A2: Actors and User stories

Within the scope of the LBAW course, we were proposed to develop a web application for collaborative Questions and Answers, thus *Answerly* was born.

This artifact specifies the actors, their descriptions and user stories. It also shows the project supplementary requirements.

1. Actors

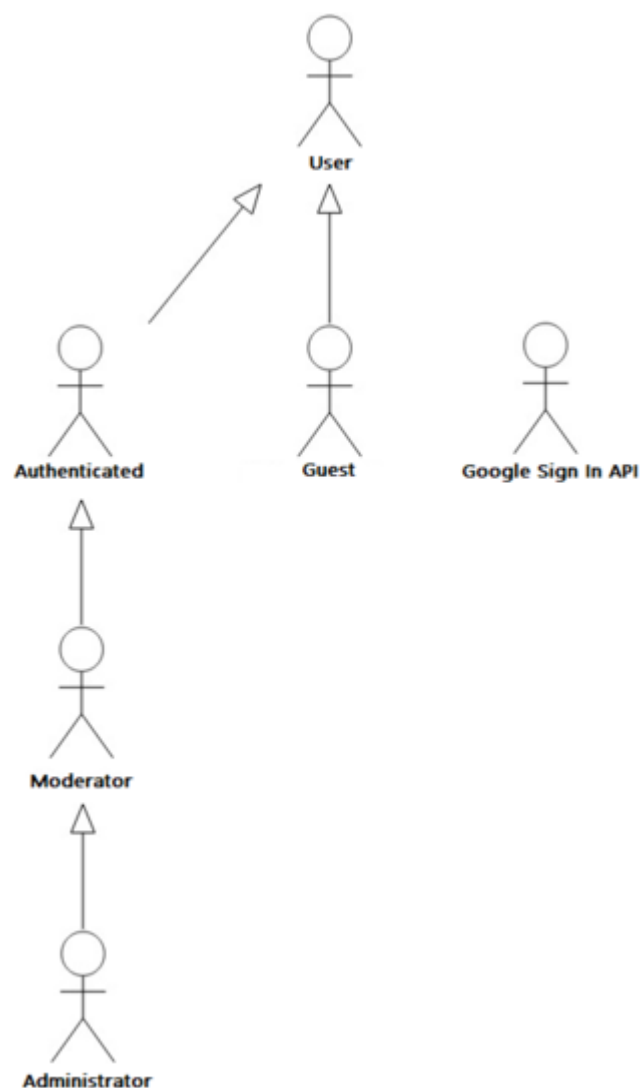For the **Answerly** system, the actors are represented in Figure 1 and their descriptions in Table 1.

Figure 1: Actors.

Identifier	Description	Examples
User	Generic user can access to public information so that can search, view pages, questions, answers and comments.	n/a
Guest	Unauthenticated user that can sign-up and sign-in in the system.	n/a

Identifier	Description	Examples
Authenticated	Authenticated user can post and follow questions, reply, vote (+1/-1) on any question/answer/comment or report them.	johndoe
Moderator	Authenticated user that have some extra management, supervisory, and moderation privileges like delete unhelpful questions or answers, move questions to the right labels, correct typos in labels or ban Authenticated users.	johndoe
Administrator	Authenticated user that have the same powers as Moderators but will also be able to promote Authenticated users to Moderators and demote Moderators to Authenticated users.	admin
Google Sign In API	External APIs that can be used to register or authenticate into the system.	n/a

Table 1: Actor's description

2. User Stories

The user stories for the **Answerly** system are presented in the next tables, divided by actor.

2.1. User

Identifier	Name	Priority	Description
US01	Home Page	high	As a User, I want to scroll through the Home Page, so that I can see recent questions with the most votes.
US02	Question's page	high	As a User, I want to check a question's page, so that I can see the question in full detail and every reply.
US03	Search with Keywords	high	As a User, I want to search for questios using specific Keywords, so that I can easily find what I'm looking for.
US04	Search with Labels	medium	As a User, I want to search for questios using specific Labels, so that I can easily find what I'm looking for.
US05	Search by Date	medium	As a User, I want to search for questions on a specific time frame, so that I can easily find what I'm looking for.
US06	Search with Users	low	As a User, I want to search for questios of specific users, so that I can easily find what I'm looking for.
US07	About us Page	low	As a User, I want to access an information page, so that I can learn more about the providers of the website.
US08	View Statistics	low	As a User, I want to see some website statistic's, so that I can easily check quick information about the website.

Table 2: User's user stories

2.2. Guest

Identifier	Name	Priority	Description
US09	Sign Up	high	As a Guest on the site, I want to be able to sign up to the system, so that I can ask questions or respond to them.
US10	Sign In	high	As a Guest on the site, I want to be able to authenticate myself into the system, so that I can access my already existing account.
US11	Sign Up w/ Google API	low	As a Guest on the site, I want to be able to register on the website through my Google Account, so that I can register in the Website effortlessly.
US12	Sign In w/ Google API	low	As a Guest on the site, I want to be able to authenticate through my Google Account, so that I can have an easier time logging in.

Table 3: Guest's user stories

2.3. Authenticated

Identifier	Name	Priority	Description
US13	Create Question	high	As an Authenticated user, I want to ask questions, so that I can use the Website for what it is intended for.
US14	Reply Question	high	As an Authenticated user, I want to reply to questions that I know the answer, so that I can give back to the community.
US15	Logout	high	As an Authenticated user, I want to be able to logout, so that I can close my account's session.
US16	Vote	medium	As an Authenticated user, I want to vote in questions or replies, so that I have a way to show others what content I found relevant.
US17	Set Labels on Question	medium	As an Authenticated user, I want to set labels when I create my questions or edit them after, so that other users can more easily find my content.
US18	Comment	medium	As an Authenticated user, I want to comment certain questions or replies, so that I can add a useful insight to the conversation.
US19	History	medium	As an Authenticated user, I want to check my website's history, so that I can keep track of my questions and replies in the Website.
US20	Report	medium	As an Authenticated user, I want to report questions, replies or comments that I find unfit for the Website, so that I can contribute to a more friendly environment.

Identifier	Name	Priority	Description
US21	Follow Labels	medium	As an Authenticated user, I want to follow labels, so that my feed shows more content relevant to me.
US22	Notifications	medium	As an Authenticated user, I want to receive notifications, so that I get notified when people reply my questions or questions that I followed.
US23	Select best answer	medium	As an Authenticated user, I want to select the best answer to my question, so that other users know what answer I found the most helpful.
US24	Follow Questions	low	As an Authenticated user, I want to follow questions, so that I get notified when new comments or replies are submmited on a specific question.
US25	Edit Profile Page	low	As an Authenticated user, I want to be able to write a brief description of myself on my accont and upload a photo, so that people get a sense of what my interests are.
US26	Edit my Content	low	As an Authenticated user, I want to be able to edit and delete my questions, answers and comments, so that I can fix some initial mistakes.
US27	Visit a Profile	low	As an Authenticated user, I want to visit other users' profile, so that I can learn more about them.
US28	Delete Account	low	As an Authenticated user, I want to be able to delete my account, so that my credentials are deleted from the website's database.

Table 4: Authenticated's user stories

2.4. Moderator

Identifier	Name	Priority	Description
US29	Add/Remove Labels	medium	As a Moderator, I want to add or remove a question's labels, so that I can better place them in the Website if it is necessary.
US30	Edit Publications	medium	As a Moderator, I want to be able to edit publications, so that the forum's content stays relevant, free of spam.
US31	View reported Users	medium	As a Moderator, I want to view all the reported User Posts, so that I can verify if they are offensive and act accordingly.

Identifier	Name	Priority	Description
US32	Questions, Replies and Comments's History	low	As a Moderator, I want to view a question/reply/comment's history, so that I can see the its content at a specific point in time (e.g. when it was reported).
US33	View nr. of reports	low	As a Moderator, I want to keep track a number of times a user was reported, so that I can give priority to certain users/posts.

Table 5: Moderator's user stories

2.5. Administrator

Identifier	Name	Priority	Description
US34	Manage Moderators	medium	As an Administrator, I want to promote an Authenticated user to Moderator or demote a Moderator to User, so that I have help moderating the Website.
US35	Filter Moderator Reports	medium	As an Administrator, I want to see which reports came directly from the Moderators, so that I can act accordingly (e.g. Ban Users).
US36	Ban Users	medium	As an Admnistrator, I want to ban users that have an uncivil conduct, so that the Website has a friendly environment.
US37	Remove Publications	medium	As an Administrator, I want to remove user's publications (questions, replies, comments), so that I can take down unhelpful interventions from other users.
US38	Manage Administrator	low	As an Administrator, I want to promote Moderators to Administrators or demote Administrators to Moderators, so that I can better manage the Website.

Table 6: Administrator's user stories

A1. Annex: Supplementary requirements

This annex contains all types of supplementary requirements for the project, such as business rules, technical requirements and other non-functional requirements.

A1.1 Business rules

Identifier	Name	Description
BR01	Voting	Users cannot vote on their own questions or answers
BR02	Delete content	Only Administrators can remove content such as questions, replies or comments from the website

Identifier	Name	Description
BR3	Authenticated user banishment	When a user is banished his content remains on the system, but he is now unable to log in and his questions, answers and comments show the information that the user was banished
BR04	Administrator and Moderator banishment	Administrators and Moderators cannot be banished
BR05	Answers date	The date of an answer must be greater than or equal to the date of the respective question
BR06	Comments date	The date of a comment must be greater than or equal to the date of the respective answer
BR07	Content removal and score	The deletion of previously voted questions and answers doesn't change the owner's score

A1.2 Technical requirements

Identifier	Name	Description
TR01	Availability	The system must be available 100 percent of the time
TR02	Accessibility	The system must be accessible regardless the Web browser used
TR03	Usability	The system should be intuitive, visually appealing and simple to use
TR04	Performance	The system should send responses in times shorter than 2s to keep users interested
TR05	Web application	The system should be implemented as a Web application with dynamic pages, using the following technologies: HTML5, CSS3, PHP and JavaScript
TR06	Portability	The server-side system should be compatible for various platforms, such as Linux, Windows and Mac OS
TR07	Database	It should be used the PostgreSQL 9.4 database management system to store data
TR08	Security	The system shall protect users profile information and stored passwords from unauthorized accesses by providing authentication and verification systems
TR09	Robustness	The system should be prepared to handle runtime errors and exceptions privileging the continuation of the system's execution
TR010	Scalability	The system must be prepared to deal with a large number of users and their actions without overloading the server

Identifier	Name	Description
TR11	Ethics	The system must respect the ethical principles in software development (for examlpe, user's profile private data should not be shared with other users or with the public in general)

The most crucial technical requirements, thus the ones which must be accomplished at all costs, are TR05, TR08 and TR10. A Web application is a simple, easy and quick access system with wide reach, so it seems appropriate to develop one on the circumstances of this project. Nowadays, web security and privacy politics are two topics largely discussed and with an increasing importance. Users must feel safe when using our system, knowing that it follows the new General Data Protection Regulation (GDPR – May 2018). As the focus of the website is to promote user interaction it is expected that the system can support a big amount of activity while not delaying user experience.

A1.3 Restrictions

Identifier	Name	Description
C01	Deadline	The system should be finished and ready to be used before the end of the second semester, since it is a college project

Revision history

1. First submission (24/02/2020).
2. Minor changes in User Stories; added User Story to promote Admins; changed priorities in Moderator and Admin's User Stories; switched Ethics to Scalability as a crucial technical requirement (03/03/2020).
3. Specified the API as Google Sign In API in the actors' diagram and added user stories regarding search and select best answer features (10/03/2020).

GROUP2064, 10/03/2020

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