

SENG365 ASSIGNMENT 2

PETITION SITE USER STORIES

SENG365

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Overview

This document summarises the user stories that should be implemented in the course's two assignments. Assignment 1 implements a web server (or API) to provide the 'back-end' for these stories. Assignment 2 implements a web client to provide the 'front-end' for these stories.

Any of these stories may be used to assess Assignment 2. It is likely that only some of these stories will be assessed, but these won't be declared before the assessment takes place.

You are strongly advised to successfully implement the first Story for each category of stories **before** you move on to implement other stories in the categories.

A copy of the source code for the reference server will be released so that you have a standard server against which to create your client application. Regardless of when the source code is released, you can still test your client against the deployed reference server available at <https://seng365.csse.canterbury.ac.nz/api/v1> (although your final code **must** assume that there is a server running at <http://localhost:4941/api/v1>).

Finally, 18 stories may appear to be a lot of work. Remember that much of the computational work is already done for you by the reference server. Assignment 2 is focused on requesting and retrieving information from the server, and then presenting that information effectively to the user.

Definitions

The following terms are used in the stories:

- **Casual user:** any person using the application to view petitions, whether logged in or not.
- **Registered user:** a person that has registered an account into the system and is currently 'logged in'.
- **Owner** (of a petition): the owner of the petition (who uploads it to the site), required for all petitions.
- **Supporter** (of a petition): a supporter of a petition (a registered user can support any petition they are not an owner of).
- **Image:** an image (JPEG, PNG, or GIF) used to illustrate the petition listed – or to give context to it – and/or to illustrate a user profile.
- **Date:** means time and date; and should be displayed to the user in NZ time.
- **Support:** any supporting of a petition by another registered user. It must be for a specific tier, and may additionally include a textual message.

Assessed stories for the assignment

Searching Petitions

U1 Search

As a casual user, I'd like to be able to see only those petitions whose information (title or description) contains some characters, word(s), or a phrase, so that I can find the ones that are of most interest to me.

AC.1 The user can type a word or phrase into an appropriate search box to search for specific petitions.

AC.2 Only, and all, petitions whose **title or description** contains the provided characters, word(s), or phrase are shown (possibly after using pagination).

AC.3 The results should be shown as described in Story 2 with the possibility of being filtered as described in Story 3.

U2 List of Petitions

As a casual user, I'd like to be able to see a list of the existing petitions.

AC.1 Basic information about each petition should be visible, composed of:

- Hero image,
- title,
- creation date,
- category,
- owner (first and last name and hero image),
- supporting cost (of the minimum tier).

AC.2 All petitions should be shown (possibly after using pagination).

U3 Filter

As a casual user, I'd like to be able to filter petitions shown to those of that match a set of categories, or a cost less than a given amount to support, or any combination of these.

AC.1 The user can select **one or more** options (e.g., category Wildlife or Education and supporting cost \leq \$15) to filter by.

AC.2 The user can use no filter, filter by category, filter by supporting cost, or both.

AC.3 Only petitions that match at least one of the categories should be shown (possibly after using pagination).

AC.4 Only petitions that have a supporting cost less than or equal to should be shown (possibly after using pagination).

U4 Sort

As a casual user, I'd like to be able to sort the petitions.

AC.1 By default, petitions must be ordered according to when they were released, from oldest to newest (This is the default provided by the server `CREATED_ASC`)

AC.2 The user can choose to sort the petitions in one of the following ways:

- Ascending alphabetically
- Descending alphabetically
- Ascending by supporting cost
- Descending by supporting cost
- Chronologically by creation date (from the first to be created to the last)
- Reverse Chronologically by creation date (from the last to be created to the first)

U5 Pagination

As a casual user, I'd like to see the petitions shown in batches. You may choose a page size between 5-10 (inclusive), or let the user select their own size from this range. We will discuss 10 as an example in ACs.

AC.1 If there are more than 10 petitions in the list, then the user should only see the first 10 to begin with. I.e. petitions 1-10.

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- AC.2 The user can choose to view the next batch of 10 (if there are additional petitions), i.e. petitions 11-20. In this way the user should be able to look through all the petitions 10 at a time.
- AC.3 The user can choose to view the previous batch of 10, where the user has progressed beyond the first 10 petitions. For example if the user is viewing petitions 21-30, they can 'page back' to petitions 11-20.
- AC.4 The user can choose to progress to the first page (i.e. petitions 1-10) if they are not already on that page.
- AC.5 The user can choose to progress to the last page if they are not already there
- AC.6 The user should be able to see the index of the current page, where the index starts at 1. petitions 1-10 are on page 1, 11-20 are on page 2, etc...
- AC.7 The user should be able to see when there are no more petitions. There should be an indication that the last page has been reached, and they should not be able to travel to any pages beyond this.
- AC.8 The last page may contain less than 10 petitions. For example, if there are 25 petitions, the pages should contain 1-10, 11-20, 21-25 respectively.

U6 Combination

As a casual user, I'd like to be able to combine searching, filtering, and sorting.

- AC.1 The user should be able to select multiple options, and this should result in all of them being applied. For example, if the user searches for "Green", filters by "Wildlife" category and supporting cost \leq \$0, and sorts by "ascending alphabetically". Then only petitions with "Green" in the title or description **and** category "wildlife" **and** a supporting cost of \$0 should be displayed sorted A-Z by title.

Viewing a Petition

U7 Viewing a Petition

As a casual user, I'd like to be able to see further details about a petition.

- AC.1 There should be an easy way to reach these details from the list of petitions described in Story 1 (such as a link from the list of petitions, this information **will not count** if it is only displayed in the list).
- AC.2 All information about the petitions should be visible, composed of:
- Creation date
 - Hero image
 - Title
 - Description
 - Owner: profile image (or a default one if none exists) and first and last name.
 - Number of supporters
 - Total money raised
 - List of available support tiers, each one with its title, description and cost
 - List of supporters, each one with the title of the tier supported, message (if provided), timestamp of when it occurred, the supporter's profile picture (or a default one if none exists) and first and last name.
- AC.3 The available support tiers can be in any order, and need not take the specific form of a list.
- AC.4 The list of supporters must be ordered by most recent to oldest (this is the default of the server), this may be done for a list of support tiers or ordering them within individual lists for each support tier. The whole list doesn't need to be initially shown, but if not, there must be some way to easily see the list without leaving the page (e.g., a modal popup, or a hide/show button).

U8 Similar Petitions

As a casual user, I'd like to be able to see a list of similar petitions (if any exist).

- AC.1 A list of similar petitions should also be displayed in the petition details page. A similar petition is any other petition with the same category as the currently viewed petition, or has the same owner.
- AC.2 Similar petitions should be displayed with the same information as Story 2.

Registering and Logging in

U9 Register

As a casual user, I'd like to register as a user in the application so that I can access features that require me to be authenticated.

- AC.1 Any person who is **not** already logged in can register by providing a first name, last name, email address, and password. Optionally they can also provide a profile picture (JPEG, PNG, or GIF).
- AC.2 The email address must not already be in use by another user.
- AC.3 The email address must be syntactically valid (must contain an @ and a top-level domain e.g., "a@b.c").
- AC.4 The password must be at least 6 characters in length.
- AC.5 The password must not be displayed in plaintext (i.e., it should be obscured by representing each character as a dot or star). However, users **may** click a button to toggle the ability to view the password field.
- AC.6 Upon successfully registering, the user is immediately logged in.

U10 Log in

As a registered user, I'd like to be able to log in to the application so that I can complete tasks that require authentication.

- AC.1 A user must be able to log in to the application using their email address and password. Any subsequent action they take (e.g., creating a new petition) will be related to their account.
- AC.2 A user must not be able to log in to an account without providing both the correct email address and password of that account.
- AC.3 A logged-in user cannot log in again, without first logging out.

U11 Log out

As a registered user, I'd like to be able to log out to secure my account or to log in to another account.

- AC.1 A logged-in user may log out, which causes them to no longer be authenticated.
- AC.2 A user that is not currently logged in cannot log out.

Managing Petitions

U12 Create

As a registered user, I'd like to be able to create a listing for my petition.

- AC.1 The user must first be logged in.
- AC.2 The user must provide valid information to create the petition (with required attributes bolded)
 - **Title** – Must be unique.
 - **Description**
 - **CategoryId** – Must reference a category accepted by the server.
 - **supportTiers** – There must be between 1-3 (inclusive) support tiers provided.
 - **Image** – Must only accept png, jpeg, gif
- AC.3 The petition must then be included in the list of auctions and works with searching, filtering, sorting, and pagination.

U13 Edit

As the owner of a petition, I'd like to be able to modify my petition's details to correct any error or provide updates.

- AC.1 Only the owner of the petition can edit it.
- AC.2 Basic information (title, description and categoryId) may be changed at any time
- AC.3 Support tiers:
 - May only be added, if the petition currently has less than 3 support tiers.

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- May only be updated, if the specified support tier has no supporters.
 - May only be deleted, if the specified support tier has no supporters and the petition currently has more than 1 support tier.

U14 Delete

As the owner of a petition, I'd like to be able to delete my petition.

AC.1 Only the owner of a petition can delete it.

AC.2 The owner must be prompted to confirm the action.

AC.3 A petition **can not** be deleted once a supporter has supported at any tier.

U15 My petitions

As a user, I'd like to be able to see all the petitions I am a owner of or that I support.

AC.1 A registered user must have some way of viewing only and all the petitions they are 'involved' with, either as a owner or a supporter.

AC.2 Each petition must be shown with the same information that can be seen from the list of petitions in Story 2 (there are no requirements for searching, filtering, sorting, or pagination).

AC.3 There should be an easy way to view the details of any of these petitions (Story 7).

Supporting a Petition

U16 Supporting

As a registered user, I'd like to support a petition at one or more support tiers optionally leaving a message.

AC.1 Should the user be interested in supporting a petition the user should be able to support at a given tier from the petition details page.

AC.2 Only an authenticated user may support a petition. Casual users should be prompted to log in or register.

AC.3 Users can support a petition without leaving a message.

AC.4 An owner can not support their own petition.

AC.5 A user cannot change or delete their support.

AC.6 A user may support a petition at any number of its tiers, however a user can only support at each unique tier once.

Managing User Profile

U17 View

As a registered user, I'd like to be able to view my own profile information.

AC.1 An authenticated user can view their own information, composed of:

- First name
- Last name
- Email
- Profile picture (or a default one, if none exists)

AC.2 No one else can view another user's information (except when it is included as part of a petition where they are the owner or a supporter, in either case only the user's first and last name and profile picture are displayed).

U18 Edit

As a registered user, I'd like to be able to edit my own profile information.

AC.1 An authenticated user can edit their own information. This can be any of:

- Profile picture

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- First name
 - Last name
 - Email
 - Password

AC.2 If a profile picture exists it can be removed.

AC.3 The email address must not already be in use by another user.

AC.4 The email address must be syntactically valid (See Story 9).

AC.5 If the password is being updated, the existing password must be provided and correct.

AC.6 The password must be at least 6 characters.

AC.7 The password must not be displayed in plain text (See Story 9).

AC.8 A user can not modify another user's information.