

Class 9: Installable Prototype App

1. Review: Last Class
2. Installable Prototype App
3. Studio - Homework 3, Sprint 2

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Review: Slots

Slots are a way to pass content from a parent component to a child component. They allow you to create more flexible and reusable components.

App.vue

```
<script setup>
import Card from 'Card.vue'
</script>
<template>
  <Card>
    <template #header>
      <h2>Card Header</h2>
    </template>
    <template #body>
      <p>Card Body</p>
    </template>
  </Card>
</template>
```

Card.vue

```
<script setup>
</script>
<template>
  <div class="border border-gray-300 rounded-lg">
    <header class="bg-gray-100 p-4">
      <slot name="header"></slot>
    </header>
    <main class="p-4">
      <slot name="body"></slot>
    </main>
  </div>
</template>
```

Review: GitHub Issues

1. Create a button component in your Homework 3 repository.
2. Commit your changes using a commit message that references the issue number (e.g. `#1`).
3. When you are finished with your changes, close the issue.

If you want to close the issue automatically when you push your changes, use the following commit message:

```
implement button component (closes #1)
```

Installable Prototype App

Progressive Web App

A Progressive Web App (PWA) is a type of web application that is installable on a user's device and can work offline or with a poor network connection.

PWA requirements:

- A manifest (provides metadata about the app)
- A service worker (enables offline functionality)
- HTTPS (for security)

Homework 3: Sprint 2

Goal: Create an installable prototype app that documents the functionality of your UI component library.

Activity: Installable Prototype App

Together, let's create a PWA from your Homework 3, sprint 2.

Tips: Unable to Install PWA

First try: Hard refresh in your browser

Codespace:

- Stop your dev server
- `npm install` again

GitHub Pages:

- `npm run build` and `npm run publish-pwa`
(`Ctrl + Shift + R` on Windows, `Cmd + Shift + R` on Mac)
- In `github.com` **Pages** setting for repo, set **Branch** to none. Save. Then set to `gh-pages`. Save.

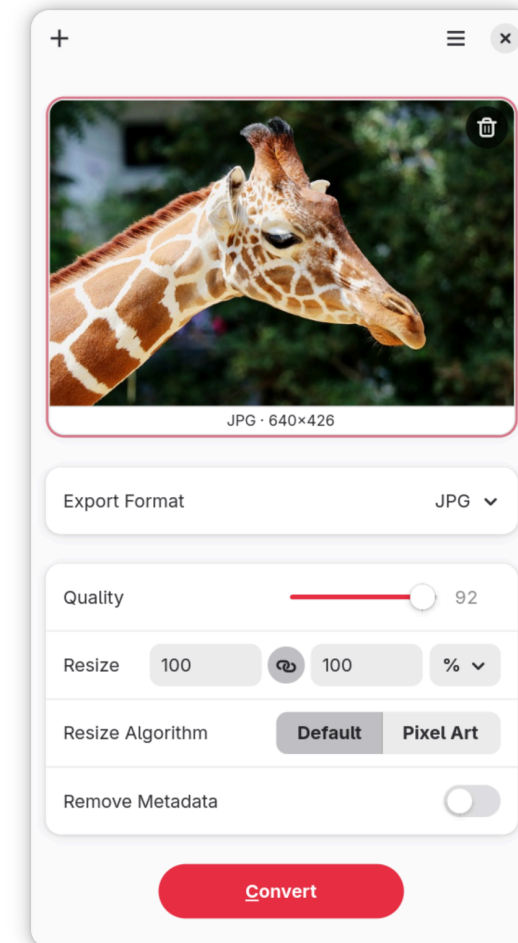
Homework 3: Sprint 2

Goal: Create an installable prototype app that documents the functionality of your UI component library.

Sub-Goals: Implement progressive web app (PWA) functionality in your Homework 3 prototype app.

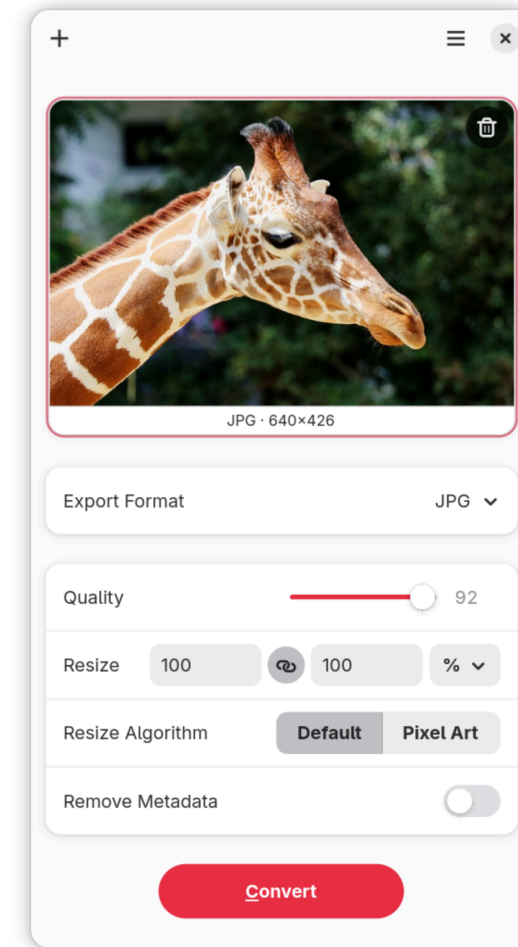
Sub-Goals: Implement additional components that are necessary to implement an “image conversion” app.

Note: You are not implementing an image conversion prototype.



Activity: Component API Design

Working with a peer, **identify the components** that are necessary to implement an “image conversion” app. **Design the API** for these components.



Studio: Homework 3, Sprint 2

1. Create an **issue** for each task in your Homework 3 repository.
2. Implement the PWA functionality.
3. Plan and implement the additional components that are necessary to implement an “image conversion” app.

What's Next

Thursday's Class: Oral Exam I Primer + Practice

Next Week: Oral Exam I