an item of a sports complex, so that I can manage the inventory.
M06	**View Item**	medium	As a manager, I want to view a sports complex's item's information, so I can see what I am offering and check for mistakes.
M07	**Edit Item**	medium	As a manager, I want to edit an item's information (the information I added when registering it, current state and picture) of a sports complex, so that I can keep it updated.

Identifier	Name	Priority	Description
M08	**Deactivate Sports Complex**	medium	As a manager, I want to deactivate sports complexes, so I can deactivate complexes I no longer should manage or no longer exist. (If a manager manages 0 sports complexes, it should go back to being just a registered user).
M09	**Edit Sports Complex**	medium	As a manager, I want to edit a sports complex's information, so that I can keep it updated.
M10	**View Reservations**	high	As a manager, I want to view the reservations made on my sports complexes, so that I check on their state.
M11	**View Issues**	medium	As a manager, I want to view issues, so that I can track any user complaints or defects on my items.
M12	**View Statistics**	low	As a manager, I want to be able to view statistics about my complex(es) (reservation rate, reservation time length, defect rate, days with most affluence to the sports complex and users with the most reservations), so that I can be well informed for future decisions.
M13	**Add Reservations**	medium	As a manager, I want to be able to add reservations to my own complex, so that I can avoid conflicts with offline reservations.
M14	**Cancel Reservations**	high	As a manager, I want to be able to cancel reservations, so that I can easily inform the user that something went wrong.
M15	**Rate User**	low	As a manager, I want to be able to rate the user, so that myself and other manager have some reference about his expected behavior.
M16	**Add Issue**	medium	As a manager, I want to add issues, so that I can have a register of the defective items in my inventory.
M17	**Remove issue**	medium	As a manager, I want to remove issues, so that I can remove resolved issues.
M18	**Manage spaces**	high	As a manager, I want to manage the spaces of a specific complex, so that I can edit their information

Table 5: Manager user stories.

Admin

Identifier	Name	Priority	Description
A01	**Admin Log In**	medium	As an admin, I want to log in the web application, so that I can have access to admin tools.
A02	**Admin Log Out**	medium	As an admin, I want to log out, so that other people can't access my admin privileges.
A03	**Block User**	low	As an admin, I want to be able to block users, this way I can prevent an abusive user to continue with his incorrect conduct.
A04	**Deactivate Sports Complex**	low	As an admin, I want to be able to deactivate sports complexes, so that I can deal with fake or abusive registered complexes.

Identifier	Name	Priority	Description
A05	**Change State of Reservations**	medium	As an admin, I want to be able to change the state of reservations to suspended or concluded, so that I can intervene in cases the user reported an issue and then conclude the reservation. In case a refund is necessary it will be arranged offline with the users.
A06	**Deactivate Reservations**	low	As an admin, I want to be able to deactivate reservations, so that I can handle cases where there is a reservation that both user and manager agreed to deactivate and it's past the canceling period.
A07	**View Statistics**	low	As an admin, I want to be able to view statistics about the number of registered users, registered complexes and reservations made, so that I can be well informed for future decisions.
A08	**View Reservations**	medium	As an admin, I want to be able to view reservations, so that I can manage them.
A09	**Filter Reservations**	low	As an admin, I want to be able to filter reservations by existence of issues so that I can easily identify the ones with issues.
A10	**View Registered Users**	low	As an admin, I want to be able to view information about the registered users, so that I can control user content.
A11	**View Complexes**	low	As an admin, I want to be able to view information about the registered users and complexes, so that I can control the web application public content.
A12	**Sign Up**	low	As an admin, I want to be able to sign up a new admin account for future authentication.
A13	**View Issues**	low	As an admin, I want to be able to view information about issues created in the service, so I can see what problems exist.

Table 6: Admin user stories.

Revision History

Date	Description
2017/03/01	- Added details about search filters - Added "so that" clause to log out - Reduced the priority of report related user stories - Admin user stories are now more explicit - Added details about the payment system - Moved "Add Sport Complex" user story to registered user - Refund process explained - Added new user stories to the role "User" - Some compound user stories were broken down into smaller more independent user stories - Added view profile user story - Added admin login and logout - Added notion of time - Expanded the information in edit items at A2 to match A1 - Added view user story in the manager for items and complexes
2017/03/15	- Added mention of price per hour for items

Date	Description
2017/04/26	- Added new user story for the management of spaces of a specific complex in the manager's user stories.
2017/05/18	- Added new user story in the registered user's user stories for this type of users to view their spaces. - Changed Registered User's user stories "Remote Item" and "Remove Sports Complex" to "Deactivate Item" and "Deactivate Sports Complex", respectively. - Changed Admin's user stories "Remote Sports Complex" and "Remove Reservations" to "Deactivate Sports Complex" and "Deactivate Reservations", respectively.
2017/06/01	- Added new user stories for the admins: "Sign Up" and "View Issues".

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