

1 User Interface

Upon downloading PowerEdu.jl on their machine, user will interact with the following directory heirarchy. For the sake of clarity, folders pertaining only to the IEEE.14 Bus test case are shown, however, in general, every test case will have its dedicated folders for inputs and outputs.

1.1 Directory Structure

```
root (PowerEdu)
├── data
│   ├── IEEE.14
│   │   └── IEEE.14_Data.txt
├── processedData
│   ├── IEEE.14
│   │   ├── BusDataCard_pu.csv
│   │   ├── BranchDataCard_pu.csv
│   │   ├── YBus.csv
│   │   └── ... (other generated files)
├── src
│   ├── ContinuationPowerFlow.jl
│   ├── IEEE.CDF_Parser.jl
│   ├── OptimalPowerFlow.jl
│   ├── PowerFlow.jl
│   ├── SparsePowerFlow.jl
│   ├── StateEstimation.jl
│   └── ... (other modules)
├── main.jl
├── README.md
└── LICENSE
```

1.2 Pluto Notebook Environment