

INTRODUCTION

Dekalb Chamber Partnership manages a community event calendar where member businesses can post all upcoming events. This provides a localized area where people of the community can be informed of the events that are happening in the community.



PROBLEM STATEMENT

The current event calendar for Dekalb Chamber Partnership is not widely used by member organizations. Each organization uses their own calendar and social media accounts to post their events. This results in users having to go to up to 25 different places to see event details for every organization. Our team was tasked to create an open-source calendar system as a Joomla plugin that any business can use within their existing website.

TECHNICAL REQUIREMENTS

Requirements for a successful digital calendar system:

- Embed functionality into any existing community website
- Filter events by categories, city/town, organizations, and cost
- Ability to switch from month, week, and list views
- Option to repeat events (every week, every other week, or every month)
- Submit event for approval
- Database to store organization events

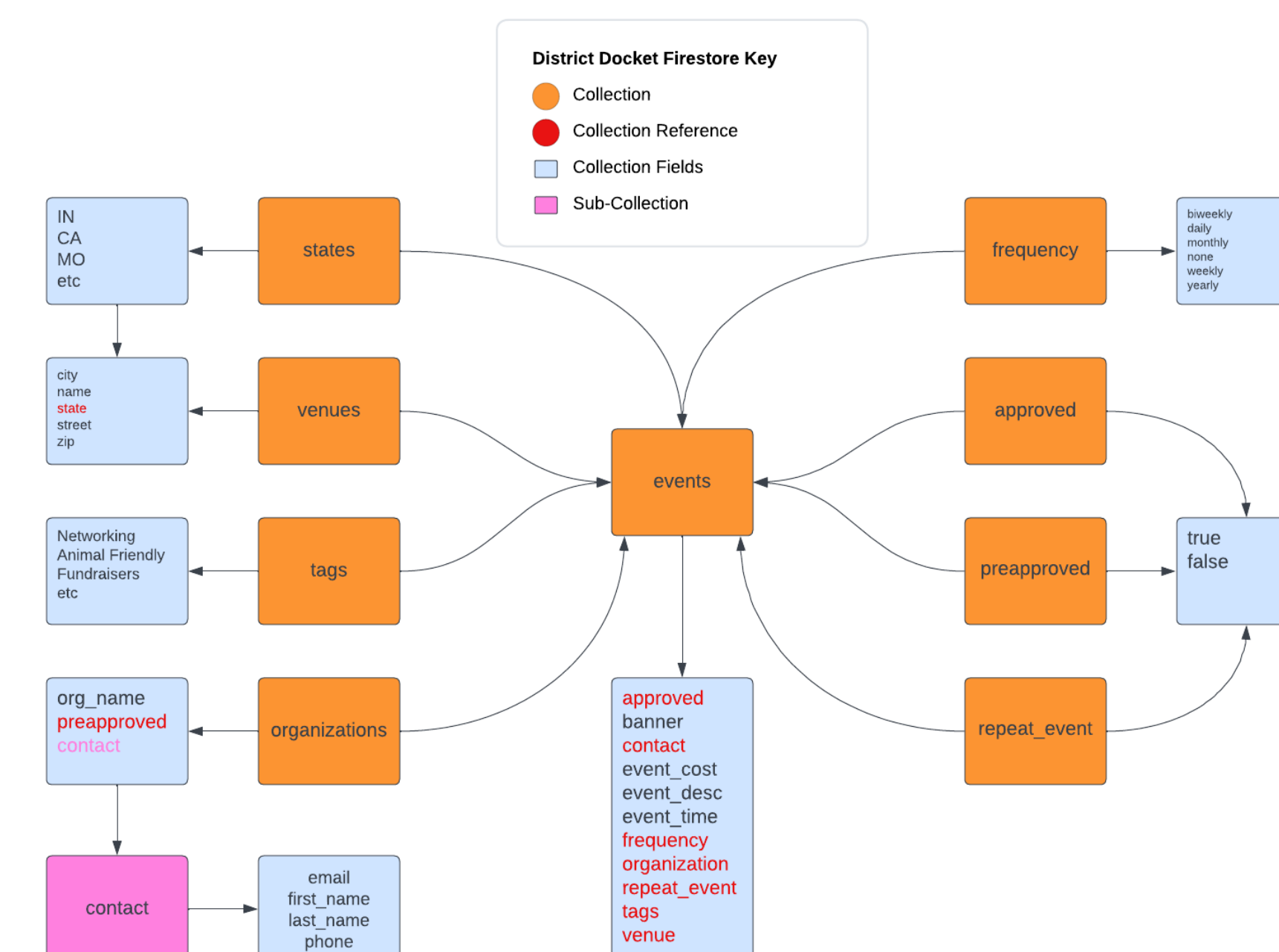
CHALLENGES

Throughout the design and development process of the project, there were some issues that we faced. The challenges that we faced are listed below.

- Delayed access of the website hosting service SiteGround
 - After reviewing SiteGround, we determined that Joomla Plugin can be used to embed the calendar system to the website
- Migrated from using PHP and SQL backend to using JavaScript and Firebase database

DESIGN CONCEPT

The following is a diagram of our entity relationships diagram as the data appears in our database. To see our UI, see our demo.



FINAL DESIGN

- Calendar created to be inserted into the Dekalb Chamber Partnership website
- Available on both desktop and mobile
- Created month, week, and day views, as well as an event page.
- Admin and approval pages created.
- Project is now open-source so it can be used by the public.



CONCLUSION

We started the project with our objective set and we were making serious progress. Then, over time came dependencies that altered everything we've done. We also had a lot to learn about working with a team. Nonetheless we were able to overcome those obstacles as a team and now we have a fully functioning open-source calendar that we are very proud of.

LESSONS LEARNED

- Team dynamic and communication is essential.
- Don't put off work until the last minute.
- Make sure we have an understanding of our dependencies and try to limit them.
- Have regular meetings with customer to make sure we are meeting their demands.

ACKNOWLEDGEMENTS

The team would like to thank the following for their guidance in the success of this project:

- **Professor David Corcoran**, Adjunct professor, CSIT
- **Professor Wendy Yagodinski**, Chair and Associate professor, CSIT