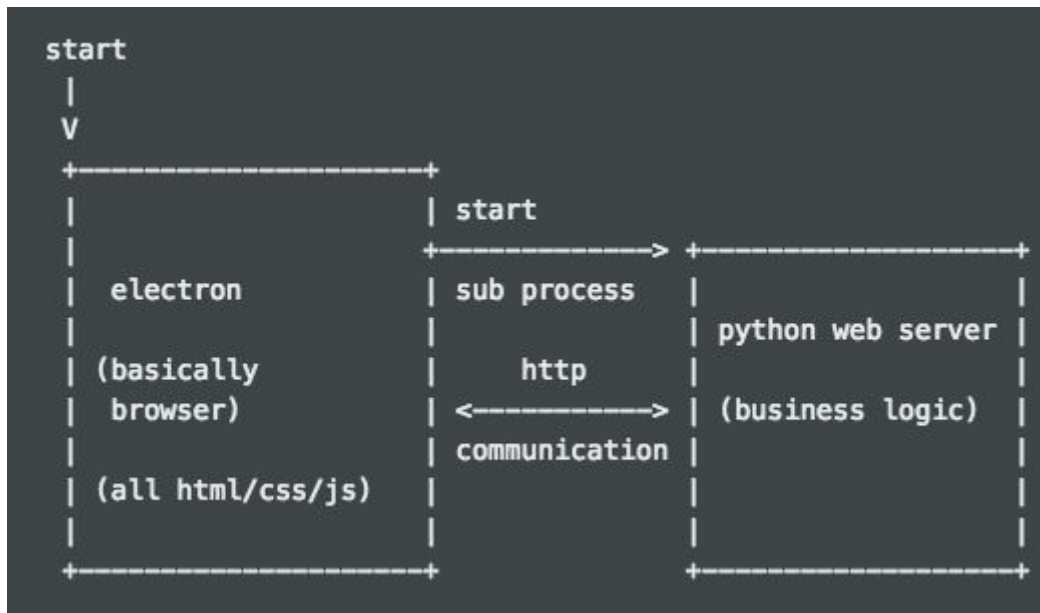


Software Architecture



Backend

- Python Classes
 - Why: Because that is what our team is most comfortable in
 - Classes for AddressBook and Entry
 - Address Books are held in memory while the program runs
 - Commands come from the API
- API
 - Flask web server with routes that we use as an API
 - Pure POST requests, (not RESTful) but returns status code with each response
 - Connects electron frontend with python backend

Frontend

- HTML, CSS, JS
 - Why: Because we want to create a modern looking GUI
 - Used to put content inside of our GUI
- ElectronJS
 - A framework for building desktop apps using web technologies
 - Why: We originally planned to make a web app, but after reading the project requirements we realized it had to be a desktop application. This allows us to continue building the app as if it were a web app and at the end package it up as a cross-platform desktop app.
 - Makes and controls the GUI
 - Sits in the middle of html,css,js and python
 - Hot reloadable
 - Native menus, notifications
 - Ability to create an installer

Implementation

- The app starts
 - Electron starts the API server in the background
 - Electron is now ready to work so it creates the main window
- The app quits
 - Electron closes the windows
 - Electron kills the API server