



# Universidad Nacional de Colombia

Workshop 1

Requirements, User Stories and Story Mapping

Software Engineering II

Teacher: Carlos Andres Sierra Virguez

David Santiago Velasquez Gomez

Stiven Aguirre Granada

Juan Felipe Hernandez Ochoa

Sergio Alejandro Reita Serrano

David Andres Camelo Suarez

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# **Project: StartHub**

## **Requirements Documentation**

### **Functional requirements**

#### **1. User management**

- 1.1. The system must allow new users to register.
- 1.2. The system must allow registered users to log in.
- 1.3. The user must be able to edit their profile, including:
  - Personal information.
  - Partner startups.
- 1.4. The system must allow password recovery via email.

#### **2. Startups management**

- 2.1. Users will be able to create, edit, view, and delete their own startups.
- 2.2. Each startup must include the following information:
  - Startup name.
  - Project description.
  - Contact details (email, website, social media).
  - Categories.
- 2.3. Any user can publicly view information about a startup.
- 2.4. Users will be able to comment and vote (upvote/downvote) on startup posts.
- 2.5. The system must allow positive and negative votes to be counted and displayed for each startup.
- 2.6. Users with administrator permissions may delete startups that violate the site's rules.

#### **3. Social interaction**

- 3.1. Registered users will be able to comment on startup posts.
- 3.2. Comments may be edited or deleted by their author.
- 3.3. Comments may be deleted by users with administrator permissions if they violate the site's rules.

#### **4. Navigation and search**

- 4.1. The system must offer a search engine to locate startups by:
  - Name.
  - Category.
  - Keywords.
- 4.2. The system must allow search results to be filtered and sorted according to criteria (by relevance, date, votes, etc.).
- 4.3. The system should have thematic subforums that group startups according to their category or sector (technology, health, education, energy, etc.).

- 4.4. Users will be able to navigate between subforums and view the startups associated with each one.

## Functional requirements

### 1. Performance

- 1.1. The system must allow a server response time of less than 5 seconds for main operations (search, startup display).

### 2. Safety

- 2.1. Passwords must be stored in encrypted form.
- 2.2. Requests to the backend must be made via HTTPS.
- 2.3. Only authenticated users may perform creation, editing, or deletion operations.
- 2.4. The system must validate inputs to prevent SQL injections and XSS attacks.

### 3. Usability

- 3.1. The interface should be intuitive and responsive, adapting to different devices.
- 3.2. Forms should include clear error messages for the user.

### 4. Maintainability

- 4.1. The code must be modularized and follow good development practices.
- 4.2. The API must be documented.
- 4.3. Basic unit tests should be included for the main backend functions.

### 5. Scalability

- 5.1. The database must be designed to support growth in the number of startups and users without significant loss of performance

## User Stories

### 1. User management

#### 1. User registration

##### User Story:

- **As :** A New user.
- **I need to:** Register on the platform by creating a personal account.
- **So that I can :** Access the application functionalities.

##### Acceptance criteria:

- **Given that :** The user is not registered on the platform and has to do it in order to use the application.
- **When :** The user access the application and because the user doesn't have an account he enters directly in the registration form and then enters the required personal information.
- **Then :** The application creates a new user account, sends a confirmation message for the registration and then allows the user to log in with his new credentials.

## 2. Log in

### User Story:

- **As :** A registered user of StartHub.
- **I need to:** Log in to my account using my credentials.
- **So that I can :** Access my profile, manage my startups, and interact with other users within the platform.

### Acceptance criteria:

- **Given that :** The user already has a registered account.
- **When :** The user opens the application and then enters their valid email and password in the login form and submits the request.
- **Then :** The system verify the credentials, grant access to the user's account, and redirect them to the homepage.

## 3. Edit profile

### User Story:

- **As :** A user of StartHub.
- **I need to:** Edit my profile information, including my personal details and associated startups.
- **So that I can :** Keep my profile updated and ensure that other users can view accurate information about me and my startups.

### Acceptance criteria:

- **Given that :** The user is logged in and then enters their profile page.
- **When :** The user updates their personal information or modifies the list of startups linked to their profile and saves the changes by clicking on the related button.
- **Then :** The system update the user's profile data in the database and display a confirmation message indicating that the changes were successfully saved.

## 4. Password recovery

### User Story:

- **As :** A user of StartHub.
- **I need to:** Recover access to my account through a secure password reset process.
- **So that I can :** Regain access to my personal account.

### Acceptance criteria:

- **Given that :** The user has forgotten their password and cannot log in to the platform.
- **When :** The user clicks on the "Forgot password" link in the log in process, enters their registered email address, and requests a password reset.
- **Then :** The system send an email containing a secure link to reset the password, allowing the user to create a new one and regain access to their account.

## 2. Startups Management

### 5. Create startup

#### User Story:

- **As :** A user of StartHub.
- **I need to:** Create a new startup profile.
- **So that I can :** Show my startup to the community, attract potential partners, and receive feedback from other users.

#### Acceptance criteria:

- **Given that :** The user enters the Startups Management page and wants to register a new startup.
- **When :** The user accesses the “Create Startup” section and fills out the form with the required details (startup name, project description, contact information, categories, etc.).
- **Then :** The system creates a new startup entry, stores the information in the database, and displays a confirmation message.

### 6. Edit startup

#### User Story:

- **As :** A user of StartHub and owner of a startup.
- **I need to:** Edit the information of my existing startup.
- **So that I can :** Keep my startup details updated and ensure that visitors see accurate and current information about my project.

#### Acceptance criteria:

- **Given that :** The user enters the Startups Management page and has at least one startup created under their account.
- **When :** The user accesses the “Edit Startup” option, modifies the startup’s information (such as name, description, contact details, or categories), and saves the changes.
- **Then :** The system update the corresponding startup data in the database and displays a confirmation message.

### 7. Delete startup

#### User Story:

- **As :** A user of StartHub and owner of a startup.
- **I need to:** Delete one of my startups from the platform.
- **So that I can :** Remove outdated or irrelevant projects and keep my startup portfolio organized.

#### Acceptance criteria:

- **Given that :** The user enters the Startups Management page and has at least one startup created under their account.

- **When :** The user selects a specific startup, chooses the “Delete” option and confirms the deletion.
- **Then :** The system removes the startup from the database and displays a confirmation message of the change.

## 8. View startups

### User Story:

- **As :** A user of StartHub.
- **I need to:** View detailed information about a specific startup.
- **So that I can :** Learn more about the project, its purpose, and its contact details, and decide whether to interact with or support it.

### Acceptance criteria:

- **Given that :** The user is browsing the Startups page and wants to see details of a particular startup.
- **When :** The user selects a startup from the list or search results.
- **Then :** The system display the startup full profile, including its name, description, contact information, category, and votes or comments.

## 3. Social Interaction

## 9. Vote on startups

### User Story:

- **As :** A user of StartHub.
- **I need to:** Vote positively or negatively on a startup post.
- **So that I can :** Express my opinion about the quality or potential of a startup and help highlight the most valuable projects in the community.

### Acceptance criteria:

- **Given that :** The user is browsing the Startups page and wants to vote for a specific startup.
- **When :** The user clicks the upvote or downvote button for that startup.
- **Then :** The system records the user’s vote, update the total vote count displayed on the startup’s page, and prevent multiple votes from the same user on the same startup.

## 10. Comment on startups

### User Story:

- **As :** A user of StartHub.
- **I need to:** Post comments on startup profiles.
- **So that I can :** Share feedback, ask questions, or start discussions with other users and startup

owners.

**Acceptance criteria:**

- **Given that :** The user is browsing the Startups page and wants to comment on a specific startup.
- **When :** The user writes a comment in the comment section of a specific startup and submits it.
- **Then :** The system save the comment, display it under the corresponding startup, and show the author's name and timestamp.

## 11. Moderate comments

**User Story:**

- **As :** An administrator of the StartHub platform.
- **I need to:** Delete comments that violate the site's rules or contain inappropriate content.
- **So that I can :** Maintain a respectful and professional environment within the StartHub community.

**Acceptance criteria:**

- **Given that :** The administrator is reviewing comments posted by users on different startups.
- **When :** The administrator identifies a comment that violates community guidelines and selects the "Delete" option.
- **Then :** The system removes the comment from public view and displays a message to the author with the reasons why it got deleted.

## 4. Navigation and Search

### 12. Search for startups

**User Story:**

- **As :** A user of StartHub.
- **I need to:** Search for startups using specific criteria such as name, category, or keywords.
- **So that I can :** Quickly find startups that match my interests or potential collaboration areas.

**Acceptance criteria:**

- **Given that :** The user is browsing the Startups page and wants to explore or locate specific startups.
- **When :** The user enters search terms (name, category, or keywords) in the search bar and submits the query.
- **Then :** The system display a list of startups that match the search criteria, showing relevant details such as name, description, and votes.

### 13. Filter startups

#### User Story:

- **As :** A user of StartHub.
- **I need to:** Filter and sort the search results of startups based on different criteria such as relevance, date, or votes.
- **So that I can :** Easily find the most relevant or high-quality startups according to my interests and preferences.

#### Acceptance criteria:

- **Given that :** The user has performed a search and is viewing a list of startup results.
- **When :** The user selects a filter (like category or date) or a sorting option (by most votes or most recent).
- **Then :** The system update and display the list of startups according to the selected filters and sorting criteria.

### 14. Browse subforums

#### User Story:

- **As :** A user of StartHub.
- **I need to:** Navigate through thematic subforums that group startups by category or sector.
- **So that I can :** Explore startups within specific areas of interest and related to particular industries.

#### Acceptance criteria:

- **Given that :** The user is browsing the Startups page and wants to explore a particular subforum.
- **When :** The user selects a subforum (such as “Technology” or “Health”).
- **Then :** The system must display only all startups associated with that category, allowing the user to view their details, vote, or comment as permitted.

## User Story Mapping

Link del ussr-story-mapping: [User-Story-Mapping](#)

# User story mapping

