Piia Laine

Final Report

Scorecard Website

Contents

[1. Expectations and Goals 2](#_Toc41527442)

[2. Successes 2](#_Toc41527443)

[3. Problems 2](#_Toc41527444)

[4. Research 3](#_Toc41527445)

[5. Final Website 3](#_Toc41527446)

[6. Summary 3](#_Toc41527447)

# Expectations and Goals

At first the project goal was to conceptualize a fully working website that allowed its users to place a bet for fun and the bets would be divided into two types.

First, I had to use ER and database diagrams along with UI concepts to present the concept and structure of the website. The goal wasn’t to actually create a fully-functioning website, but rather to show how it would work, how it would be built.

Then, after that, a project mate and me were tasked with creating a version of this website. We divided up the tasks in a way that my project mate was responsible for the project managements and a small part of the coding, while I was to write a majority of the code and set up the database and its connection.

# Successes

The project overall was a success. I managed to get it all done within the time given.

First off, the concept phase was done without much problem, mostly because SQL is a type of database that is very easy to understand. After returning my first version of the diagrams, the teacher gave me some tips on how to update it and I did that.

The part that was a bit harder was the actual creation of the website. I still think that it turned out great. I had to make some compromises with the admin view, especially in the visual department, but functionally it worked out great in the end.

# Problems

Now, there were some problems that I encountered in this project. Luckily, none of them were road-blocking, just small hiccups along the way.

The first problem was that my project mate left our team. At first, it brought up some questions that concerned me a bit, but that was quickly cleared up and I had a clear vision again on how to finish up the website and the project itself.

The second problem was a coding problem. I had basically no coding problem at all, I just had natural occurring points, where I had to research a lot. However, right before the end, I made a small oversight, where I requested an answer from the database as a string, even though it returned as a json object. This meant I should have requested it as an array. It took me a long while, but when I noticed that error, I fixed it and then all played out smooth again.

So, overall, the project was done without much trouble.

# Research

Whenever I make a new website, I like to do a lot of research and learn something new. At first, I thought I would just make this website in AngularJS again, like I did my previous projects, but then I researched online and I came across “Svelte”.

Svelte is a compiler that is very easy to set up with NodeJS and it can be learned incredibly fast. Along with an uprising popularity and good template folder structure, it looked interesting to use. So, I went with it.

For the backend I used PHP with PHP API endpoints. This meant I had to do some research for that too.

I watched many courses online and tried out a few examples with Svelte and felt confident to use it, along with my PHP backend.

# Final Website

When it came to the website, I first intentionally created a simpler UI, that’s still good-looking, because I knew I wanted to put more effort into the functionality. I had set myself a goal of really understanding all the code I write, of understanding everything that goes on in the website.

When I started out, things went fine, I created some example pages in HTML to present the desired UI, then I went into all the backend coding.

The website consists of the frontpage that loads all components from Svelte and by clicking on the navbar you can navigate between different views of the website. You can see the registration and login form, as well as the two betting lists.

The user can register and then he gets directed to the appropriate backend page. This page, has a text that tells the user to log in with the information he just entered and a link to get back to the page. If the user is an admin, a session starts and the user is straightly redirected to the admin view. This admin view is blocking all access from users who are not in the specific admin session. As soon as the user logs out of it, the session gets destroyed and makes it impossible to access the page anymore, until he puts in his login information again.

In the admin view, the admin can create betting events of the two categories, ranking and league. This info gets saved to the database and is then dynamically loaded onto the frontend Svelte page.

# Summary

Even with some small problems here and there, the project went generally well and I achieved in creating a website to the best of my ability with as little outside help as possible. It was important to me that I understand every way of how the website works and I achieved that. In the end, the website, even though it’s small, it fulfills all functions I set out to do.