

# CS4320 Semester Project

## Project Description:

Semester Project working on Augur-View frontend and machine learning worker  
Simon Schroeder (scsknb), Syed Tihaam Ahmad (tawm9), Noah Berry (nbbnt2), and  
Sean Newell (spnm6b)

## Sprint 1:

### Requirements:

- ❖ Create about page describing usage of Augur tools (see *About Page* requirement)
- ❖ Implement advanced filtering capabilities (see *Advanced Filter* requirement)
- ❖ Alter card view and dashboard layout (see *Card View*, *Dashboard View*, and *Repos Nav Button* requirement)
- ❖ Implement machine learning worker to create visualizations (see *Machine Learning Worker* requirement)
- ❖ Finish all requirements by monday after exam week (see *Semester Project* requirement)

Component	Priority	Requirement Name	Requirement Description
Advanced Filter	Medium	Shift Button	Move filter button next to pagination controls
Advanced Filter	High	New Controls	Create new filtering controls to allow for more specific bounds of commits and issues
About Page	Low	Information	Create a new page to display instructions and information about the CHAOSS project (including Augur). Should include where metrics are located, how they are measured, and how they are retrieved.
Machine Learning Worker	High	Machine learning visualizations	Utilize machine learning worker to establish new visualizations to add to dashboard view
Card View	Medium	Redesign Cards	Remake the card view. Delete impractical metrics. Possibly include a small visualization.

Dashboard View	Low	Tweak Dashboard	Slight redesign of dashboard view to allow for more visualizations (like the machine learning worker). Create dropdowns that encapsulate visualizations to utilize space better.
Semester Project	High	Date Requirement	Project must be finished by the Monday after finals.
Repos Nav Button	Low	Move Repos Button	Move view change to button on repos page as opposed to a dropdown on the navbar

### Use Case:

#### ❖ Augur View Redesigned Frontend

#### ❖ Description:

- When the user accesses Augur, an about page describing the capabilities and tools should display. User then chooses which view to display data with various tools such as card view, table view, filtering, and even single repository dashboard statistics.

#### ❖ Triggers:

- User chooses a view for the stored repositories

#### ❖ Actors:

- Open source developers
- Repository maintainers
- System administrators

#### ❖ Preconditions:

- User successfully loaded website
- User chooses data visualization

#### ❖ Main Success Scenario:

- User understands Augur's capabilities through about page
- All data is shown in a succinct manner
- Filtering shows correct data

#### ❖ Alternate Success Scenario:

- User finds no repositories that fit filtering criteria (correctly)

#### ❖ Failed End Condition:

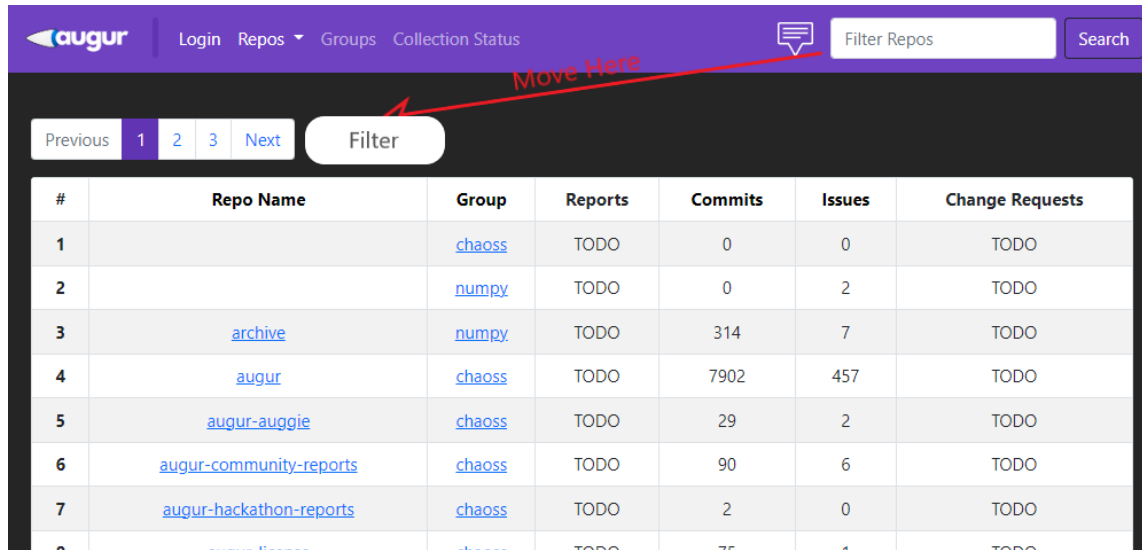
- Filtering doesn't display correct results
- Data organized confusingly

## ❖ Extensions:

- Extended frontend redesign to change color scheme, ADA requirements, etc.

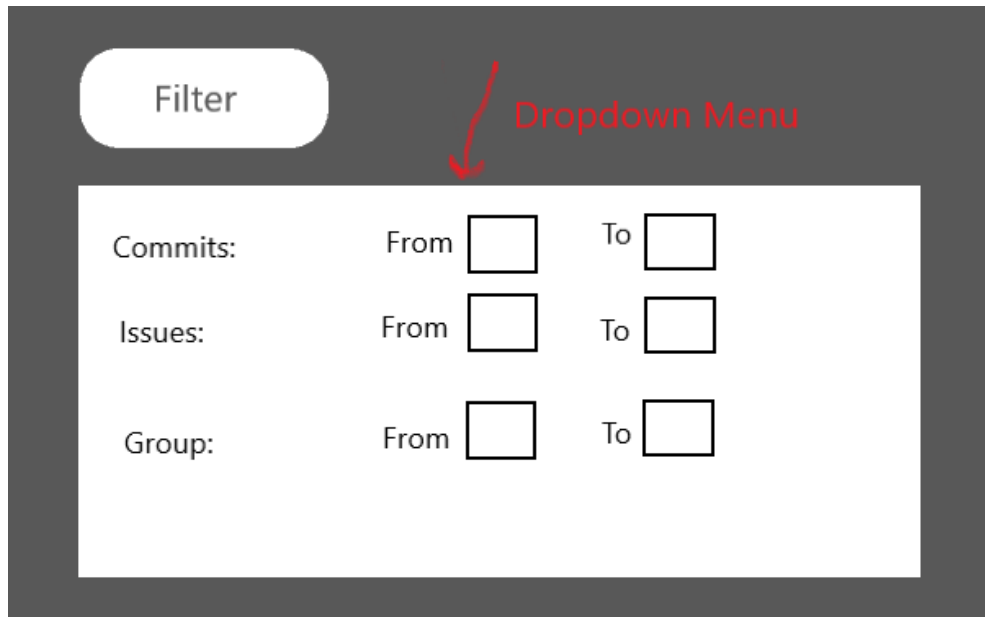
## ❖ Steps of Execution:

- Create about page describing usage of Augur tools
- Implement advanced filtering capabilities



The screenshot shows the Augur dashboard interface. At the top, there is a navigation bar with the Augur logo, links for Login, Repos, Groups, and Collection Status, a chat icon, and a search bar labeled 'Filter Repos' with a 'Search' button. Below the navigation bar, there is a pagination control with 'Previous', '1', '2', '3', and 'Next' buttons, followed by a 'Filter' button. A red arrow points from the 'Filter' button to the top right of the table, with the text 'Move Here' written in red. The table itself has the following structure:

#	Repo Name	Group	Reports	Commits	Issues	Change Requests
1		<a href="#">chaoss</a>	TODO	0	0	TODO
2		<a href="#">numpy</a>	TODO	0	2	TODO
3	<a href="#">archive</a>	<a href="#">numpy</a>	TODO	314	7	TODO
4	<a href="#">augur</a>	<a href="#">chaoss</a>	TODO	7902	457	TODO
5	<a href="#">augur-auggie</a>	<a href="#">chaoss</a>	TODO	29	2	TODO
6	<a href="#">augur-community-reports</a>	<a href="#">chaoss</a>	TODO	90	6	TODO
7	<a href="#">augur-hackathon-reports</a>	<a href="#">chaoss</a>	TODO	2	0	TODO
8	<a href="#">augur-issues</a>	<a href="#">chaoss</a>	TODO	75	1	TODO



The screenshot shows the 'Filter' dropdown menu. It contains three sections, each with a label, a 'From' input field, and a 'To' input field:

- Commits: From  To
- Issues: From  To
- Group: From  To

A red arrow points from the 'Filter' button to the dropdown menu, with the text 'Dropdown Menu' written in red.

- Alter card view and dashboard layout

**Table View**

Move out of dropdown

#	Repo Name	Group	Reports	Commits	Issues	Change Requests
1		<a href="#">chaoss</a>	TODO	0	0	TODO
2		<a href="#">numpy</a>	TODO	0	2	TODO
3	<a href="#">archive</a>	<a href="#">numpy</a>	TODO	314	7	TODO
4	<a href="#">augur</a>	<a href="#">chaoss</a>	TODO	7902	457	TODO
5	<a href="#">augur-auggie</a>	<a href="#">chaoss</a>	TODO	29	2	TODO

**Title or remove empty space**

**Empty Results?**

**Report for: Archive**  
<https://github.com/numpy/archive.git>

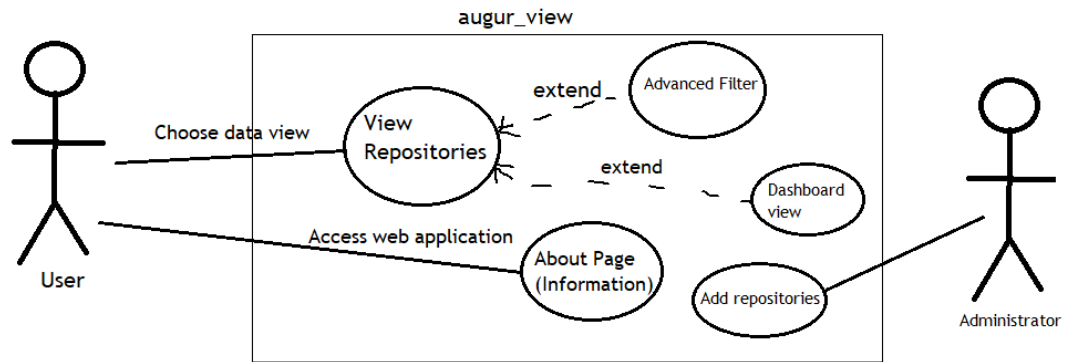
**Contributor Reports** ▼ Make this dropdown

Remove empty space (especially in vert layout)

To reveal visualizations

- Implement machine learning worker to create visualizations
- Finish all requirements by monday after MU exam week

❖ Use Case Diagram:



Link to Github Repository:

[https://github.com/Simon-SS/augur\\_view\\_group\\_12](https://github.com/Simon-SS/augur_view_group_12)