Web Scraper/Event Manager for Glorious Recovery

R&M Software Solutions

Why are we making this project?

- Project
  - Event scraper
- Goals
  - Enriching the life of recovering addicts
- Problem Domain
  - How components interact
  - Wordpress
  - Automate process
- Project users
  - Admin
  - People in recovery

Functional Requirements

- Users must be able to:
    - Browse event page
    - Search/filter events
    - Add to calendar
- Admins must be able to:
    - Add/Delete source URLs
    - Manually add/delete events from website
    - Maintain scraper
    - View analytics
- The Scraper Script must be able to:
    - Get event data from Selected FB URLs
    - Send events to website and Google Calendar

Non-Functional Requirements

- Recovery-friendly events only

- Execute scraper multiple times a day

- No tracking of users activity

- Must not scrape any personal information

Product Backlog Highlights

ID	As a/an	I want to…	so that…	Notes	Priority	Size
			Sprint 1	Sprint 2	Sprint 3	
1	User	see a "browse upcoming events" page	it's easier to find them	view by most recent - least recent	High	5
2	User	have a search function for events	I'm able to find specific events		Medium	2
3	User	click on each event and see more details	I can see if it would be something I would enjoy going to	Maybe a popup feature or hidden until clicked	High	1
4	User	add events to my personal calendar	I don't have to do it manually	add to google calendar/iOS calendar	High	1
5	User	filter the events page based on interests, time, and location	I spend less time looking at the wrong events		Medium	5
6	User	see events on a calendar	it is easier for me to see what is coming up.	Either embed google calendar or try something else	Very High	8
7	Admin	Add and delete URL's from the scraper list	So I don't have to re-upload the list		High	3
8	Admin	view analytics related to the calendar and events	I can have the data		Low	3
9	Admin	have the ability to delete events	I can remove potentially inappropriate events		High	2
10	Scraper	pull events from facebook and display them on the page's calendar	I can provide up-to-date information on upcoming events to users of the page	Needs to run once or twice a day	Very High	8
SUM						38

Very high priority:
6, 10
Size = 16

High priority:
1, 3, 4, 7, 9
Size = 12

Medium priority:
2, 5
Size = 7

Low priority:
8
Size = 3

Total size = 38

Sprint Planning Strategies

Our first sprint is planned around laying the foundation that our system will run on

3	User	click on each event and see more details	I can see if it would be something I would enjoy going to	Maybe a popup feature or hidden until clicked	High	1
4	User	add events to my personal calendar	I don't have to do it manually	add to google calendar/iOS calendar	High	1
10	Scraper	pull events from facebook and display them on the page's calendar	I can provide up-to-date information on upcoming events to users of the page	Needs to run once or twice a day	Very High	8

After the first sprint our web scraper will be able to:

- Pull events from a list of URLs
- Push event info to website

After the first sprint a user will be able to:

- Add an event to a personal google/iOS calendar
- Click a dropdown on the event to see more details

Lessons Learned

- Interacting with the customer
  - Initially had a good meeting schedule going with our customer, Aleksa
  - Issues with communication recently
  - Need to be more transparent with Aleksa about setbacks
- Teamwork
  - Need to meet more often
- Ethics of Web Scraping
  - Legal gray area

Questions?