

# Code Home

## A2: Actors and User stories

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

### Actors

For the **Code Home** platform, the actors are represented in Figure 1 and described in Table 1.

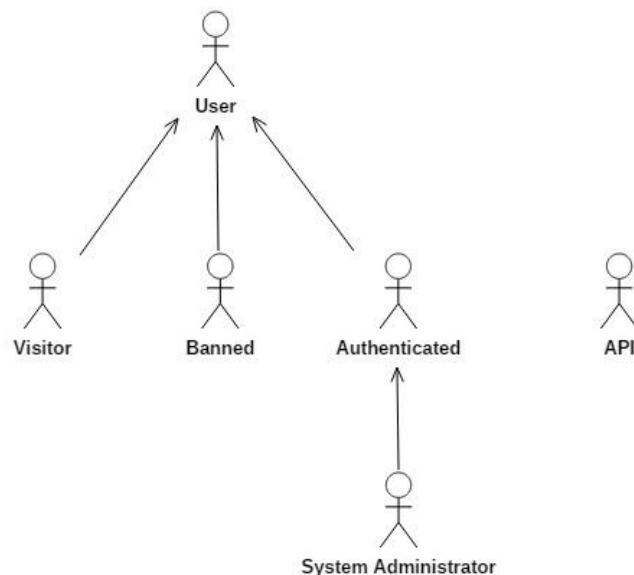


Figure 1: Actors

Identifier	Description	Examples
User	Generic user. Has access to public information, such as questions and answers in the platform.	n/a
Visitor	Unauthenticated user; Can register itself or authenticate in the platform. Inherits all possible actions from User.	n/a
Authenticated	Can consult information, post new questions and reply to existing ones and is able to log out from his account. Inherits all possible actions from User.	lbaw
Banned	Cannot authenticate, thus post and vote permissions are not granted. He is only able to view the remaining time of his ban. He cannot log out. Inherits all possible actions from User.	lbaw
Administrator	Inherits the functionalities from Authenticated. Moreover, he is responsible for the management of users and for some specific supervisory and moderation functions. Operations like banning users, removing questions, closing questions, marking answers as correct, moving questions between categories.	admin

API	External APIs that can be used to register or authenticate into the platform.	Google, Facebook
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**Table 1: Actor description**

## User Stories

For the **Code Home** platform, consider the user stories that are presented in the following sections.

### User

Identifier	Name	Priority	Description
US01	View Question Thread	High	As a User, I want to be able to view question threads to have my questions answered.
US02	Filter Questions by Name	Medium	As a User, I want to be able to filter question threads by how similar their name is to my search query in a list format sorted downwards by similarity.
US03	View Question Score	High	As a User, I want to be able to see a question thread's current vote score as an integer.
US04	View Answer Score	High	As a User, I want to be able to see the current vote score of an answer to a question thread as an integer.
US05	View User Overall Score	High	As a User, I want to be able to see a user's current overall vote score as an integer.
US06	View Comments to Questions and Answers	High	As a User, I want to be able to see comments to questions and answers as small boxes.
US07	View User Profiles	Medium	As a User, I want to be able to see a user's profile on a specific page with all his relevant information.
US08	Filter Questions by Tags	Medium	As a User, I want to be able to filter question threads by their tags and get a list sorted downwards by tags.
US09	Filter Questions by Question Score	Medium	As a User, I want to be able to filter question threads by their question's score and get a list sorted downwards by Score.
US10	Filter Questions by Author Score	Medium	As a User, I want to be able to filter question threads by the vote score of their author in a list sorted downwards by vote score.
US11	Filter Questions by a Mix of Other Methods	Medium	As a User, I want to be able to filter question threads by a mix of other available filter methods as a list sorted downwards according to the mix of methods.
US12	View Thread's Number of Views	Medium	As a User, I want to be able to see the number of views of a given question's thread as an integer.
US13	Secure Environment	Medium	As a User, I want my activity to not be revealed to external 3rd parties to keep my privacy.

**Table 2: User user stories**

## Visitor

Identifier	Name	Priority	Description
VS01	Register in the Platform	High	As a Visitor, I want to be able to register myself into the platform.
VS02	Log in to the platform	High	As a Visitor, I want to be able to authenticate myself into the platform, so that I can access privileged information.

Table 3: Visitor user stories

## Authenticated

Identifier	Name	Priority	Description
AS01	Post New Question	High	As an Authenticated user, I want to be able to create a new question on the platform.
AS02	Post New Answer	High	As an Authenticated user, I want to be able to create a new answer to an existing question.
AS03	Edit Previously Posted Question	High	As an Authenticated user, I want to be able to edit questions posted by me. Security verifications are required to make sure that I cannot edit other users' questions.
AS04	Edit Previously Posted Answer	High	As an Authenticated user, I want to be able to edit answers and comments posted by me. Security verifications are required to make sure I cannot edit other users' answers.
AS05	Change Profile Photo	High	As an Authenticated user, I want to be able to change my profile photo.
AS06	Change Name	High	As an Authenticated user, I want to be able to change the name displayed to other users.
AS07	Vote on an Answer	High	As an Authenticated user, I want to be able to vote on an answer to a question. The vote can be positive or negative.
AS08	Add a Profile Description	High	As an Authenticated user, I want to be able to add a description to my profile.
AS09	Edit Profile Description	High	As an authenticated user, I want to be able to edit my profile's description.
AS10	Log Out	High	As an Authenticated user, I want to be able to log out and become a visitor.
AS11	Change Password	High	As an Authenticated user, I want to be able to change my password.
AS12	Close Account	Medium	As an Authenticated user, I want to be able to close my account so that it is no longer usable.
AS13	Add Comment	High	As an Authenticated user, I want to be able to add small comments to questions and answers.
AS14	Remove Question	High	As an Authenticated user, I want to be able to remove questions posted by me.
AS15	Remove Answer	High	As an Authenticated user, I want to be able to remove answers posted by me.
AS16	Remove Comment	High	As an Authenticated user, I want to be able to remove comments added by me.
AS17	Mark Answer as Correct	High	As an Authenticated user, I want to be able to mark an answer to my question as correct.

AS18	Close Question Thread	High	As an Authenticated user, I want to be able to close a question thread I made so that no more comments or answers are posted.
AS19	List of Questions	High	As an Authenticated user, I want to be able to have a list of all the questions I posted both open and closed, that have not been removed.
AS20	List of Answers	High	As an Authenticated user, I want to be able to have a list with all my answers to non-removed questions and a link to their thread.
AS21	Question's Number of Views	Low	As an Authenticated user, I want to be able to track how many times my questions have been viewed.

**Table 4: Authenticated user stories**

## Banned

Identifier	Name	Priority	Description
BS01	Log in Attempt	High	As a banned user, I want to be able to attempt to authenticate myself into the platform. My authentication request should be rejected and the remaining time of my ban should be displayed as a response.

**Table 5: Banned user stories**

## Administrator

Identifier	Name	Priority	Description
SAS01	Remove Comments	High	As an Admin, I want to be able to remove comments, so that I can remove inappropriate comments.
SAS02	Remove Questions	High	As an Admin, I want to be able to remove questions, so that I can remove inappropriate questions.
SAS03	Close Questions	High	As an Admin, I want to be able to close questions, when they have already been answered or they are duplicates.
SAS04	Change Questions' Tags	High	As an Admin, I want to be able to change questions' tags to better suit their content.
SAS05	Ban Users	High	As an Admin, I want to be able to ban a user for as long I see fit, so that he can no longer access the platform.
SAS06	Unban Users	High	As an Admin, I want to be able to unban a user so that he can access the platform again.
SAS07	Edit Users' Profile	High	As an Admin, I want to be able to edit a user's profile if necessary, to follow platform rules.
SAS08	Mark Answers as Correct	High	As an Admin, I want to be able to mark any answer to a question as correct.

**Table 6: Administrator user stories**

## Annex: Supplementary requirements

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

### Business rules

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

Identifier	Name	Description
BR01	Log in	The user should not be able to log in, when he is not logged out.
BR02	Log out	The user should not be able to log out, when I'm not logged in.
BR03	Register	The user should not be able to register, when he is logged in.
BR04	Session Timeout	The authenticated user's session should be destroyed after 1 hour.
BR05	Ban time	The ban time is defined, accordingly to the severity of the irregularity, by the platform administrators.
BR06	Inappropriate Language	The authenticated user can turn to a banned user if he uses inappropriate language.
BR07	Negative Score	Once an authenticated user reaches a threshold of overall negative score on his account he will be brought up to the platform administrator for a possible ban.
BR08	Inappropriate Behavior	The authenticated user can turn to a banned user for concurrent negative attitude towards other users of the platform.
BR09	Administration of Tags	Platform administrators hold the right to change a question's tags and categories as they see fit to better suit the question's content and give it more exposure.
BR10	Administrative Deletion of Questions	Platform administrators hold the right to delete questions of any kind as they see fit, to better follow the platform's rules.
BR11	Administration of Descriptions	Platform administrators hold the right to edit individual user's descriptions as they see fit to better follow the platform's rules.
BR12	Administration of Questions	Platform administrators have the right to close questions as they see fit, to better follow the platform's rules.
BR13	Duplicate Questions	Duplicate questions will be administratively closed and linked to the thread where that same question was first asked and marked as solved.
BR14	Harassment	Harassment is considered a negative attitude and is therefore a bannable offense.
BR15	Racism	Racism is considered a negative attitude and is therefore a bannable offense.
BR16	Malware	Links to malicious content and/or any other means of spreading malware is a bannable offense with permanent duration.
BR17	Spam	Spamming is considered a negative attitude and is therefore a bannable offense.

BR18	Unrelated Questions	Posting questions or answers that are not directly connected to software engineering will lead to administrative removal of said content.
BR19	Inappropriate Username	Inappropriate usernames lead to either a ban or a forced username change.

## 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 its pages independently of 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.
TR06	Portability	The server-side system should work across multiple platforms.
TR07	Database	The PostgreSQL database management system must be used.
TR08	Security	The system shall protect information from unauthorized access using 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.

## Restrictions

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

Identifier	Name	Description
R01	Deadline	The platform should be ready to be used in the last week of classes.
R02	Work Equity	The platform should be developed equally by all team members.

## Group

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