

Assignment 1

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Requirements

Must

1. As a client, I want to fill in a form, so that I can provide information to book an event.

Acceptance criteria:

- *(Pass) Form is filled in correctly*
- *(Fail) not all the mandatory fields are filled in.*
- *(Fail) Incorrect formatting of an email address is filled in.*

2. As a client, I want to specify my personal information on the website when booking, so that I can be contacted.

Acceptance criteria:

- *(Pass) Information form is filled in correctly*
- *(Fail) One of the mandatory fields isn't filled in*
- *(Fail) Incorrect formatting of an email address is filled in.*

3. As a client, I want to fill in a single booking through the website through a form, so that I can hire crew members for my events.

Acceptance criteria:

- *(Pass) Form is filled in correctly*
- *(Fail) Not all mandatory fields are filled in*
- *(Fail) Incorrect formatting of an email address is filled in.*

4. As a client, I want to enter details about my bookings, such as the event name, type, date, location, and duration (hours), my provided contact information, and booking type, so that the form has enough information for crewmembers to enroll in.

Acceptance criteria:

- *(Pass) All the information is filled in properly and submitted*
- *(Fail) One of the mandatory fields isn't filled in*

5. As a crew member, I want to log into the website using either email or username and password, so that it is more convenient for me in case I forget my username or find it too burdensome to type in my entire email address.

Acceptance criteria:

- *(Pass) Log in via username or email with the correct password*
 - *(Fail) Log-in user with an invalid email/username/password, or a combination of these.*
 - *(Fail) Log-in user with an empty field for password or username/email.*
6. As a crew member, I want to see a dashboard, so that I can see in one view what is important to me.
- a. As a crew member, I want to have an overview in my dashboard of all past events that I have been enrolled in, so that I can keep track of these events.
 - b. As a crew member, I want to have an overview in my dashboard of my currently enrolled events, so that I can know what's coming next.
 - c. As a crew member, I want to see an overview in my dashboard of all announcements that were made, so that I can read them and be kept informed.

Acceptance criteria:

- *(Pass) Admin sends announcement to crew members*
 - *(Pass) Crew members view announcement in dashboard*
 - *(Pass) Crew members view all currently enrolled events on the dashboard*
 - *(Fail) Crewmembers sends announcements to other crew members*
 - *(Pass) Crewmembers view all of their respective past events on the dashboard*
 - *(Fail) Crewmembers view other crewmember's events on the dashboard*
7. As a crew member, I want to enroll bookings in the calendar, so that I can have a spot in the crew and work at the event.

Acceptance criteria:

- *(Pass) Crew member enrolls into a booking with open spots*
 - *(Fail) Crew member tries to enroll into a full event.*
 - *(Fail) Multiple crew members try to enroll into an event with fewer spots than attempting crew members left*
8. As an admin, I want to log into the website using my email address or username, so that I am the only one who can access the website on my secured and personal account.

Acceptance criteria:

- *(Pass) Email or username used to log in into admin account with correct password*
 - *(Fail) invalid email or username used*
 - *(Fail) incorrect password used*
9. As an admin, I want to create new crew member accounts, so that new employees can log in and use the system.

Acceptance criteria:

- *(Pass) Fill in form to add user account correctly, click submit*

- (Fail) Don't fill in a required mandatory field in the form
- (Fail) Email field input is not a valid email-address
- (Fail) A field is not filled in with the correct data type

Should

1. As a client, I want to download an Excel template, so that I can fill in **multiple bookings** at once within Excel.

Acceptance criteria:

- (Pass) Click download button, download file

2. As a client, I want to submit an Excel file (.xlsx or .csv), when submitting multiple bookings so that I do not have to fill in multiple bookings manually.

Acceptance criteria:

- (Fail) Upload a file that is not .csv or .xlsx
- (Pass) Upload a file that is a correctly filled-in version of the template file
- (Fail) Upload a file in which the mandatory fields are not filled in for one or more rows in which fields otherwise contain some content
- (Pass) Upload a .csv or .xlsx file in which all mandatory fields are filled in on all non-empty lines
- (Fail) Used an incorrect data type in one of the fields, for example entered a string into a field asking for an integer

3. As a crew member, I want to receive an email notification whenever one of my bookings is canceled, or I am unassigned from a booking, so that I am aware of changes in my work schedule.

Acceptance criteria:

- (Pass) Test with booking the member is enrolled in canceled by admin
- (Fail) Test with canceling booking the member is not enrolled in

4. As an admin, I want to see which crew members are working at which events and how many hours they have worked there on a separate tab so that I can monitor everyone's work.

Acceptance criteria:

- (Pass) Admin can see the amount of hours shown correctly

5. As an admin, I want to see statistics on all bookings in the system on a dashboard, so that I can have a clear overview over the statistics.

Acceptance criteria:

- (Pass) Information in statistics is accurate and useful

6. As an admin, I want to assign or modify roles & permissions of crew members, so that I can update them in case of promotions/ demotions or changes in roles.

Acceptance criteria:

- (Pass) Test with demoting crew member
- (Pass) Test with promoting crew member

7. As an admin, I want to modify booking information, so that I can update booking information with current information when necessary.

Acceptance criteria:

- (Pass) Test with modifying booking information

8. As an admin, I want to unassign or assign crew members from or to bookings, so that I can change who is working on the bookings.

Acceptance criteria:

- (Pass) Test with assigning a crew member to a booking
- (Pass) Test with unassigning a crew member from a booking
- (Fail) Test with assigning a crew member twice to the same booking
- (Fail) Test with assigning a crew member to a booking they are not authorized to see/work on

9. As an admin, I want to post announcements visible to all crew members, so that everyone can view my announcements.

Acceptance criteria:

- (Pass) Test with posting an announcement

Could

1. As a client, I want to receive confirmation when submitting a booking, so that I know it has indeed been processed.

Acceptance criteria:

- (Pass) Test when client submits a booking

2. As a client, I want Shotmaniacs to be notified about my booking through an automatic email sent to hi@shotmaniacs.com, so that the people at the company will be informed of my booking.

Acceptance criteria:

- (Pass) Test when Client creates a booking
- (Pass) Test when Client updates a booking

3. As a crew member, I want to see a calendar that presents all upcoming events, so that I can easily select which event I want to work at.

Acceptance criteria:

- *(Pass) Crew member clicks on calendar button to view all events*
- *(Pass) Crew member changes filter for viewing events*

4. As a crew member, I want to have different tabs to view the calendar and the dashboard, so that I have a clear separation between what I am enrolled in and events I can enroll in.

Acceptance criteria:

- *(Pass) Crew member clicks on calendar button to view the calendar*
- *(Pass) Crew member clicks on dashboard button to view the dashboard*

5. As a crew member, I want the calendar event to expand when I click on it so that I can see detailed information on it in an interface that is not overloaded.

Acceptance criteria:

- *(Pass) Signed in crew member clicks on an event for more details*
- *(Fail) event that has been deleted gets clicked on*

6. As a crew member, I want to access booking details from the calendar, for easy access.

Acceptance criteria:

- *(Pass) Signed in crew member clicks on an event for more details*
- *(Fail) event that has been deleted gets clicked on*

7. As a crew member, I want to see fully booked events in gray so that I can easily differentiate them from available bookings.

Acceptance criteria:

- *(Pass) test with fully booked event*
- *(Fail) test with event that has an open spot*

8. As a crew member, I want to see all bookings, whether their status is fully booked or not, to have an overview of what other crew members are working on.

Acceptance criteria:

- *(Pass) Test with fully booked events*
- *(Pass) Test with event that have open spots*

9. As a crew member, I want to know the status of a booking (To-do / In progress / Review / Confirmed), so that I know what work needs to be done to order.

Acceptance criteria:

- *(Pass) Test with a To-do? In progress/ Review/ Confirmed booking*
- *(Fail) Test with a non-existing booking*

10. As a user, I want to receive feedback based on my login, so that I know if I entered the right password.

Acceptance criteria:

- *(Pass) input incorrect information*
 - *(Fail) input correct information*
11. As a new user, I want to receive feedback based on my password, so that I can adjust my password accordingly.

Acceptance criteria:

- *(Pass) Input a strong password having all the requirements*
- *(Pass) Input a weak password*

Will Not

1. As an admin, I want to have the statistics updated live, so that I don't need to refresh the page.

Acceptance criteria:

- *(Pass) Test with statistics changing every 5 seconds*
- *(Fail) Test with statistics changing more frequently than 5 seconds*

Non-Functional Requirements

1. The password must contain at least 8 characters, so that it may not be brute-forced easily.

Acceptance criteria:

- *(Fail) Create a password with 1-7 characters*
- *(Pass) Create a password with more than 8 characters*

2. The password must contain lowercase and capital letters, symbols and at least a digit, so that it may not be cracked by a basic dictionary attack.

Acceptance criteria:

- *(Fail) Create a password with only lowercase letters*
- *(Fail) Create a password with only capital letters*
- *(Fail) Create a password with only digits*
- *(Pass) Create a password with a combination of lowercase and capital letters, symbols, and digits*

3. The URL request should be sanitized, so that the user input cannot be used for SQL injections.

Acceptance criteria:

- *(Pass) Test with SQL injection in URL*
- *(Fail) Able to bypass the log-in step*

4. The password should be salted, peppered and hashed before stored in the database, so that it can not be easily extracted from the database.

Acceptance criteria:

- *(Pass) Test with extracting the password*
- *(Fail) Able to easily revert the hashed password to the original string*

5. The back-end should only use prepared statements or stored procedures, to prevent SQLI.

- *(Pass) Dynamic SQL generation is avoided and all queries are parametrized*
- *(Fail) User inputs are directly concatenated with SQL queries*

6. The back-end should be immune to LFI and RFI (Local and Remote File Inclusion), so that the attacker may not execute malicious code on the server

- *(Pass) Back-end does not allow inclusion of scripts, nor files, based on user input*
- *(Fail) Input from user is directly used to build file paths*

Report

This report is a written summary of the design choices we had to make to create a mock-up.

Tools & Frameworks

For the design of the prototype, we use the conventional tools which have been introduced in different modules. The different tools are as follows.

What?	Used what for?	Why no alternatives?
IntelliJ	Useful software environment, with safe refactoring and other web application features.	Introduced already, no alternative necessary.
HTML5, CSS, JS	General web design	For the scope of our project, no other alternatives are necessary or permitted.

Bootstrap 5

Layout and formatting of the front-end.

The bootstrap library offers general purpose CSS. It is used widely on a lot of websites, so it is useful to learn about.

Sprint Reflection

During the sprint reviews, we also noted some important things. When working on the final result, we will consider the following features:

- Statistics are very efficient for the admin page;
- Role functionality can be very additive;
- Showing the number of spots in total/available to fill in with crew members for an event, which was inspired from a different project group.

This could be very interesting to implement for the upcoming sprints.

Mock-ups

In the next section, you will read about the specific prototypes we have made in IntelliJ or in some other visual way. The main points are highlighted and are there to illustrate our main idea about how the end-result might look like. Please note that the color palette is inconsistent and therefore incorrect. The color palette has unfortunately only been disclosed with us after we have already done significant work. Furthermore, some functionality is missing within the mock-up. This does not mean that it will not be included in the final result, they are left out for the sake of simplicity. Some of the missing functionality include a filter.

Client Page

Client Information

First name:

Last name:

Telephone:

Email:

Single Booking

Event name:

Event type:

Event date: dd/mm/yyyy ☐

Event duration:

Submit

Multiple Bookings

Please download the following template: [\(.xlsx\)](#) [\(.csv\)](#)

Please upload the file: No file chosen

Single Bookings

Event name:

Event type:

Event date: dd/mm/yyyy ☐

Event duration:

Multiple Bookings

This page will be the landing page of the website, i.e. if you search the page on the internet, this will be the first page you open. Therefore, this page is vital when it comes to brand identity and intuition.

The main point of this page is to allow the client to read more about shotmaniacs itself. So a small introduction has been made. During the final release, this might change into a longer introduction and more pictures, but for now this is a placeholder to allow for an interesting and clean entrance to the form, which is the main functionality.

The form consists of two containers, which have been highlighted with a subtle background. In the first container, you can see that the first row consists of only client information. This has to be filled out only once and can then be used to create bookings. For the booking, you can have 1 or many bookings for each client, so this form allows you to fill in a form to enter a single booking, or you can choose to download a template, which allows for systematic entering of bookings.

As you might have noticed, the second container is a subset of the first container, but slightly different formatted. Technically, it has the same functionality, but it has been visualized to later delete part of it. We are unsure yet if we choose the top or bottom one. The content is the same, just the how is different. The first one is more cluttered, but maybe less intuitive, while the second offers a tab that selects one of the two – preventing accidental/malicious multiple inputs.

The navigation bar is actually interesting when it comes to the design choice. It uses bootstrap to make the navigation bar flexible, when changing in size. So making the page smaller has an effect on how the

General Booking Contact

Booking Shotmaniacs®

Thank you for reaching our site. We are an event company responsible for crew management related issues. Please fill out the form below to let us get in touch with you about your event.

How it works

Below you can fill in the client. You must select one of the two pages to what you desire.

Client Information

First name:

Last name:

Telephone:

Email:

Single Booking

Event name:

Event type:

Event date: dd/mm/yyyy ☐

Event duration:

Multiple Bookings

Please download the following template: [\(.xlsx\)](#) [\(.csv\)](#)

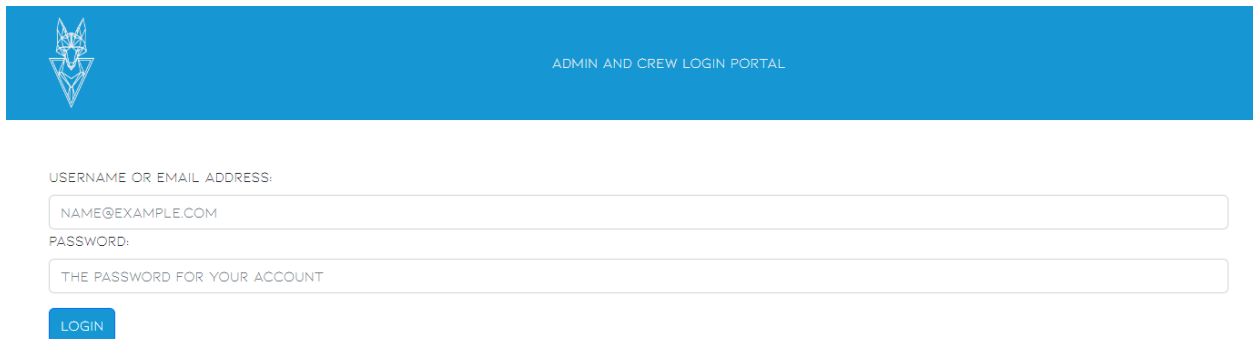
Please upload the file: No file chosen

Submit

navigation bar looks. It moves it closer together, but does not distort the bar to the point that it is unreadable. The same applies to the forms. If the container becomes too small, then the *multiple bookings* will appear below *single booking*.

You can notice as well that the buttons with tabs have different coloring when active and not active. This has been done with very little JS.

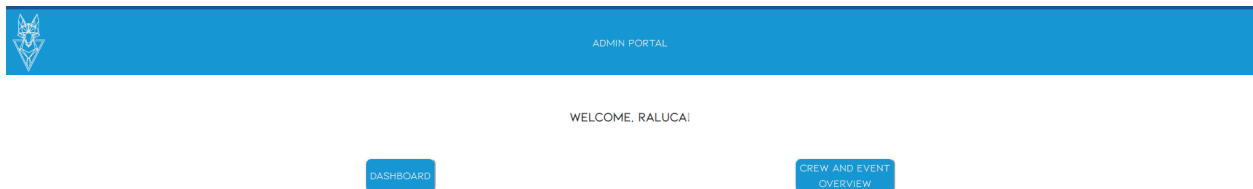
Login Page for Admin and Crew Members



The screenshot shows a login page with a blue header. On the left is a white logo of a stylized animal head. On the right, the text 'ADMIN AND CREW LOGIN PORTAL' is displayed. Below the header, there are two input fields. The first is labeled 'USERNAME OR EMAIL ADDRESS:' and contains the text 'NAME@EXAMPLE.COM'. The second is labeled 'PASSWORD:' and contains the text 'THE PASSWORD FOR YOUR ACCOUNT'. Below these fields is a blue button with the text 'LOGIN' in white.

This page allows the employees of Shotmaniacs to login in their accounts, no matter what their role in the company is. The users have the possibility to login using their usernames or work-email addresses and depending on their role in the company, after pressing the ‘Login’ button will be redirected to the Admin main page or Crew Member main page, respectively. To this page we have added the color palette as it was an easy to fix detail.

Admin Main Page



The screenshot shows the Admin Main Page. It has a blue header with the same white logo on the left and the text 'ADMIN PORTAL' on the right. Below the header, the text 'WELCOME, RALUCA!' is centered. At the bottom, there are two blue buttons. The left button is labeled 'DASHBOARD' and the right button is labeled 'CREW AND EVENT OVERVIEW'.

After logging in, an admin arrives at this main page. If the admin wants to see a dashboard which shows statistics about all events that have a crew assigned and also about those which do not have yet, then he presses the ‘Dashboard’ button. Besides this, there is the ‘Crew and Events Overview’ button which presents an insight into the bookings each crew member has chosen.

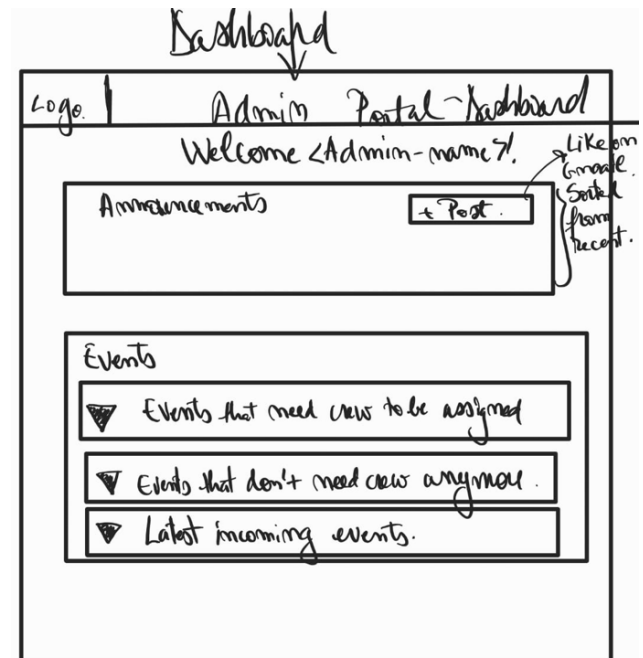
Admin Dashboard

This page appears when the admin presses on the 'Dashboard' button.

The admin dashboard allows the admin to post announcements and also to view the past ones that have been published by him or other admins. The events section includes three subsections :

1. Events that need crew members to be assigned
2. Events that have already crew members assigned
3. Latest incoming events

Each subsection is made out of a drop down menu that expands once the bar is pressed. The detailed information will include the name of each booking, its location, the date when it takes place and the type of the booking. In case of the second subsection, it will also contain a list of the crew members already assigned.



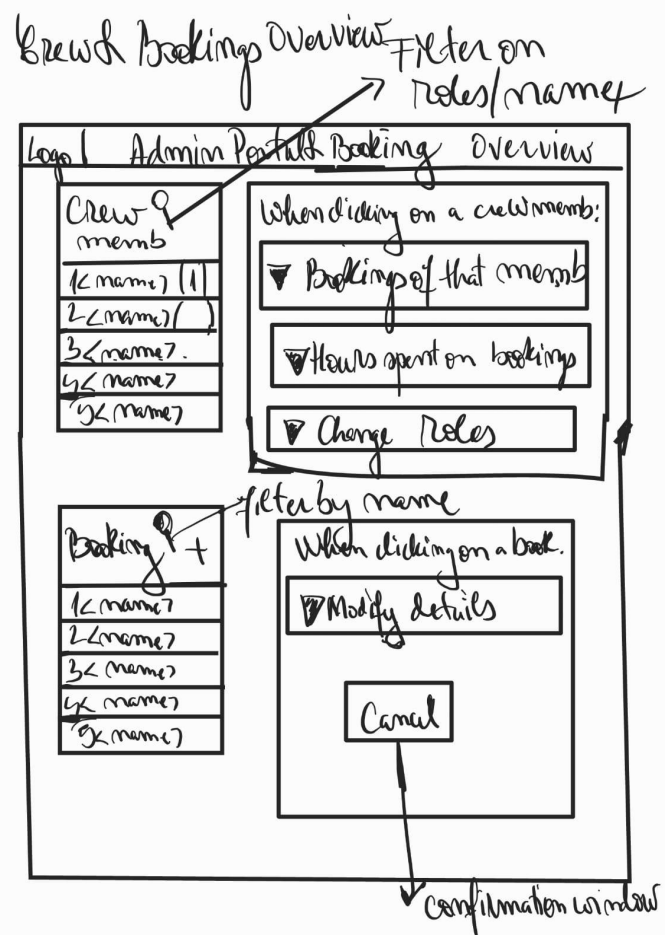
Admin's Crew & Bookings Overview

This page appears when the admin presses on the 'Crew & Bookings Overview' button on the admin main page.

In this page two subsections can be found. The first one shows a list of all crew members which can be filtered on different criteria (name, role, etc). Next to the name of the crew member, the number of events in which that specific crew member works in the next week / month is shown (to be decided with the stakeholder which interval will be chosen). When clicking on a crew member's name, on the right side the admin will be presented a drop down menu that contains three subsections:

1. Bookings in which the member participates in;
2. The total number of hour that the member spent on each booking;
3. Changing the roles of that member;

The second subsection of this page refers to bookings which can also be filtered on different criteria. When the admin clicks on the booking, on the right side of the page the admin will be



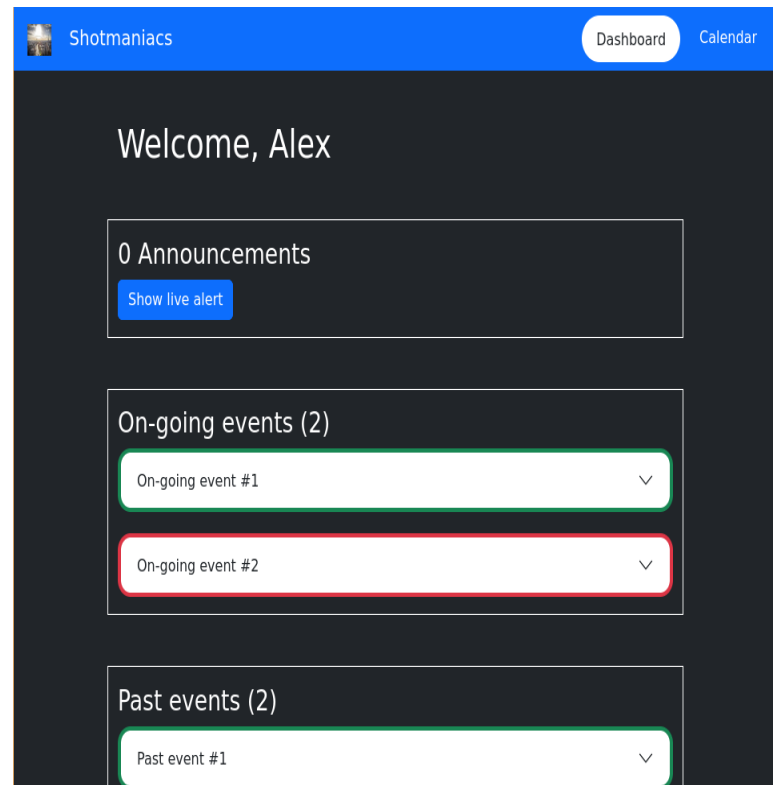
presented a drop down menu that allows him to modify manually the details of the event and a button with which he can cancel the booking.

Dashboard for Crew Members

This page appears as the first page when a crew member successfully logs-in. Two buttons in the up-right corner define the two pages available to a crew member. A nice welcoming message appears under the navigation bar with the crew member's name.

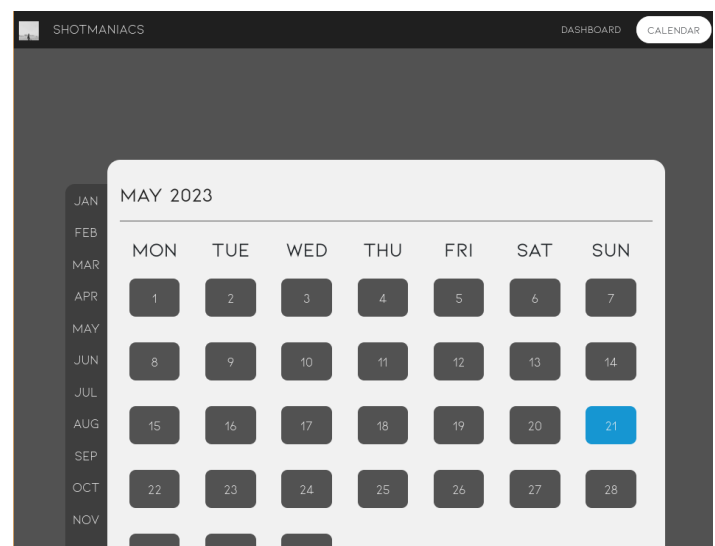
The page is divided in 3 sections:

- Announcements, which presents the announcements that an admin wanted to share with everybody.
- On-going events that have a counter next to it. This accordion consists of boxes that, once pressed, show details regarding the events. Borders' colors define if other members can still enroll or not.
- Past events that have a counter next to it. This accordion consists of boxes that, once events, show details regarding the past events. Further functionalities are yet to be implemented, such as a 'See more' button in the 'Past events' section, as well as a filter.



Calendar for Crew Members

This page has the most advanced functionalities. It presents an overview over months. Once loaded up, the page selects the current day and highlights it in blue (already implemented), as well as the month (not yet implemented). Once a day is pressed, a box on the right will show every event that the crew member has during that day (to-do). Moreover, each event will appear as a dot in each day's box in the overview, with either green or red. The green event indicates that one can enroll in it. As no event is planned at the moment, no red and green colors are on this picture.



Both crewmember pages have been adjusted to adhere to Shotmaniacs' colorpalette.

Here is the complete prototype of our website. As it is apparent, not all user stories are yet possible and no database has been created. With most of the pages already designed, these next few weeks will be aimed at the following:

- Finishing touches on the design, like the color pallet
- Implementing the admin page, as it is now a sketch.
- Backend, like setting up the database and making it interactable through the website.