

Biotechnology

Before sharing the research app

From the field note "Your lab's Streamlit or Shiny app works. Can another scientist depend on it?".

The short version

- ◇ Keep the approved calculation and the screens people know; change the operating layer around them.
- ◇ Sign-in identifies a user. Check permission on every request, result, cache entry and download.
- ◇ Give each run a durable identity, so a refresh or a retry never loses or duplicates work.
- ◇ Accept the release on reference outputs, recovery tests and a handover someone else can operate.

The checklist

- ☐ Agree users, projects, inputs, method version and expected outputs.
- ☐ Check native hosting, sign-in and job capabilities first.
- ☐ Deny unauthorized status, result and download requests.
- ☐ Test cache scope and the agreed access-revocation policy.
- ☐ Persist runs through refreshes, failures and safe retries.
- ☐ Compare reference outputs and expose failed or partial work.
- ☐ Have another operator deploy, recover and roll back.

Want a second pair of eyes on your answers?

Book a free 30-minute discovery call at www.seriustech.com/contact or email contact@seriustech.com. We reply within 1 business day.

Read the full note with examples and sources at www.seriustech.com/blog/biotech-research-app-production. © SeriusTech.