

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.

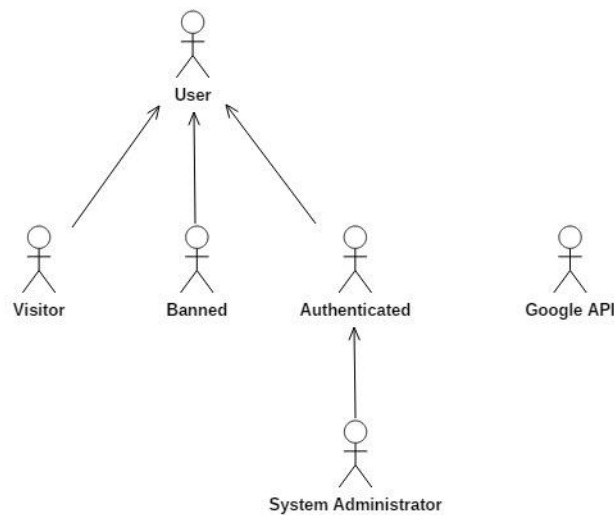


Figure 1: Actors

| 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 |

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| Google API | External APIs that can be used to register or authenticate into the platform. | Google |
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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. |

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| US14 | Access homepage | High | As a User, I want to be able to access the platform's homepage. |
| US15 | Access about | High | As a User, I want to be able to access the about page, that contains information about the platform. |
| US16 | Access FAQ | High | As a User, I want to be able to access the FAQ of the platform. |
| US17 | View contacts | High | As a User, I want to be able to contact the platform development community. |

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. |
| VS03 | Register with the Google platform | High | As a Visitor, I want to be able to register myself into the platform using the Google API. |
| VS04 | Log in with the Google platform | High | As a Visitor, I want to be able to authenticate myself into the platform using the Google API, 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. |

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| 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. |

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| 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 | Warn Users | High | As an Admin, I want to be able to warn a user of its bad conduct before, in case of continuous bad conduct, banning him. |
| SAS06 | 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. |
| SAS07 | Unban Users | High | As an Admin, I want to be able to unban a user so that he can access the platform again. |
| SAS08 | Edit Users' Profile | High | As an Admin, I want to be able to edit a user's profile if necessary, to follow platform rules. |
| SAS09 | 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. |

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| 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. |

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| 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. |

Revision History

- Specified which API the platform will use (Google API) in the Actors section (21/02/2018).
- Added homepage, about, FAQ and contacts pages to the User user stories (21/02/2018).
- Added register and login functionality using Google API to the Visitor user stories (21/02/2018).
- Added warn user functionality, before banning, to the Administrator user stories (21/02/2018).

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