Central Connecticut State University
Department of Computer Science

Software Engineering Studio
Project Proposal

Project Title:	Recovery Galaxy
Organization:	Glorious Recovery Foundation
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Background Information

Glorious Recovery Foundation is a 501(c)3 non-profit organization that unites, encourages, and empowers people impacted by alcohol and drug addiction to find their way to happy, joyous and healthy life by organizing events full of love, compassion and support.

WHY WE DO WHAT WE DO?

Glorious Recovery has one goal in mind, and that is to inspire people recovering from addiction to stay in recovery and go all-out for long-term recovery.

Individuals in early recovery often experience intense substance craving due to imprinted memories of use and changes to the brain's reward system. The Glorious Recovery team works very hard to host frequent events that are extremely fun and diverse. From our own experience, we know that social gatherings full of laughter and human connections are very healing — both emotionally and physically.

In recovery, we often become disconnected from our families and friends. Initially, this is due to our active addiction, and later due to our significant commitment to recovery. We want to stop that separation! We encourage every individual to include their kids, significant others, and friends in their recovery journey, allowing them to enjoy a substance-free life with their loved ones.

Additionally, Glorious Recovery understands that many individuals entering recovery are financially drained due to high treatment costs, the loss of a job, or even imprisonment. We always strive to make our events affordable so everyone can attend regardless of their financial status.

Many people struggling with SUD hide and suffer in silence due to the unforgiving stigma that still exists in our communities. One of the ways we are planning to smash the shame, the guilt, and the stigma is by launching the "Recovery is the New Cool" campaign. It will include apparel,

social media posts, blogs, videos, and activities. We are proud to be in recovery because we are not victims, we are survivors of this non-discriminatory disease.

Project Description

Help people recovery from alcohol and drug addiction, their families, kids and friends discover recovery events already planned and scheduled within their local communities. There are hundreds recovery organizations across Northeast hosting amazing but currently it's difficult to find them, remember them and share them out. Recovery Galaxy (aka, Glorious Recovery Event Calendar) will help our recovery communities to find something fun and recovery-related to do at all times!

Project Scope

The scope of the project would be to build a solution to scrape specific list of Facebook Pages and Public Groups, future events, and copy them onto a web-based calendar that could be linked from Glorious Recovery Wordpress Website.

Following are requirements for this solution:

- Scrape selected Facebook Pages and compile list of events that are published on these Pages
- Copy those events and publish them onto Web-based Calendar
- This calendar should be either embedded in Glorious Recovery website or easily linked to it.
- Display these events on a Glorious Recovery website in calendar, list (with thumbnail photo) format and have a filter to display 'today' or 'this week'
- Ability to search events by state, town, date, and categories
- Leverage FB event categories
- Events should be displayed in chronological order
- Build personalization giving people ability to mark 'interested', 'going' or 'add to favorites'
- Home of calendar page should highlight and display events in that individual town and preferred category. Ei. I live in Trumbull CT, and interested in music events, the home page for me, would display concerts/festivals near Trumbull. It would be great to be able to specify distance range. Ei, all music events within 50ml radius, or all music events in Fairfield county.
- Include "share" button to easily share the events, or calendar page via FB, text, link, etc
- Include "add to my calendar" button to be able to download the event and add to save calendars
- Create a form to add an event manually
- Create subscribe form to add FB Pages manually to be added to the scraper
- Scraper should be run on daily basis to add, update or delete event in case any changes happen
- Ability to flag an event as "featured, which would then be displayed on top of the events page
- Create HTML code snippets which then could be used and added to other websites

- Event details should display: Date, Time, Title, Image, ticket link, organization's name (include all co-hosts), link to the original event post, price (can be range), link to tickets, duration, description, category, address, map, share, invite friends, list of other upcoming events hosted the same organization, and whatever other fields are available on the FB original event.
- Display if an event is one of a series and is recurring
- Button for 'Contact Us' invoking email app with prepopulated email address for the Host Organization

Super nice to have would be to have some kind of intelligence to recommend events based on the individuals behavior and clicks.

Project Challenges
Embed the calendar into Glorious Recovery website
Facebook changes it's UI all the time without telling anyone
Ability to maintain code, fix bugs after the students have moved on
Build a scheduler that will run on at least once a day to update the calendar

Constraints & Assumptions
I hope I can host this solution somehow on my wordpress website. But wouldn't know the first thing how to get that done. Also, scheduler or some kind of cron job that would have to be enabled to run the scraper for new updates.

Sponsor-Provided Hardware and Software
none

Sponsor and Project Specific Deliverables
Kickoff and Review of the Proposal
Design document with conceptual architecture & wire frames
Solution architecture document outlining software components
System/Application design document outlining hardware & network components
Development plan outlining development phases
Unit tests outlining how each software unit will be tested
Integrated tests to test full solution
Bug/Fix tracker
Close out and hand-off document for sustainment

Proprietary Information
n/a