

My Golem Electron App

This project packages a Golem-based R Shiny application inside an Electron desktop app for macOS, and it also builds the images for Linux and Windows.

It bundles the R runtime (**R.framework**) directly in the app, so no external R installation is required.

Project Structure

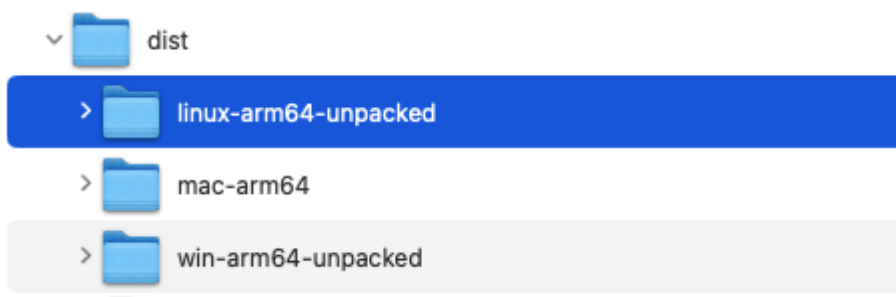
```
/electron
├── app/                                # Production R script for launching
Golem app
├──   └── run_app.R
├──   main.js                          # Electron main process
├──   resources/R.framework           # Bundled R runtime (flattened for
macOS)
├──   package.json                    # Electron build configuration
├──   scripts/                        # Build helper scripts
├──       ├── pre_build_fix_rframework.sh
├──       └── post_build_check.sh
```

Final Run

```
cd electron
```

```
npm run prod-build
```

/dist folder contains the dmg to be installed. Launch the app



About This App

This is a modern Shiny app packaged inside Electron.

It uses shinythemes + shinyWidgets for a cleaner UI.

Electron + Shiny App

Dashboard

Settings

About

Choose dataset:

mtcars

Refresh Data

mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
21.00	6.00	160.00	110.00	3.90	2.62	16.46	0.00	1.00	4.00	4.00
21.00	6.00	160.00	110.00	3.90	2.88	17.02	0.00	1.00	4.00	4.00
22.80	4.00	108.00	93.00	3.85	2.32	18.61	1.00	1.00	4.00	1.00
21.40	6.00	258.00	110.00	3.08	3.21	19.44	1.00	0.00	3.00	1.00
18.70	8.00	360.00	175.00	3.15	3.44	17.02	0.00	0.00	3.00	2.00
18.10	6.00	225.00	105.00	2.76	3.46	20.22	1.00	0.00	3.00	1.00

Build Process - Details

1. Prepare R.framework

This step flattens **R.framework** (removes **Versions/** symlinks, ensures **PrivateHeaders**, **Headers**, **Libraries**, **Resources** are real folders).

```
cd electron
npm run fix-rframework
```

Verify:

```
ls electron/resources/R.framework/Resources/bin/Rscript
```

It should exist.

2. Ensure **run_app.R** is bundled

Place your production launcher script in:

```
electron/app/run_app.R
```

It will be copied into:

```
Contents/Resources/app/run_app.R
```

inside the `.app` at build time.

3. Build the app

```
cd electron  
npm run prod-build
```

This runs:

- `fix-rframework`
- `electron-builder`
- `post-build-check` (verifies `Rscript` inside `.app`)

Output:

- `.dmg` and `.zip` in `electron/dist/`
-

Running the App

- Install `.dmg`
 - Open `My Golem Electron` from Applications
 - Electron will:
 1. Launch `Rscript run_app.R` from `Contents/Resources/app`
 2. Start Shiny server on fixed port (e.g. `4242`)
 3. Open `http://127.0.0.1:4242` in Electron window
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