

User Story Backlog

SENG365 2021: Web Computing Architectures

Overview

This document summarises the user stories that should be implemented in during the course two assignments. Assignment 1 implements a web server 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 it won't be declared which 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 reference server available at <http://csse-s365docker1.canterbury.ac.nz:4001/api/v1/> (although your final code should assume that there is a server running at <http://localhost:4941/api/v1/>).

Finally, 20 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.

Assessed stories for the assignment

Definitions

The following terms are used in the stories:

- **Casual user**: any person using the application to view events, whether logged in or not.
- **Registered user**: a person that has registered an account into the system.
- **Organizer** (of an event): the person in charge of organizing the event. Required in all events, either in-person or online and by default, filled with the user creating the event.
- **Attendee** (of an event): a person who has been demonstrated interested in participating in an event and has been accepted to do so (for instance, after paying the fee, if applicable).
- **Attendance-status** (of a person in regards to an event): the status of the user's request to attend an event. The status can take one of three values: 'Accepted', 'Pending', and 'Rejected'. For events requiring attendance control, the attendance-status is 'Pending', changing to 'Accepted' or 'Rejected' as the event organizer accepts the user's request to attend the event or not. For events set up as not requiring attendance control, the initial status is 'Accepted'.
- **Image**: an image (JPEG, PNG, or GIF) used to illustrate the ideas behind an event - or to give context to it - and/or to illustrate the user profile.
- **Date**: means time and date, and should be displayed to the user in NZ time.

Searching events

Story		Acceptance criteria
1	Search As a casual user, I'd like to be able	The user can type a word or phrase into an appropriate search box to search for specific events.

	to see only those events whose title contains some characters, words, or a phrase, so that I can find the ones that are of most interest to me.	Only, and all, events whose title contains the provided word or phrase are shown (possibly after using pagination).
		The results should be shown as described in story 2 with the possibility of being filtered as described in story 3.
2	List of events As a casual user, I'd like to be able to see a list of the existing events yet to be happening.	Basic information about each event should be visible, composed of: <input type="checkbox"/> Hero image; <input type="checkbox"/> Date and time; <input type="checkbox"/> Title; <input type="checkbox"/> Category; <input type="checkbox"/> Host (name and hero image); <input type="checkbox"/> Number of attendees.
		All events should be shown (possibly after using pagination).
3	Filter As a casual user, I'd like to be able to filter events shown to those of that match a set of categories.	The user can select one or more option (eg, category <i>film</i>) of the category filter to filter by. The user can use no filter or filter by category. Only, and all, events in the selected category(ies) should be shown (possibly after using pagination).
4	Sort As a casual user, I'd like to be able to sort the events.	By default, events must be ordered according to their date, from the first to be happening to the latest. The user can choose to sort them one of the following ways: <input type="checkbox"/> Ascending by number of attendees ; <input type="checkbox"/> Descending by number of attendees ; <input type="checkbox"/> Chronologically by date , from the latest to the first to be happening; <input type="checkbox"/> Chronologically by date , from the first to the latest to be happening.
5	Pagination As a casual user, I'd like to see the events shown in batches.	If there are more than 10 events in the list, then the user should only see the first 10 to begin with, ie events 1-10. The user can choose to view the next batch of 10 (if there are additional events), ie events 11-20. In this way, the user should be able to look through all the events 10 at a time. The user can choose to view the previous batch of 10, where the user has progressed beyond the first 10 events. For example, if the user is viewing events 21-30, they can 'page back' to events 11-20. The user can choose to progress to the first page (ie events 1-10), if they are not already on that page. The user can choose to progress to the last page if they are not already there. The user should be able to see the index of the current page, where the index starts at 1. Events 1-10 are on page 1, 11-20 on page 2, etc. The user should be able to see when there are no more events - there should be an indication that the last page has been reached. The last batch may contain less than 10 events. For example, if there are

		25 petitions, the pages should contain petitions 1-10, 11-20, and 21-25.
6	Combination As a casual user, I'd like to be able to combine searching, filtering, and sorting.	The user should be able to select multiple options, and this should result in them all being applied. For example, if the user searches for "project management", filters by study-group category, and sorts by number of attendees, then only events with "project management" in the title and with study-group in the category should be displayed, sorted by their number of attendees.

Viewing an event

Story		Acceptance criteria
7	Event details As a casual user, I'd like to be able to see further details about an event.	There should be an easy way to reach these details from the list of events described in story 1.
		All information about the event should be visible, composed of: <ul style="list-style-type: none"> <input type="checkbox"/> Date and time; <input type="checkbox"/> Image; <input type="checkbox"/> Title; <input type="checkbox"/> Organizer: profile image (or a default, if none exists), first name and last name; <input type="checkbox"/> Categories; <input type="checkbox"/> Description; <input type="checkbox"/> Capacity; <input type="checkbox"/> Number of attendees; <input type="checkbox"/> List of attendees, each one with their first and last names, and profile picture displayed; <input type="checkbox"/> Event URL; <input type="checkbox"/> Venue; <input type="checkbox"/> Fee (if any, or free if none).
		The list of attendees should include their profile picture (or a default, if none exists), first name, last name and role in the event (ie, organizer or attendee). It 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).
		The number of attendees should be the number of 'Accepted' attendees.
8	Similar events As a casual user, I'd like to be able to see a list of similar events (if any).	A list of similar events should also be displayed in the event detail page. A similar event is any other event that shares at least one category with the currently viewed event.

Registering and logging in

Story		Acceptance criteria
9	Register As a casual user, I'd like to register as a user for the application so that I can access features that require me to be authenticated.	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).
		The email address must not already be used by another user.
		The email address must be syntactically valid.

		The password must be at least 8 characters in length.
		The password must not be displayed in plaintext, i.e. it should be obscured, e.g. by representing each character as a dot (or star).
		Upon successfully registering, the user should be immediately logged in.
10	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.	A user must be able to log in the application using the email address and current password. Any subsequent action they take (eg posting a new event) will be related to their account.
		A user must not be able to log in to an account without providing both the email address and password of that account.
		A logged-in user cannot log in again, without first logging out.
11	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.	A logged-in user may log out, which causes them to no longer be authenticated.
		A user that is not currently logged in cannot log out.

Managing events

Story		Acceptance criteria
12	Create As a registered user, I'd like to be able to create an event?	The user must first be logged in.
		The user must provide all of this information to create the event: <ul style="list-style-type: none"> <input type="checkbox"/> Title; <input type="checkbox"/> Category (one or more of the existing categories); <input type="checkbox"/> Date; (must be in the future) <input type="checkbox"/> Image (JPEG, PNG, or GIF); <input type="checkbox"/> Description; <input type="checkbox"/> Maximum capacity (number of attendees) <i>(if applicable)</i>; <input type="checkbox"/> If an online or an in-person event; <input type="checkbox"/> URL of the event <i>(in case of online events)</i>; <input type="checkbox"/> Venue in case of face-to-face events; <input type="checkbox"/> Whether or not it will be needed to control attendance status; <input type="checkbox"/> Fee <i>(if any)</i>.
		Online events must have URL, but not venue. On the other hand, in-person events must have a venue, and they may or may not have a URL.
		When an event is created, the user is added as the event's organizer.
		The event is included in Story 2 outcome, when part of its title is used as a search key.
13	Control attendance As an organizer of an event, I'd like to be able to accept or not attend requests.	Only the organizer can control the event's attendance.
		Attendance requests are listed by order of interest.
		In case the request is accepted, their attendance status is updated to 'Accepted'; the number of attendees is increased by one and the number of available seats (if applicable), decreased by one.

		In case the request is not accepted, their attendance status for the event updated to 'Rejected'.
14	Edit As one of the organizers of an event, I'd like to be able to modify the event's details, to correct any errors and provide updates.	Only the organizer of an event can edit it.
		Any of the information provided when creating an event can be edited, including the event's date so long it is not changed to be in the past.
		Once an event has happened (its date is in the past), the event cannot be edited.
15	Delete As the host of an event, I'd like to be able to delete it.	An event can only be deleted by its organizer.
		The host must be prompted to confirm the operation.
		Once an event has happened (its date is in the past), the event cannot be deleted.
16	My events As a user, I'd like to be able to see all the events that I am the host of.	A registered user must have some way of viewing only and all the events they are involved with, either as an attendee or as organizer.
		Each event must be shown with the same information that can be seen from the list of events in story 1 . (There are no requirements, however, for searching, sorting, filtering, or pagination.)
		There should be an easy way to view the details of an event (<i>story 7</i>).

Attending events

Story		Acceptance criteria
17	Attendance request As a registered user, I'd like to request to attend an event.	Should the user be interested in attending the event – and seats are still available (if applicable) – the user should be able to register their interest in doing so.
		Only an authenticated user may request to attend an event. Casual users should be prompted to register or log in.
		Users shouldn't be able to request attendance for events already in their full capacity (ie, events in which the number of attendees is equal to its maximum capacity).
		If the event does not require attendance control, the user's attendance status should be set to 'Accepted' and the number of attendees shall increase by one and the number of available seats (if applicable) decreased by one.
		In case the event requires attendance control, the user attendance status will be set to 'Pending'. Both the number of attendees and the number of available seats (if applicable) won't change until the attendance request is accepted by the event organizer/co-organizer.
		Users should not be able to register their attendance for event that they are already attending.
18	Attendance cancelation As an attendee of the event, I'd like to be	A user cannot request to attend an event if the event has already happened, ie the event date is in the past.
		Should the user already be registered to attend the event, the user should be able to cancel their attendance. In doing so, their seat will then become available (if applicable), the number of attendees will be increased by one and the user will be removed from the list of the event's attendees.

	able to update my attendance from going to not going.	A user cannot change his attendance status for an event if it has already happened (ie the date is in the past).
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Managing user profile

Story		Acceptance criteria
19	View As a registered user, I'd like to be able to view my own profile information.	An authenticated user can view their own information, composed of: <ul style="list-style-type: none"> <input type="checkbox"/> First name; <input type="checkbox"/> Last name; <input type="checkbox"/> Email; <input type="checkbox"/> Profile picture (or a default, if none exists);
		No one else can view another user's information (except when it is included as part of an event they host or attend).
20	Edit As a registered user, I'd like to be able to edit my own profile information.	An authenticated user can edit their own information. This can be any of: <ul style="list-style-type: none"> <input type="checkbox"/> First name; <input type="checkbox"/> Last name; <input type="checkbox"/> Email; <input type="checkbox"/> Profile picture (or a default, if none exists); <input type="checkbox"/> Password (they must provide their current password).
		The profile picture can be removed.
		The email address must not already be used by another user.
		The email address must be syntactically valid.
		The password must not be empty.
		The password must not be displayed in plaintext, i.e. it should be obscured, e.g. by representing each character as a dot.
		No one should be able to modify another user's information.