

A2: Actors and User stories

This artifact contains the specification of the actors and their users stories, serving as agile documentation of project requirements.

1. Actors

For the Sonic Flow system, the actors are represented in Figure 1 and described in Table 1.

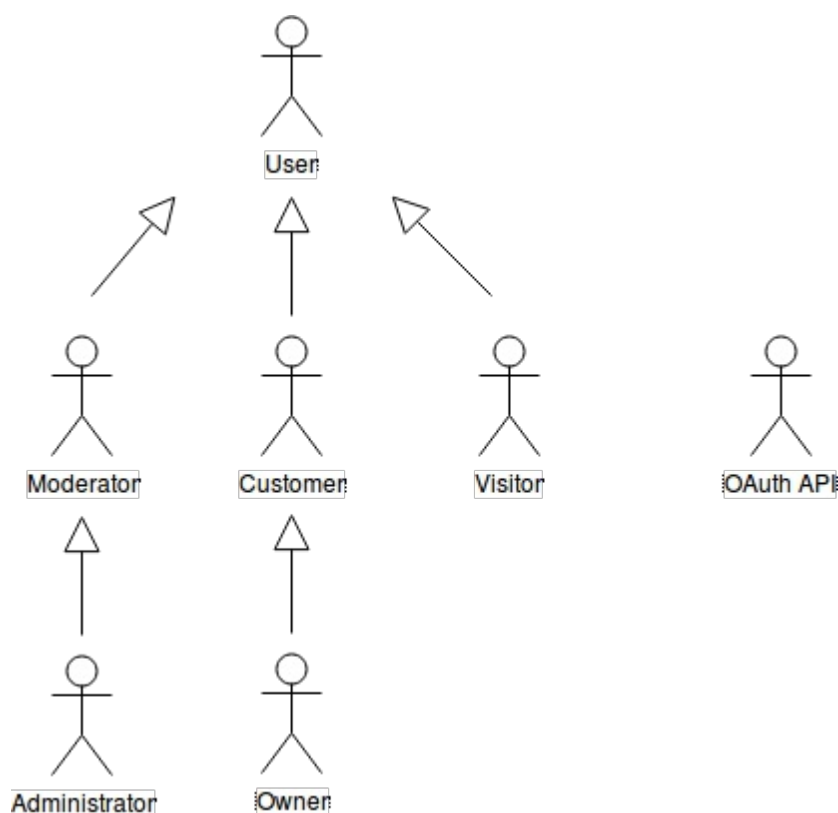


Figure 1: Actors.

Table identifying actors, including a brief description and examples.

Identifier	Description	Example
User	Generic user. Has access to public information, such as product information and	n/a

	system configurator.	
Visitor	Unauthenticated user. Can register or authenticate itself in the system. Can also add products to the shopping cart.	n/a
Customer	Authenticated user. Can buy and manage a list of favorite products as well as rate and comment them. A customer can also follow his active shipments.	jlopes
Moderator	Authenticated user with privileges to moderate product's comments.	xfontes
Administrator	Administrative account. Can manage the product listings.	edumix
OAuth API	External API to authenticate into the system.	Facebook,Google
Owner	Authenticated content owner, can edit their profile and delete his own comments.	msilva97

Table 1: Actor's description.

2. User Stories

For the Sonic Flow system, consider the user stories that are presented in the following sections.

2.1. User

Identifier	Name	Priority	Description
US01	Search	high	As an User, I want to consult all the public information, so that I can see what information the system provides.
US02	Home page	high	As an User, I want to access home page, so that I can see featured products.
US03	About page	high	As an User, I want to access about page, so that I can see a complete website's description.
US04	Contact page	high	As an User, I want to access contact page, so that I can see every contact.
US05	Shopping cart	high	As an User, I want to add items to a shopping cart, so that I can track everything I intend to buy.
US06	Comparison	medium	As an User, I want to compare similar products, so that I can check similarities and differences between two products.
US07	FAQ page	medium	As an User, I want to access FAQ page, so that I can see FAQ's.
			As an User, I want to access the system configurator, so

US08	Configurator	medium	that I can configure a custom computer build.
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Table 2: User's user stories.

2.2. Visitor

Identifier	Name	Priority	Description
US11	Log in	high	As a Visitor, I want to authenticate into the system, so that I can access privileged information.
US12	Register	high	As a Visitor, I want to register myself into the system, so that I can authenticate myself into the system.
US13	Register using external API	low	As a Visitor, I want to use register a new account linked to my Google/Facebook account, so that I can access privileged information.
US14	Log in using external API	low	As a Visitor, I want to log in through my Google/Facebook account, so that I can authenticate myself into the system.

Table 3: Visitor's user stories.

2.3. Customer

Identifier	Name	Priority	Description
US21	Product in Cart	high	As a Customer, I want to put a product in my cart, so that I can go through with the buy.
US22	Checkout	high	As a Customer, I want to got through with the checkout, so that I can pay for the items in my cart.
US23	Pay Products	high	As a Customer, I want to pay for the items in my cart, so that I can complete the order.
US23	Favorites add	high	As a Customer, I want to add an item to my favorites.
US24	Comment	high	As a Customer, I want to register a comment, so that I can manifest my opinion about a product.
US25	Rate	high	As a Customer, I want to rate a product, so that I can classify it.
US26	Purchase History	medium	As a Customer, I want to access my purchase history, so that I can see what I have previously bought.
US27	Newsletter	medium	As a Customer, I want to enable or disable newsletter, so that I can recieve updates on new products and

promotions.

US28	Availability	low	As a Customer, I want to be able to be notified when a product is available, so that I know a product I want is currently in stock.
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Table 4: Customer's user stories.

2.4. Moderator

Identifier	Name	Priority	Description
US31	Remove Comments	high	As a Moderator, I want to remove a comment, so that I remove inappropriate content.
US32	Add Offense	medium	As a Moderator, I want to record the number of offenses committed by a system user, so that moderators know how many times he has engaged in improper behavior.
US33	Ban User	medium	As a Moderator, I want to be able to ban a user when he committed too many offenses, so that I can punish improper behavior.

Table 5: Moderator's user stories.

2.5. Administrator

Identifier	Name	Priority	Description
US41	Add Product	high	As an Administrator, I want to add a product, so that I can provide new items to the system.
US42	Remove Product	high	As an Administrator, I want to remove a product, so that I can take an item off from the system.
US43	Modify Product	high	As an Administrator, I want to change a product's attributes, so that I can update the information of a given product.

2.6.Owner

Identifier	Name	Priority	Description
US51	Edit Profile	high	I want to change my information, so that I can keep it updated (e.g. password,address,profile picture).
US52	Remove Comment	high	As an Owner, I want to remove a comment I made on a product, so that I can correct mistakes or rewrite history.
US53	Favorites remove	high	As an Owner, I want to remove an item from my favorites.

US54	Account Delete	high	As an Owner, I want to be able to delete my account.
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Table 6: Owner's user stories.

A1. Annex: Supplementary requirements

This annex contains business rules, technical requirements and other restrictions on the project

A1.1. Business rules

A business rule defines or constrains one aspect of the business, with the intention of asserting business structure or influencing business behaviour.

Identifier	Name	Description
BR01	Consistency	A customer can only comment on a product he has previously bought.
BR02	Stock Management	A product can only be bought if it is available.
BR03	Loyalty Points	For each euro spent, the customer gains 1 loyalty point(LP).
BR04	Loyalty Discounts	1000 LP can be used as a 10% discount on a single purchase. This purchase will not add LP.
BR05	Comment History	When a comment is deleted it should be replaced with a generic [DELETED] comment. This prevents confusion in comments' history.

Table 7: Business Rules

A1.2. Technical requirements

Technical requirements are concerned with the technical aspects that the system must meet, such as performance-related issues, reliability issues and availability issues.

Identifier	Name	Description
TR01	Availability	The system must be available 99 percent of the time in each 24-hour period.
TR02	Accessibility	The system must ensure that everyone can access the pages, regardless of whether they have any handicap or not, or the Web browser they use.
TR03	Usability	The system should be simple and easy to use.
TR04	Performance	The system should have response times shorter than 2s to ensure the user's attention.
TR05	Web application	The system should be implemented as a Web application with dynamic pages (HTML5, JavaScript, CSS3 and PHP).
TR06	Portability	The server-side system should work across multiple platforms (Linux, Mac OS, etc.).
TR07	Database	The PostgreSQL 9.4 database management system must be used.
		The system shall protect information from unauthorised access through the

TR08	Security	use of an authentication and privilege verification system.
TR09	Robustness	The system must be prepared to handle and continue operating when runtime errors occur.
TR10	Scalability	The system must be prepared to deal with the growth in the number of users and corresponding operations.
TR11	Ethics	The system must respect the ethical principles in software development (for example, the password must be stored encrypted to ensure that only the owner knows it).

Table 8: Technical Requirements.

A1.3. Restrictions

A restriction on the design limits the degree of freedom in the search for a solution.

Identifier	Name	Description
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Table 9: Restrictions.

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