Embed a Phoenix page into WordPress

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Links

► Repo:

https://github.com/aronwolf90/phoenix_embedded

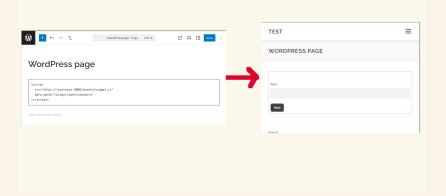
▶ Presentation:

https://github.com/aronwolf90/phoenix-embedded-presentation/blob/master/main.pdf



Goal

Embed a small html sniped into WP that renders the LiveView page.



Steps needed to render a LiveView page

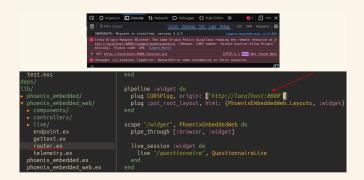
- ► Load html though a normal http request.
- Mound LiveSocket through a js script.

Fetch html

- Fetch html.
- Create container.
- ▶ Add fetched html as innerHtml to the container.
- Attach container above script.

```
Press ? for help
    app.js
    widget.is
                                onst widgetHost = new URL(currentScript.src).origin:
vendor/
                               const widgetPath = document.currentScript.getAttribute("data-path");
  tailwind.config.is
                                .then(response => response.text())
docker-compose.vml
                                  const container = document.createElement("div")
mix.exs
mix.lock
                                  container.innerHTML = data:
phoenix embedded dev.db
                                  currentScript.before(container)
phoenix embedded dev.db-shm
```

Fix cors error



Use separate layout

- Layout without header or body.
- Without LiveView layout.
- With stylesheet link.

```
phoenix embedded web/
                             pipeline :widget do
                                 plug CORSPlug, origin: ["http://localhost:8080"]
                                 plug :put root layout, html: {PhoenixEmbeddedWeb.Layouts, :widget}
       app.html.heex
       root.html.heex
                               scope "/widget", PhoenixEmbeddedWeb do
       widget.html.heex
     core components.ex
     lavouts.ex
                                 live_session :widget, layout: false do
                                   live "/questionnaire", QuestionnaireLive
      questionnaire live.ex
   endpoint.ex
                               <link phx-track-static rel="stylesheet" href={url(~p"/assets/app.css")} />
                               <%= @inner content %>

    phoenix embedded web/

        app.html.heex
       root.html.heex
        widget.html.heex
      core components.ex
      lavouts.ex
```

Mount LiveSocket

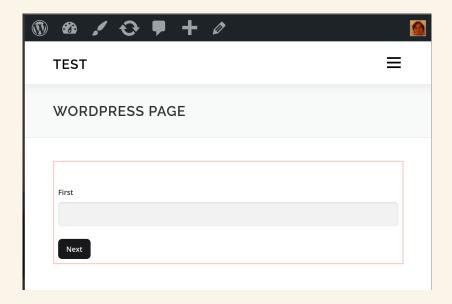
- Copy LiveSocket code from app.js.
- Add csrf token to layout.

```
▼ phoenix embedded web/
                                  <link phx-track-static rel="stylesheet" href={url(~p"/assets/app.css")} />
                                   <meta name="widget-csrf-token" content={get csrf token()} />
         app.html.heex
                                  %= @inner content %>
        root.html.heex
         widget.html.heex
                                url = '${widgetHost}/${widgetPath}
                           fetch(url, { credentials: "include" })
                             .then(response => response.text())
                                 inst container = document.createElement("div")
                               container.innerHTML = data;
   app.js
                               currentScript.before(container)
   widget.is
 tailwind.config.js
                                longPollFallbackMs: 2500.
 config.exs
                                params: { csrf token: csrfToken}
 dev.exs
 runtime.exs
 test.exs
                               liveSocket.connect()
                               window, liveSocket = liveSocket
```

Multi step form

- Use one LiveView page.
- ► Hide/show parts when one clicks on next.
- Use global form to make reconnection work correctly.
- Use hidden fields for internal assigns.

Demo



Debug

- Open external page.
- Open console.
- Paste something like the following in the console.

```
// remove current page content
main = document.querySelectorAll("main")[0]
new_main = document.createElement("main")
main.replaceWith(new_main)

// load LiveView page
script = document.createElement("script")
script.src = "http://localhost:4000/assets/widget.js"
script.setAttribute("data-path", "/widget/questionnaire")
new_main.appendChild(script)
```

Thank You!

Questions?

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