

A2: Actors and User Stories

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

1. Actors

For the **Presto** system, the actors are represented in Figure 1 and described in Table 1.

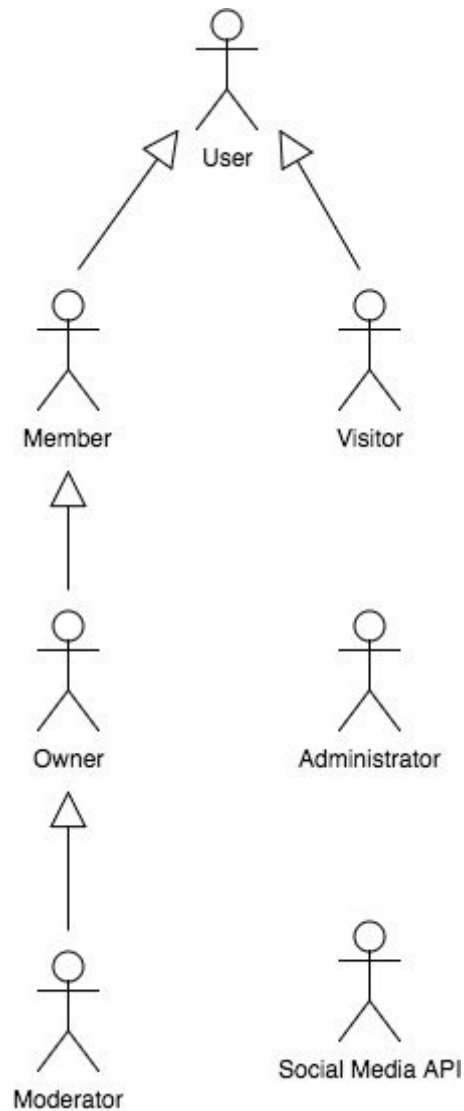


Figure 1: Actors diagram.

Identifier	Description	Examples
User	Generic user. Can access public content, such as questions and answers.	n/a
Visitor	Unauthenticated user. Can sign up or log in.	n/a
Member	Authenticated user. Can ask and answer questions, leave comments, rate content and manage their profile.	cyrilico
Owner	Authenticated user. Can manage (edit and/or remove) their own content.	diogotorres
Moderator	Authenticated user. Responsible for general content and user activity management.	antonio
Administrator	Authenticated user. Has full permissions. Responsible for user management (e.g., assigning moderators).	admin
Social Media API	Can be used to sign up and log in to the system. Also used for social media sharing.	Google, Facebook

Table 1: Actors' description.

2. User Stories

For the **Presto** system, consider the user stories that are presented in the following tables.

2.1 User

Identifier	Name	Priority	Description
US11	About page	high	As an <i>User</i> , I want to access the about page, so that I can learn more about the project and its team.
US12	Search	high	As an <i>User</i> , I want to access all the public content, so that I stay informed.
US13	Filter	high	As an <i>User</i> , I want to filter my search through various criteria, so that I can pinpoint what information I'm looking for.
US14	Sort	high	As an <i>User</i> , I want to sort my search results, in order to be shown first the content that better suits what I seek.
US15	Inline Help	high	As an <i>User</i> , I want to see small tips throughout the app, so that I can get easily accustomed to all the system's features.

Table 2: User's user stories.

2.2 Visitor

Identifier	Name	Priority	Description
US21	Log in	high	As a <i>Visitor</i> , I want to authenticate into the system, so that I can participate actively.
US22	Sign up	high	As a <i>Visitor</i> , I want to register into the system, so that I can later log in.
US23	Sign up using external API	low	As a <i>Visitor</i> , I want to register into the system using my Facebook/Google account, so that I can later log in.
US24	Log in using external API	low	As a <i>Visitor</i> , I want to log in through my Google/Facebook account, so that I can participate actively.

Table 3: Visitor's user stories.

2.3 Member

Identifier	Name	Priority	Description
US31	Question	high	As a <i>Member</i> , I want to ask a question, so that other people can answer and clear my doubts.
US32	Answer	high	As a <i>Member</i> , I want to answer a question, so that I can share my perspective on the topic.
US33	Comment	high	As a <i>Member</i> , I want to register a comment to a question or answer, so that I can manifest my opinion.
US34	Rate	high	As a <i>Member</i> , I want to rate content, so that I can help highlight better content.
US35	Notification	high	As a <i>Member</i> , I want to be notified of new activity in my content, so that I can better keep up with the feedback.
US36	Main feed	high	As a <i>Member</i> , I want to see relevant content on my feed, so that I can easily access information that interests me.
US37	Follow	high	As a <i>Member</i> , I want to follow a topic, so that I can be notified whenever there's an update.

Identifier	Name	Priority	Description
US38	Unfollow	high	As a <i>Member</i> , I want to unfollow a topic, so that i'm no longer notified when there is new activity in it.
US39	Score	high	As a <i>Member</i> , I want to see my overall score, so that I can reflect on my contributions.
US310	Log out	high	As a <i>Member</i> , I want to log out of my account, so that no one else has access to it.
US311	Follow user	high	As a <i>Member</i> , I want to follow another user, so that I can be notified of their activity.
US312	Unfollow user	high	As a <i>Member</i> , I want to unfollow another user, so that I am no longer notified of their activity.
US313	Statistics	medium	As a <i>Member</i> I want to check my content's statistics (e.g., number of views, ratings), so that I can analyze my activity.
US314	Report	medium	As a <i>Member</i> , I want to report content, so that it is reviewed by a moderator.
US315	Block user	medium	As a <i>Member</i> , I want to flag another user as blocked, so that their content is not shown to me.
US316	Mention user	medium	As a <i>Member</i> , I want to be able to mention other members, so that they are notified of content they might be interested in.
US317	Share content	low	As a <i>Member</i> , I want to share content to social media, so that more people can view content that I find interesting.
US318	Message user	low	As a <i>Member</i> , I want to privately message another <i>Member</i> , so that I can ask them something directly.
US319	Suggestions	low	As a <i>Member</i> , I want to make suggestions, so that I can help improve the application.

Table 4: Member's user stories.

2.4 Owner

Identifier	Name	Priority	Description
US41	Remove content	high	As an <i>Owner</i> , I can remove my content, so that it won't be visible anymore.
US42	Edit content	high	As an <i>Owner</i> , I can edit my content, so that I can update it.
US43	Profile	high	As an <i>Owner</i> , I want to edit my account, so that I can update my account information.
US44	Close question	high	As an <i>Owner</i> , I can mark a question as solved, so that no more answers are accepted.
US45	Reopen question	high	As an <i>Owner</i> I want to reopen a question, so that other members can post answers and discuss the topic once again.

Table 5: Owner's user stories.

2.5 Moderator

Identifier	Name	Priority	Description
US51	Remove content	high	As a <i>Moderator</i> , I can remove other members' content, so as to guarantee there is no inappropriate content.
US52	Edit content	high	As a <i>Moderator</i> , I want to edit other members' content, in order to edit out less appropriate parts in a message.
US53	Request ban	high	As a <i>Moderator</i> , I want to flag a Member to be banned, so that his activity is reviewed and he might be banned by the <i>Administrator</i> .
US54	Add certified badge	medium	As a <i>Moderator</i> , I want to mark a <i>Member</i> as a credible source, so that their content is better considered.
US55	Remove certified badge	medium	As a <i>Moderator</i> , I want to unmark a <i>Member</i> as a credible source, so that their content is no longer better considered.

Table 6: Moderator's user stories.

2.6 Administrator

Identifier	Name	Priority	Description
US61	Ban user	high	As an <i>Administrator</i> , I want to ban a <i>Member</i> , so that he can't participate actively anymore.
US62	Appoint Moderator	high	As an <i>Administrator</i> , I want to appoint a <i>Member</i> to become a <i>Moderator</i> , so that he will have <i>Moderator</i> privileges.
US63	Dismiss Moderator	high	As an <i>Administrator</i> , I want to dismiss a <i>Moderator</i> , so that he will no longer have <i>Moderator</i> privileges.

Table 7: Administrator'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	Minimum Age	All members must be, at least, 13 years old.
BR02	Self-Rating	A member cannot rate his own content.
BR03	Edit time limit	A non-moderator owner cannot edit content after a fixed period of time has passed since it was posted.

Table 8: Presto's 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

Identifier	Name	Description
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 10.2 database management system must be used
TR08	Security	The system shall protect information from unauthorised access through the 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 9: Presto's technical requirements.

A1.3. Restrictions

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

Identifier	Name	Description
C01	Delivery	The system should be ready to be used at the end of May to be able to be properly assessed before Summer, where great activity is expected.

Table 10: Presto's restrictions.

Revision History

Changes made to the first submission:

1. User story "Profile" moved from Member actor to Owner actor (new ID US43).

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