

Phase 3: Software Description

I plan to implement a backend Rest API for the course scheduling frontend web application I built a couple of weeks ago for another class. The program will have two main components. First is a web scraper that extracts course data from banner web. Second is a request router that handles incoming HTTP requests. This is appropriate to GoLang because it has concurrency support built-in so that I can easily scrape multiple web pages concurrently. The program will rely on Go libraries such as “github.com/gorilla/mux” (HTTP requests router and dispatcher for the API) and “golang.org/x/net/html” (HTML tokenizer for the web scraper).

Package gorilla/mux (<https://github.com/gorilla/mux>)

Package html (<https://godoc.org/golang.org/x/net/html>)