

SE 491 BIWEEKLY REPORT 6

sdmay20-25: Consumer Aware Warehouse Management

4/1/20 – 4/15/20

Team Member	Roles
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Lindsey Sleeth lssleeth@iastate.edu	Meeting Scribe Project Manager Software Developer
Sam Stifter stifter@iastate.edu	Test Engineer Software Architect Software Developer
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Elijah Buscho elijah@iastate.edu	Test Engineer Software Dev Proj Manager
Devin Üner druner@iastate.edu	Software Architect Machine Learning Specialist

Bi-Weekly Summary

Objective

The objective for this iteration was to finalize any project details and make sure everything is fully integrated and working correctly.

Accomplishments

The frontend is integrated with the backend to provide complete functionality. This includes displaying all distributions and their info, filtering those distributors, searching for those distributors, viewing products in a distributor, viewing the order history of a product, and viewing the missed orders of a product. Only performance related integration such as results paging is left to be integrated.

The machine learning portion has been extended to train on all SKUs, and prediction data is being forwarded to the database.

The backend added some new features in this couple of weeks. One of which was adding an endpoint to only send distributors that have products to reduce irrelevant data being sent and handled. More filters were added in general to allow the frontend to request only the data they needed. { Omair insert accomplishments here}

Summary of Weekly Advisor Meeting

During this week's advisor meeting we were advised to continue wrapping up final project details and to get started on the final project and poster. We have a meeting scheduled to present to our client the final details of the project and also present to our advisor before our scheduled presentation time.

Past Accomplishments (Individual)

Lindsey Sleeth

This past week I worked with Jameel on integrating and finalizing changes from the backend into the frontend. The previous week we had integrated, but quickly realized there were some edits that needed to be made for performance and to make the data display better. These changes were related to filtering and how much information we were displaying compared to how much information we needed to be displaying. We communicated with the backend team and had them update some endpoints and create

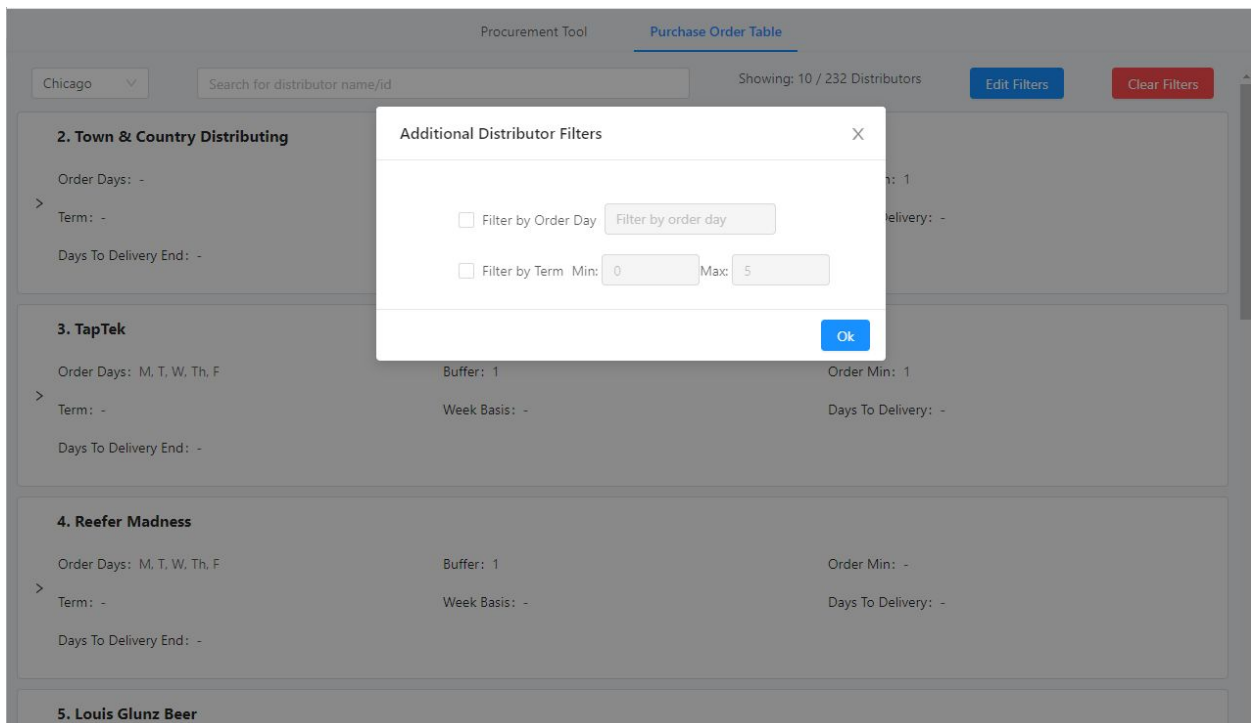
some new ones so that we could easily have pagination and filter out distributors with no products to show or be reordered on the frontend. Jameel has included photos of the filters below.

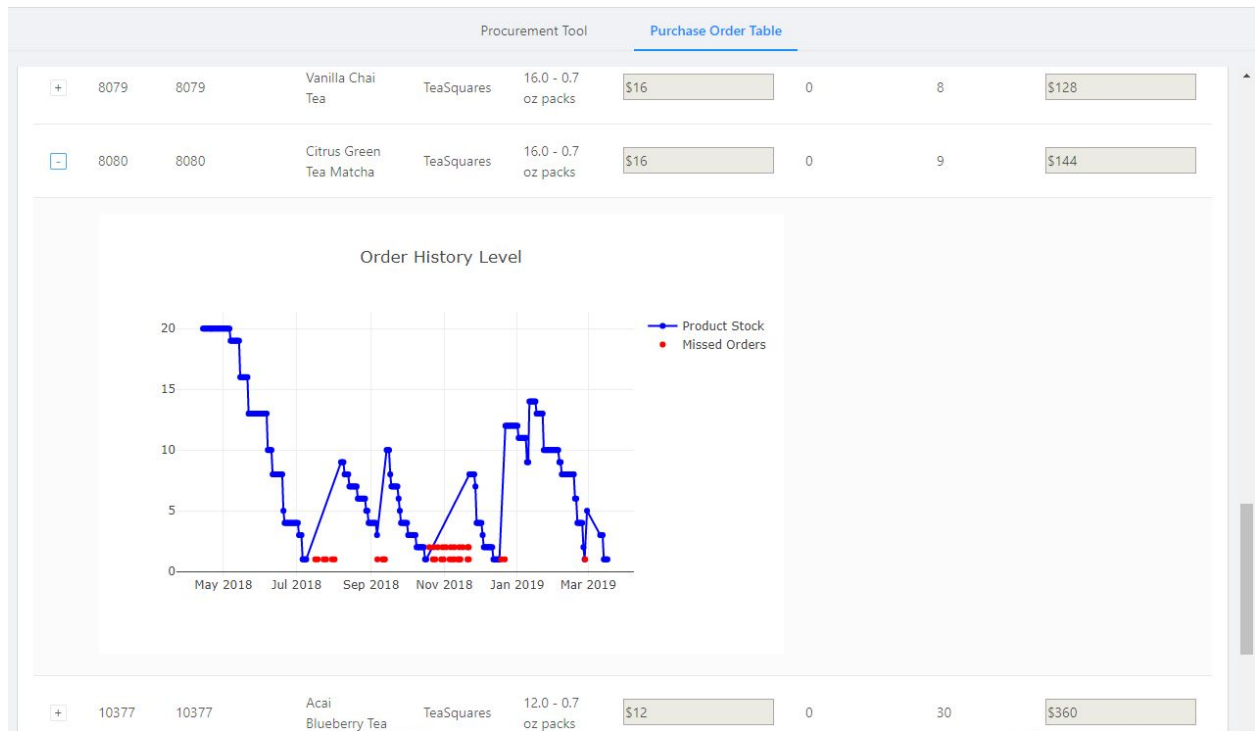
Elijah Buscho

I ran into issues implementing the testing algorithm, because of lack of data and focus being shifted towards tying up loose ends of the project, so I instead generated a graph to show the accuracy of predictions on a single SKU (Passionfruit).

Jameel Kelley

During the past period, attention was focused on integrating the changes on the backend with the frontend to display all the work the team has done thus far and prepare for a demonstration. Individual integration, as well as integration work with Lindsey, has consisted of adding filters, order history graphs, missed orders, and updating API requests. Doing these has placed the frontend into a more finalized state with very few changes left.





Andrew Smith

Over the past two weeks I worked on the design document and added comments for the areas that need to be revised. I also worked on making a new endpoint for the frontend for getting only distributors with products so we aren't sending distributors who we won't be placing orders with because they don't have products. I also added the flag to not send distributors that have the attribute deleted equal to true. I think this flag is in the database so if that distributor ever distributes with Crafty again it will be easier to onboard them again.

Omar Ijaz

With the project winding down, I decided to wrap up any missing details. With Sam, I worked on paginating some endpoints for the frontend. This helped the frontend better display results of queries. Throughout the week, I got more requests to paginate certain endpoints. In addition, I have also begun to look over the design doc and presentation from last semester to begin revision on the parts that I wrote.

Sam Stifter

This week I started working on revision of the design document. I also finished up the endpoints we needed by creating some filters so the frontend would not have to do filtering manually. I also worked with Omar to create pagination in the endpoint results so the data came back in a more manageable form.

Devin Üner

I worked on making a script to get all the SKUs so we could train on all of them. I also found a small bug in the ML algorithm that should potentially increase its accuracy. I also worked on fully integrating the algorithm with the backend architecture, so it can push and pull predictions. Also worked with Lindsey to get the umlaut on my last name on the poster.

Individual Contributions

Name	Individual Contributions	Hours this Period	Hours Cumulative
Lindsey Sleeth	Frontend Integration, Final Presentation and Poster	12	47
Jameel Kelley	Frontend Integration (adding filters, order history graphs, missed orders, and updating API requests)	18	57
Sam Stifter	Document revisions, pagination for endpoints, filtered endpoints	10	72
Andrew Smith	Design Document edits and new endpoint for only distributors with products	12	76
Omair Ijaz	Pagination	11	65
Elijah Buscho	Accuracy visual	10	61
Devin Üner	Bug fixes, integration with ML algo and backend	15	

Pending Issues

Lindsey Sleeth

There are currently no pending issues.

Elijah Buscho

N/A

Jameel Kelley

No pending issues. Continued testing of individual distributors to see if any issues present themselves

Andrew Smith

No pending issues

Omair Ijaz

No pending issues, unless frontend requires an endpoint

Sam Stifter

Waiting on Frontend to report any issues for bug fixes if any are found.

Devin Üner

none

Upcoming Plans

Lindsey Sleeth

I will be finishing the poster and presentation for the presentation.

Elijah Buscho

Revising report and rehearsing presentation. Adding to testing section of report.

Jameel Kelley

Once the pagination of distributor endpoints is integrated into master, integration into the frontend will be worked on as time permits. Working on the presentation for Monday is also a priority.

Andrew Smith

Upcoming I plan on working on the presentation and finishing up the design document and other reports we need to finish.

Omar Ijaz

From here on out, I will be working on the poster/presentation/design doc and helping develop any new backend queries that are required.

Sam Stifter

Revising the design document fully, writing documentation for the final report. I will also be working on the presentation slides.

Devin Üner

Double check the validity of some integration code I wrote to get all the SKUs.