[student names redacted]

R&M Software Solutions
CS 410 Fall 21: Project proposal reflection
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Introduction of system

Our team has been paired with Glorious Recovery to create a web-based calendar which scrapes various event pages for upcoming events which can be embedded into their home website. This system will seek to enrich the quality of life for addicts by providing them a sense of community at substance free events, which will be beneficial in reducing the isolation and stigma that these people experience.
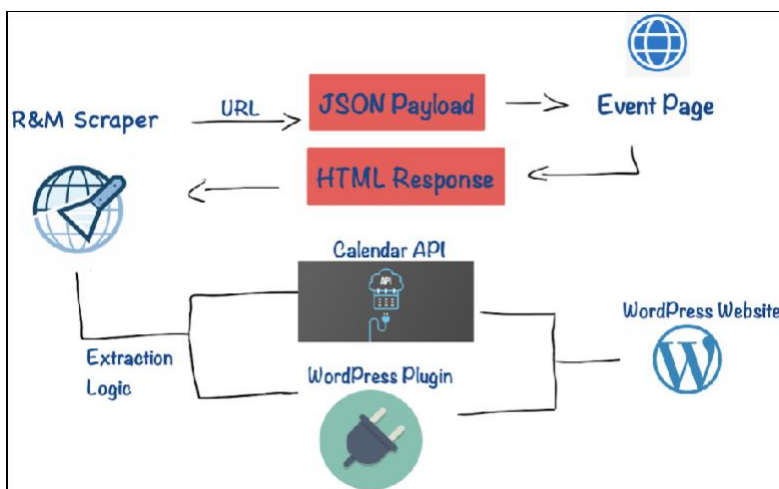
Intended use of system

This system will be hosted by Glorious Recovery, and potentially other similar organizations, and will be mostly used by their members. Their members will typically be recovering addicts looking for ways to fill their time with activities instead of drugs or alcohol. The system will be used on a computer or mobile device through Glorious Recovery's website.

Overall functionality

The way we understand it, this system will provide a central hub for Glorious Recovery in the form of a calendar which can be embedded into their WordPress website. This calendar should automatically be populated with events listed within a given set of authorized event pages. To get this event data, a web-scraper will run on a daily schedule. The event data is added to the organization's calendar on their website. Then, our system will recommend certain events for each user based on their location and interests. If a user sees an event that they would like to attend, they can select and export it to add to their own calendar. Additionally, we would like to refactor the events page on their website to make it more modular.

Main components of the system

The scraper will go to the login URL with the JSON payload, allowing access to the requested page.
There, it will send back the HTML of the page to the scraper. The scraper then pulls relevant event data from the page and sends it to the calendar API and Wordpress plugin. This is all then displayed on the Wordpress website.