

Final Project Documentation

Project Overview

Title

final_project, date of submission: 04.06.2025, The Fruiting Forest.

Introduction

This is an online store for selling different kinds of trees, fruit trees and berry bushes. As well as planks and seeds for certain types.

The store is meant for those interested in mass producing fruit/berries for self provisions or further sales.

Project Requirements

Features List

- Button Clicking
- Page Navigation
- Authentication
- Forms
- Sign-in, sign-out, sign-up
- Purchasing
- Contacting
- Order storing

Technology Stack

- Html
- Css (modular)
- JavaScript
- Git
- React
- Netlify
- LocalHost
- Console Log
- Firebase
- Cloudinary
- Chatgpt
- W3School
- Figma
- Clip Studio Paint
- TinyPng

Design and Planning (Figma)

The image displays six Figma wireframe prototypes for a website, arranged in a 3x2 grid. Each prototype is set against a background of a sunlit forest path. The prototypes represent different pages and sections of the website:

- Desktop - 1:** Home page featuring a central dark overlay with the text "Welcome to The Fruiting Forest!" and "Check out the links above!", along with a "Button Text" button.
- Desktop - 2:** A grid of three tree-related cards, each with a title ("Name of Tree"), a small image, and three lines of descriptive text.
- Desktop - 3:** A product listing page showing a large image of a path, a title ("Name of Product"), a dropdown menu for "Products Type" (set to "Trees"), a "Products Sort" section with four items, a "Products" section with three items, and a pagination bar.
- Desktop - 4:** A shopping cart page showing a list of items with quantity sliders, a total price of "Total Price: 0.00", and a "To Checkout" button.
- Desktop - 5:** A user profile page titled "My Profile" with tabs for "Orders" and "Sign Out". It includes fields for "First Name", "Last Name", "Street", "Phone Number", "Address", "Postal Code", "Email notification status", and "Member Since".
- Desktop - 6:** An order history page titled "Your Order History" with tabs for "My Profile", "Orders", and "Sign Out". It lists three orders with columns for "Order Date", "Order Number", "Products", and "Price".

Each prototype includes a footer bar with the website's name and copyright information: "Images are AI generated by ChatGPT" and "© 2025 'The Fruiting Forest' by Martinus Aamot Dahl. All rights reserved."

Development Process

Challenges

My biggest challenge was probably trying to make the form component very dynamically. I wanted to easily create forms with simply an array of objects with certain information. This would also validate any form that would be needed. But due to styling issues and time, I had to withhold from using it on my last two forms.

Otherwise, firebase (firestore and auth), was what I felt most unsure about at the time, but feel more secure with now after some more use.

Testing

How You Tested

I mostly stuck to the browser console and logged the different code to figure out where and what was the problem. If I got stuck or at any point didn't understand the code in the console, I'd either google or ask chatGpt to explain the error in detail so I could understand it better for what it was.

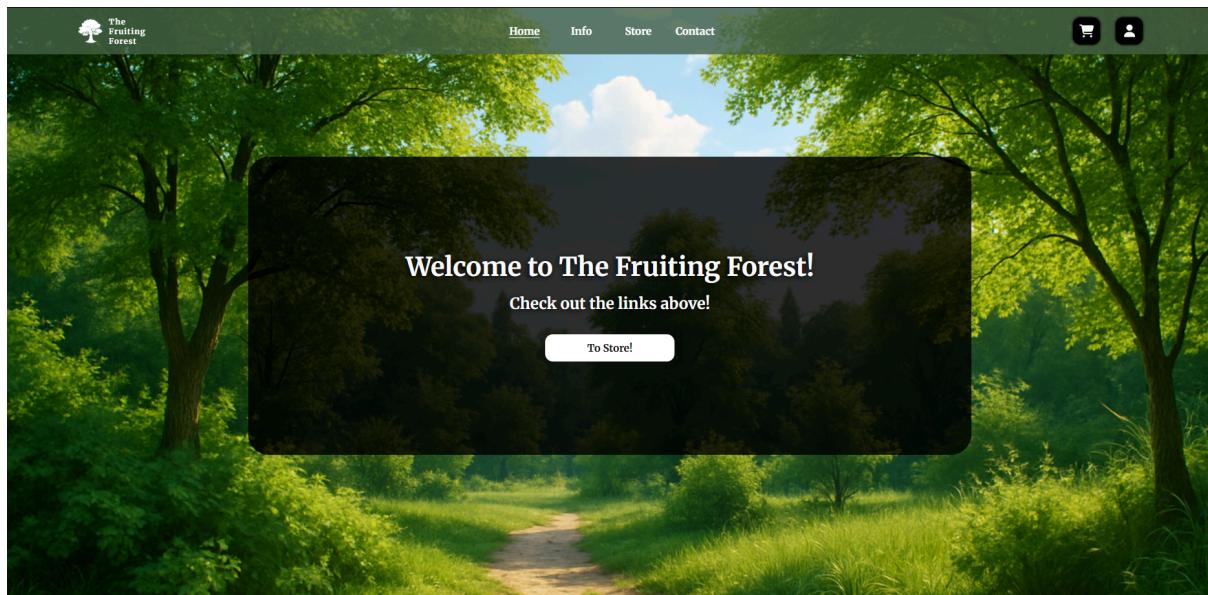
I always had a live preview of the local host on the second monitor for easy followup. Because of earlier issues, I uploaded it to netlify early, to check if I had issues with any images like I had previously.

Bug Fixes

- I added a scrollToTop function to the app, so that whenever the page changed, it would scroll them back to top. This was working fine until i was testing the responsiveness in the productStore. As the products are further down on the page, upon changing the product, the page would scroll to the top due to the routing. So I had to make an if statement to exclude this.
- Very often I ran into issues where certain code from contexts hadn't loaded in in time. I now realize I should have made some kind of loading feature maybe? But I would instead use if statements, or add the "?" behind certain variables to check if they exist, so they wouldn't cause an error, and load in when ready.
- I can't really think of any bugs specifically. If I had any issues, it was mostly due to something wrong in the code, which was then displayed in the browser through Reacts debug system, or the console log. If I weren't able to decode it from there, I would go to google or chatGpt for help.

Final Product

Screenshots



A screenshot of a category page for 'Trees' on the website. The top navigation bar shows 'Home', 'Info' (which is underlined), 'Store', and 'Contact', with a shopping cart and user icons. Below the navigation, there are three main categories: 'Trees', 'Fruit Trees', and 'Berry Bushes'. The 'Trees' section features a large image of a cherry blossom tree with pink flowers and falling petals against a blue sky. To the right of the image is the title 'Cherry Blossom Tree' and three paragraphs of placeholder text ('Lorem ipsum dolor sit amet consectetur.' repeated three times). A 'More info!' button is located at the bottom right of this section. The 'Magic Tree' section below it has a similar structure, featuring a blue-toned image of a magical tree with glowing elements and placeholder text.

Cherry Blossom Tree

[More Info](#)**Product Type:** **Product Sort:****Products:**

10 Products Left In Store

402.89 USD

 1 [Add to Cart](#) 

Cart

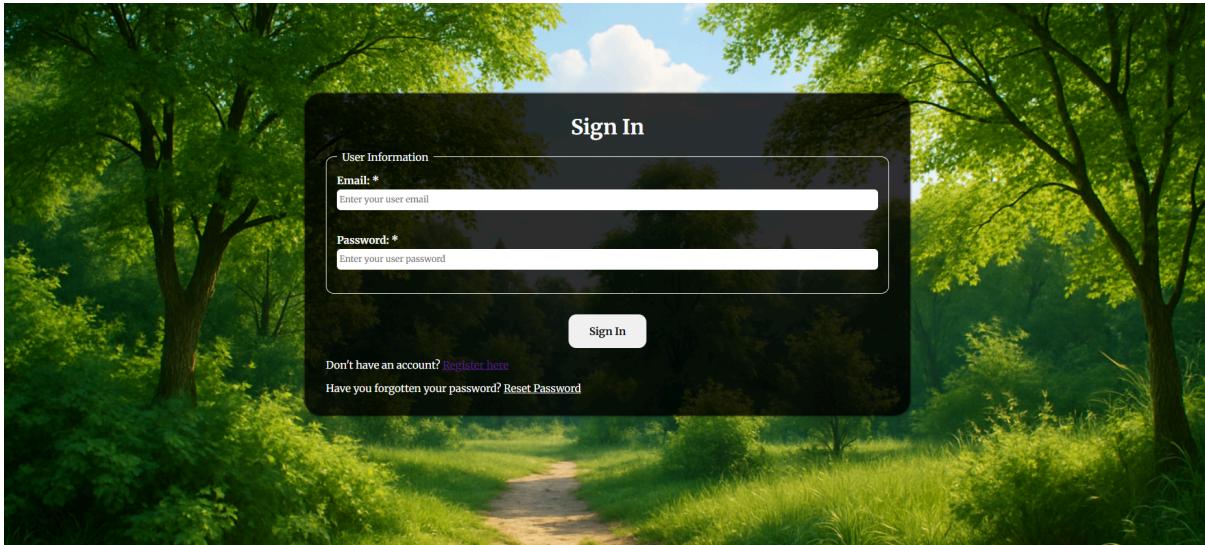
	Cherry Blossom Tree	Price each: 39.99 USD	Price total: 39.99 USD	 1  
	Oak Tree - Planks	Price each: 4.99 USD	Price total: 24.95 USD	 5  
	Magic Tree - Seed	Price each: 4999 USD	Price total: 9998 USD	 2  

Total Price: 164.92 USD

[To Checkout](#)

Contact

Contact Information**First Name: *****Last Name: *****Email: *****Order Number:****Subject: *****Message: ***[Send Message](#)



A dark-themed profile page for a user named Martinus. It includes fields for first name, last name, address, postal code, email, phone number, and member status, all filled with placeholder data. A large circular profile picture placeholder is present.

A dark-themed page showing a history of four orders. Each order row contains details like date, order number, products, and price. The table has a green header and alternating row colors.

How to Use

General

Upon opening the website you are met with a simple welcome page. From here you can navigate directly to the shop, or use any of the navbar links at the top to navigate to home, product info, store, contact, cart or the sign-in/profile page.

Whether you end up at the sign-in or profile page depends on whether or not there is a user currently logged in. To access your profile, you need to firstly go to the sign-in page, where you can either sign-up if you don't have an account, or ask for a password reset if you have forgotten your password.

Profile

By signing up, you will be automatically redirected to your profile tab where you can see your profile's account information, as well as your order history. You can also edit most of the data. The sign out button is also located at the top of the profile page.

Product Info

The product info tab is used to read up on more detailed information about the different products. The first tab gives you information about the trees, next tab about fruit trees, and the last, berry bushes. From there you can click on a more info button for further information

Store

The store page consists of 3 main categories for product selection:

1. The type of product ("Trees", "Fruit Trees" and "Berry Bushes")
2. The sort of product ("Cherry Blossom", "Apple Tree", "Blueberry Bush")
3. The product itself ("Tree", "Planks", "Seeds")

You can see which products are in store, and how many of each product are in store. If the product is out of stock, its image will be greyed and the button text changes to "Out of Stock". You can increase or decrease the amount you want to add to your cart, as well as changing the currency to display different prices. There is also a button under each product that will lead you to the info page.

Cart

The cart will consist of all the items added through the store. From here you can adjust the amount or delete it from the cart. If there are no items in the cart, the "Checkout"-button will be hidden. A total price will be listed at the bottom, where you can, as in the store, change the currency to display different values. When the user has adjusted the cart as wanted, one can click on the "Checkout"-button to continue.

Checkout

The checkout is a form where the user can input their information for payment and shipping. There is a general info section, shipping info section and payment section. If the shipping information is the same as the general info, you can then click a checkbox to hide the shipping info. When all the info has been inserted correctly, you can then click the “Order”-button to order the product/s. The user will then be redirected to an order confirmation page.

Contact

In the contact tab, you can find a simple form where the user may send a message, whether it's a problem they are facing or general feedback. Simply fill out the form and press send.

Mobile

For smaller devices, the 4 text links in the navbar, as well as the profile button, has been replaced by the hamburger menu and moved to a sidebar, which upon opening, can be closed by a button in the top right corner marked with a cross symbol.

Netlify

When using this project on netlify, there is an issue with the API and its communication with netlify. But it should work perfectly fine in the localHost. The only issue in netlify is that it won't display the prices correctly.

Reflection

What You Learned

Throughout this project I have gotten more familiar with firebase and its firestore and auth features. Routing has played a big part, as well as a better understanding of hooks, customHooks, contexts and reducers.

I have gotten to learn even more about coding with React and how to set up the structure of the project, with components and the ones mentioned above.

I was playing around with the idea to create a very dynamic form, which seemed great in the beginning, and might have worked even better with more work. But as it is now, I ran into the problem where I had less control over how to actually style the forms based on different needs. So all the forms ended up looking the same. Which in some cases are fine. But as the form was, I ended up making the checkout, and profile form without the form component.

During testing the site, I re-learned that I should compress my images. All my images were generated with the help of ChatGpt. Then compressed with <https://tinypng.com>.

Future Improvements

- I will fix it so when you find yourself in the product info tab, and you click “To Store”, you will actually end up at the product you were currently on. Right now it just sends you to the Cherry Blossom Tree as default...
- Increase/decrease the quantity number based on purchases.
- Add an admin profile for adding/removing products and increasing/decreasing their quantity.
- Try to perfect the form component, and research if it could be an effective/good way to make forms faster, but also with proper control.
- Add actual product information.
- Upload/edit profile picture through Cloudinary.
- Make more components out of what is already there.
- Loading features.
- Clear the entire cart.
- I need to finish the order history responsiveness. For the smaller screens, I wanted to remove 1 or 2 of the tabs, and in general, make each order clickable which would route the user to the orders receipt page.

Note

In order to upload all of my products to the firebase, I used my teacher's earlier example of a json file which can be found in the **/public/data/** folder. The local example I used before this is located in the **/src/assets/** folder