ZERO TO HERO

Power Apps + Claude Code

# Make your Canvas app load fast.

The exact prompt I gave Claude Code, the three slow patterns it fixed, and the checklist I now run on every app.

SAME APP · SAME DATA · SAME LICENCE — 2,000

| | |
|---|---|
| Cold open, median of 5 | 5.3 s → 2.9 s |
| App Checker issues | 7 → 0 |
| Delegation warnings | 12 → 0 |

**A measured demo app, not a customer app.** "Crew Work Orders" on Dataverse: 2,000 work orders, 600 accounts. Published app, phone size, cache cleared before every open. About 2 to 3 s of any open is the Power Apps player itself.


01 The exact prompt

02 Three slow patterns

03 The speed checklist

04 Go deeper


Fixes like this, live: the Inner Circle build calls. 7 days free.

# The exact prompt.

THE SHORT VERSION, AS IN THE REEL

```
/canvas-apps:canvas-app connect to <your app> and fix what slows the <screen> list
```

THE FULL VERSION I RECOMMEND

Claude Code

```
/canvas-apps:canvas-app Connect to my live Canvas app <app name> through the coauthoring session. The <screen name> list is slow to open.
1. Run App Checker and the compiler. List every delegation warning.
2. Find everything that loads before the first screen (App.OnStart, ClearCollect of whole tables) and every LookUp inside a gallery row.
3. Propose a fix for each one, with the before and after formula.
4. Keep the UI and behaviour identical: same screens, controls, filters, sort order and results.
5. Wait for my approval, then apply the fixes.
6. Re-run App Checker and the compiler and confirm 0 issues and 0 delegation warnings.
```

1 **Install the Canvas Apps plugin**

In Claude Code: `/plugin marketplace add microsoft/power-platform-skills` then `/plugin install canvas-apps@power-platform-skills`. It needs the .NET 10 SDK.

2 **Open the app in Power Apps Studio**

Turn on Settings › Updates › Coauthoring, save, and keep that browser tab open the whole time.

3 **Run the prompt and connect**

When Claude asks, paste the Studio URL from the address bar and sign in. It joins your coauthoring session and edits the live app.

Try it on a copy in a dev environment first. **Approve every change.**

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# Three slow patterns, three fixes.

## 1 Whole tables loaded before the first screen

Nothing shows until App.OnStart finishes. These are the demo app's real formulas: four whole tables plus a lookup per work order.

BEFORE · App.OnStart

```
IfError(
    ClearCollect(colWorkOrders, AddColumns('Work Orders', CustomerName,
        LookUp(Accounts, Account = 'Service Account'.Account, 'Account Name')));
    ClearCollect(colAccounts, Accounts);
    ClearCollect(colAssets, 'Customer Assets');
    ClearCollect(colBookings, Bookings),
    Set(varLoadError, true))
```

AFTER · App.OnStart

```
Set(varLoading, false); Set(varLoadError, false)   // the gallery reads the table directly
```

## 2 A filter the server can't run

If any part of a filter isn't delegable, Studio shows a **yellow delegation triangle** and the device filters only the first rows, up to the **data row limit** (500 by default, 10,000 at most). Here `Text(Priority)` cast a choice column, which Dataverse can't delegate.

BEFORE · gallery Items

```
Filter('Work Orders',
    (IsBlank(WOLSearch.Text) || WOLSearch.Text in Name || WOLSearch.Text in City) &&
    /* status filter, unchanged */ &&
    (WOLPriority.Selected.Value = "Any" || Text(Priority) = WOLPriority.Selected.Value))
```

AFTER · delegable

```
Filter(Search('Work Orders', WOLSearch.Text, Name, City),
    /* status filter, unchanged */ &&
    (WOLPriority.Selected.Value = "Any" || Priority = Switch(WOLPriority.Selected.Value,
        "Low", 'FS Priority'.Low, "Medium", 'FS Priority'.Medium,
        "High", 'FS Priority'.High, 'FS Priority'.Emergency)))
```

The count label and empty state got the same fix: **CountIf and IsEmpty**

## 3 A LookUp in every gallery row

A LookUp in a row template runs once for every row the gallery shows. In Dataverse the lookup column already knows its related record, so **read through the relationship**.

BEFORE · customer label, per row

```
LookUp(Accounts, Account = ThisItem.'Service Account'.Account, 'Account Name')
```

AFTER · the relationship

```
ThisItem.'Service Account'.'Account Name'
```

# The speed checklist. Tick all ten before you publish.

1 **App.OnStart is empty** or close to it. Nothing heavy runs before the first screen. ☐

2 **No ClearCollect of whole tables.** Bind galleries to the table so rows page in as you scroll. ☐

3 **Zero delegation warnings:** no yellow triangles, no compiler warnings. ☐

4 **Search with Search(), StartsWith() or =. `in`** delegates on Dataverse text, not on every source. ☐

5 **No casting inside a filter.** Compare a choice to its value, never `Text(Priority)`. ☐

6 **No LookUp in gallery rows.** Read related data through the relationship. ☐

7 **IsEmpty() for "no results",** `CountIf(table, true)` for an exact Dataverse count. ☐

8 **Test with a low data row limit** (Microsoft suggests 1) so nondelegable formulas show up fast. ☐

9 **Run App Checker** and clear every performance issue before publishing. ☐

10 **Time cold opens:** clear the cache, open 5 times, compare the median. ☐

Bring your slow app to a **live build call** in the Inner Circle.

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# This was one screen. Do it on every app.




THE ZERO TO HERO INNER CIRCLE

## Build it with me, live.

- Two live AI development calls a month on real Power Platform work
- Ask Victor and the specialists about your own slow app
- Claude Code workflows, prompt templates and starter files
- Early access to Book 1, AI-Powered Development for Power Platform Professionals

**Start your 7-day free trial** fromzerotoheroes.com/inner-circle.html

**Set up the skills** fromzerotoheroes.com/builder-skills.html

Measured on November 10, 2026 on a demo app in a dev environment, no customer data. Your numbers will vary with your data, network and device. Delegation facts: Microsoft Learn, "Query limitations: Delegation and query limits" and "Connect to Microsoft Dataverse". Plugin: microsoft/power-platform-skills, canvas-apps.

Questions? Bring them to the Inner Circle live build calls.