

# FLEX - Twelve Factor App

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# Excursion: Twelve Factor App

<https://12factor.net/>

1. **Codebase** One codebase tracked in revision control, many deploys. Every app has its own repo, two apps in one repo violates the factor.
2. **Dependencies** Explicitly declare and isolate dependencies, no dependencies from the OS influence the build. There's one deterministic build command.
3. **Config** Store config in the environment.

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4. **Backing services** Treat backing services as attached resources, e.g. a database can be swapped for another
5. **Build, release, run** Strictly separate build, release and run stages
6. **Processes** Execute the app as one or more stateless processes. (State resides only in DB.)

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7. **Port binding** Export services via port binding. It is entirely self-contained and relies on runtime injection.
8. **Concurrency** Scale out via the process model
9. **Disposability** Maximize robustness with fast startup and graceful shutdown. An app should have low startup time.

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10. **Dev/prod parity** Keep development, staging, and production as similar as possible
11. **Logs** Treat logs as event streams
12. **Admin processes** Run admin/management tasks as one-off processes

# Exercise: Twelve Factor App

Which factors are fulfilled in Erlbank? Which are not?