

A2: Actors and User stories

1. Actors

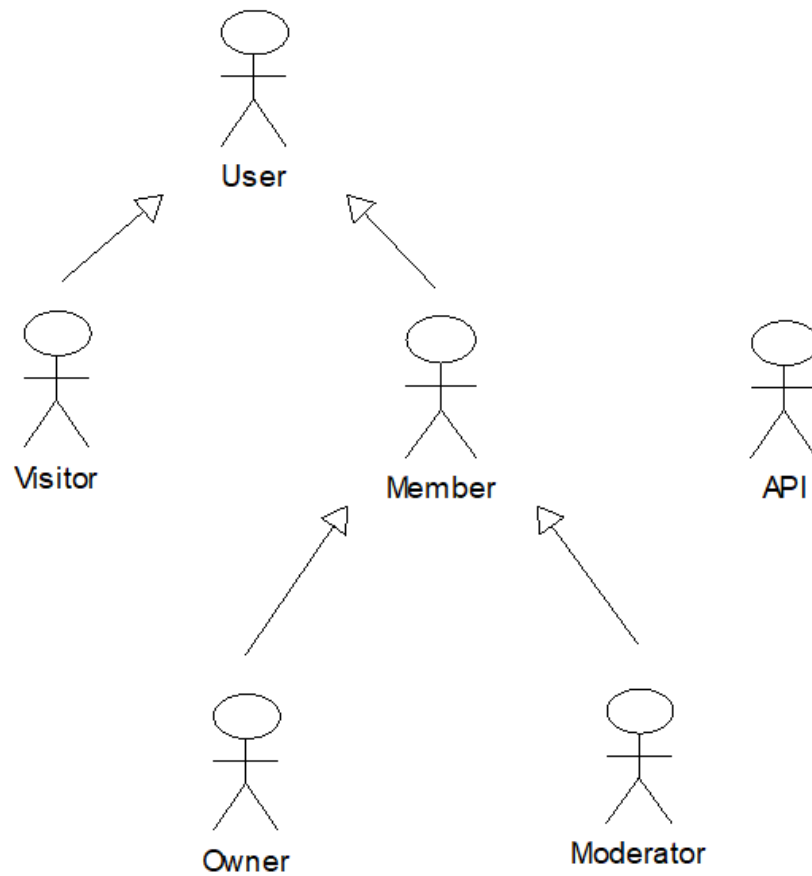


Figure 1: Actors Diagram

Figure 1: Actors.

| Identifier | Description | Examples |
|------------|--|----------|
| User | Generic user with access to public information, such as questions, their answers and their comments. | n/a |
| Visitor | Unauthenticated user that can register itself or authenticate in the system. | n/a |

| Identifier | Description | Examples |
|------------|---|-----------------------------|
| Member | Authenticated user that can create new questions, answer questions, comment and edit all the its questions, answers and comments. Can also vote other user entries. | jlopes |
| Owner | A message's author that can change its properties. | jlopes |
| Moderator | A trusted member of the community that can act as an owner of low-score messages. | jlopes |
| API | External APIs that can be used to register and / or authenticate into the system. | GitHub Login, Google+ |

Table 1: Actor's description.

2. User Stories

2.1. User

| Identifier | Name | Priority | Description | Estimated Effort (in hours) |
|------------|------------------|----------|---|-----------------------------|
| US01 | Information | High | As a User, I want to consult Questions, their Answers and their Comments, so that I can be informed. | 40 |
| US02 | Profile | High | As a User, I want to consult the profile of an authenticated User, so that I can have more information about him. | 10 |
| US03 | Search | High | As a User, I want to search for specific posts, so that I can be informed faster. | 4 |
| US04 | Category Consult | Medium | As a User, I want to consult the questions related to a given category, so that I can be informed regarding that category. | 4 |
| US05 | Profile Badges | Low | As a User, I want to consult the badges of an authenticated User, so that I can better understand his community contributions and privileges. | 12 |
| US06 | About Page | Low | As a User, I want to access the About page, so that I can see a complete website's description. | 3 |

Table 2: User’s user stories.

2.2. Visitor

| Identifier | Name | Priority | Description | Estimated Effort (in hours) |
|------------|-----------------------|----------|--|-----------------------------|
| US11 | Sign Up | High | As a Visitor, I want to register myself into the system, so that I can become a Member. | 4 |
| US12 | Log In | High | As a Visitor, I want to authenticate into the system, so that I can have Member privileges. | 2 |
| US13 | Sign Up using Github | Low | As a Visitor, I want to register myself into the system using a Github account, so that I can become a Member, spending less time registering. | 3 |
| US14 | Log In using Github | Low | As a Visitor, I want to authenticate into the system using a Github account, so that I can have Member privileges. | 1 |
| US15 | Sign Up using Google+ | Low | As a Visitor, I want to register myself into the system using a Google account, so that I can become a Member, spending less time registering. | 3 |
| US16 | Log In using Google+ | Low | As a Visitor, I want to authenticate into the system using a Google account, so that I can have Member privileges. | 1 |

Table 3: Visitor’s user stories.

2.3. Member

| Identifier | Name | Priority | Description | Estimated Effort (in hours) |
|------------|--------|----------|--|-----------------------------|
| US201 | Logout | High | As a Member, I want to logout from the system, so that my account remains safe and other users can authenticate. | 1 |

| Identifier | Name | Priority | Description | Estimated Effort (in hours) |
|------------|--------------------------|----------|--|-----------------------------|
| US202 | Create a Question | High | As a Member, I want to create a Question for the community to answer, so that I can get enlightened regarding my doubt. | 5 |
| US203 | Answer a Question | High | As a Member, I want to answer a Question created by other Member, so that I help him with his problems and doubts. | 5 |
| US204 | Edit Profile Information | High | As a Member, I want to edit my own profile information, so that the information is updated and adequate (e.g. changing profile picture and editing biography). | 6 |
| US205 | Edit Account Settings | High | As a Member, I want to edit my own account settings, so that I keep my account safe (e.g. changing password). | 6 |
| US206 | Create a Comment | Medium | As a Member, I want to comment an Answer or a Question, so that I can expose my opinion regarding the Question / Answer matter. | 5 |
| US207 | Mark a Question | Low | As a Member, I want to mark a question, so that I have easier access to it. | 1 |
| US208 | Notifications | Low | As a Member, I want to see my notifications, so that I'm always aware of updates on my questions. | 6 |
| US209 | Vote a Comment | Low | As a Member, I want to vote on a Comment, so that other Users know what I think about that Comment. | 3 |
| US210 | Vote an Answer | Low | As a Member, I want to vote on an Answer, so that other Users know what I think about that Answer. | 3 |
| US211 | Vote a Question | Low | As a Member, I want to vote on a Question, so that other Users know what I think about that Question. | 3 |
| US212 | Report a Message | Low | As a Member, I want to report a Message, so that the website remains without inadequate information. | 6 |

Table 4: Member's user stories.

2.4. Owner

| Identifier | Name | Priority | Description | Estimated Effort (in hours) |
|------------|------------------------------|----------|---|-----------------------------|
| US31 | Select correct Answer | Medium | As an Owner, I want to select a correct Answer to my own Question, so that other Users know what is the correct Answer without having to read all of the other answers. | 5 |
| US32 | Delete a Question | Medium | As an Owner, I want to delete my own Question, so that the website does not contain inadequate information. | 3 |
| US33 | Delete an Answer | Medium | As an Owner, I want to delete my own Answer, so that the related Question does not have inappropriate Answers. | 3 |
| US34 | Delete a Comment | Medium | As an Owner, I want to delete my own Comment, so that the related Question/Answer does not have inappropriate comments. | 3 |
| US35 | Edit a Question | Medium | As an Owner, I want to edit my own Questions, so that I keep them updated and adequate. | 2 |
| US36 | Edit an Answer | Medium | As an Owner, I want to edit my own Answers, so that I keep them updated and adequate. | 2 |
| US37 | Edit a Comment | Medium | As an Owner, I want to edit my own Comments, so that I keep them updated and adequate. | 2 |
| US38 | Edit a Question's Categories | Medium | As an Owner, I want to edit my Questions' Categories, so that I keep them updated and adequate. | 1 |

Table 5: Owner's user stories.

2.5. Moderator

| Identifier | Name | Priority | Description | Estimated Effort (in hours) |
|------------|------------------------------|----------|--|-----------------------------|
| US41 | Select correct Answer | Medium | As a Moderator, I want to be able to select a correct Answer to any Question, so that other Users know what is the correct Answer without having to read all of the other answers. | 3 |
| US42 | Delete a Question | Medium | As a Moderator, I want to delete any Question, so that the website does not contain inadequate information. | 3 |
| US43 | Delete an Answer | Medium | As a Moderator, I want to be able to delete any Answer, so that the related Question does not have inappropriate Answers. | 3 |
| US44 | Delete a Comment | Medium | As a Moderator, I want to be able to delete any Comment, in order to filter inappropriate comments from a discussion. | 3 |
| US45 | Edit a Question | Medium | As a Moderator, I want to be able to edit any Question, so that I keep them updated and adequate. | 2 |
| US46 | Edit an Answer | Medium | As a Moderator, I want to be able to edit any Answer, so that I keep them updated and adequate. | 2 |
| US47 | Edit a Comment | Medium | As a Moderator, I want to be able to edit any Comment, so that I keep them updated and adequate. | 2 |
| US48 | Edit a Question's Categories | Medium | As a Moderator, I want to edit the Categories of any Questions, so that I keep them updated and adequate. | 1 |

Table 5: Moderator's user stories.

A1. Annex: Supplementary requirements

A1.1. Business rules

| Identifier | Name | Description |
|------------|--------------------------|---|
| BR01 | Correct Answer selection | Only the author of the Question or a Moderator can mark an Answer as the correct one. |
| BR02 | Self voting restriction | Users can't vote their own messages. |
| BR03 | Reputation points | Reputation points will be calculated according to the formula: $QuestionPoints + AnswerPoints + \frac{CommentPoints}{2} - Reports * 10$. |
| BR04 | Number of categories | A question must have between one and five categories, <i>inclusive</i> . |
| BR05 | Moderator Badge | Having achieved 500 reputation points and been awarded the Trustworthy Badge, a Member becomes a Moderator. |
| BR06 | Moderator Permission | A Moderator can only interfere with messages under 10 points. |
| BR07 | Delete Answer | Whenever an Answer is deleted the respective Comments should be deleted as well. |
| BR08 | Delete Question | Whenever a Question is deleted the respective Answers (their comments) and the Question comments should be deleted as well. |
| BR09 | Banned Message | A message is automatically eliminated after being reported over $(5 + score^{\frac{1}{3}})$ times. |

A1.2. Technical requirements

| 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. |

| Identifier | Name | Description |
|------------|-------------|---|
| TR08 | Security | The system shall protect information from unauthorized 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). |

A1.3. Restrictions

| Identifier | Name | Description |
|------------|----------|---|
| C01 | Deadline | The system should be ready to be used by the end of May, in order to be properly assessed for delivery. |

Revision history

GROUP1763, 09/02/2018