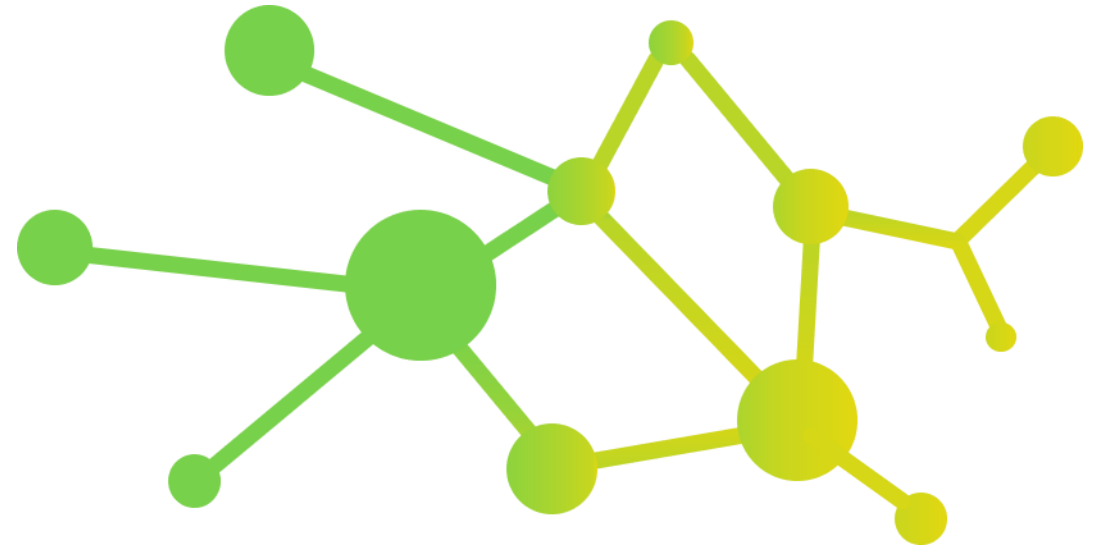




ENHANCING THE AANR KNOWLEDGE NETWORK

*Analytics and Data
Presentation*

1. BACKGROUND
2. APPROACH
3. SCOPE
4. IMPACT
5. PROGRESS
6. TIMELINE



Background



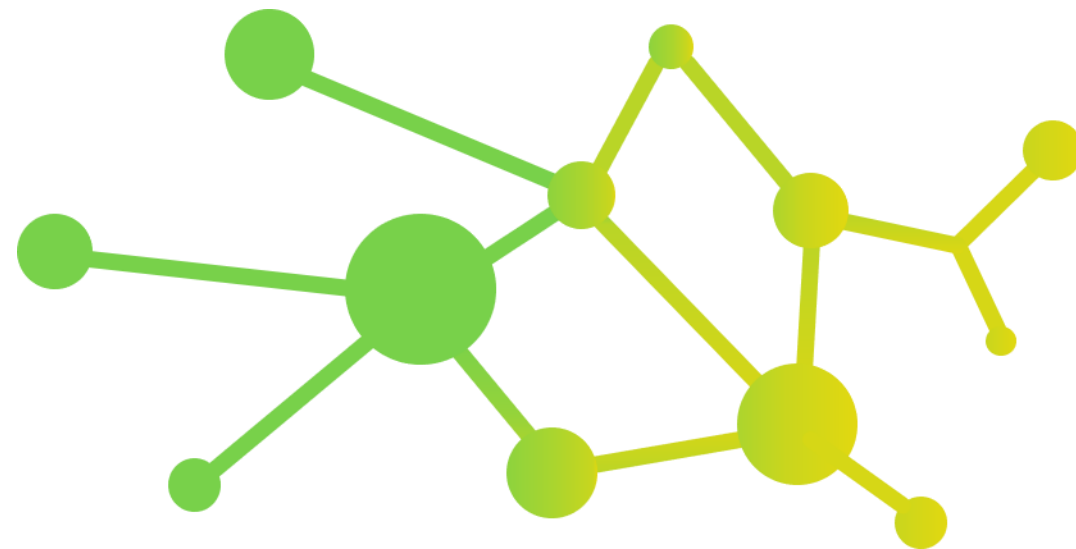
Since the development of the PCAARRD Knowledge Management online portal, members of the consortia expressed their interest to share their information systems



There is a need for an **online system** that will **cater** to their **collaboration, storage, archiving, and sharing** of **AANR publications**



APAARI MANDATE



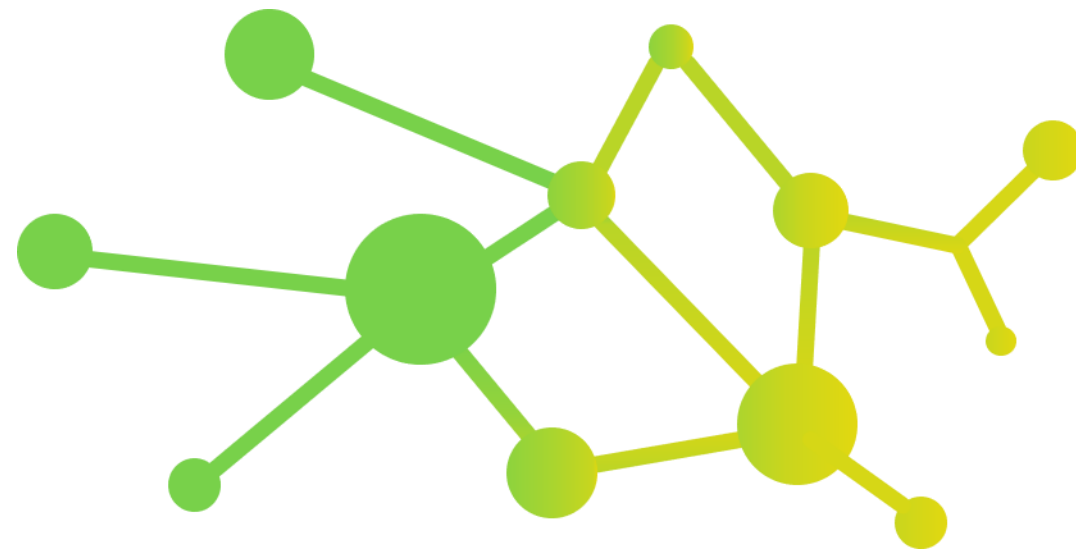
To harness the benefits of agricultural biotechnology and bioresources for human and animal welfare through the application of latest scientific technologies while safeguarding the environment for the advancement of society in the Asia-Pacific region



To enhance the benefits of biotechnologies for the sustainable agricultural development in the Asia-Pacific region, through greater stakeholder partnerships, improved dialogues with policy makers, capacity building and greater public awareness



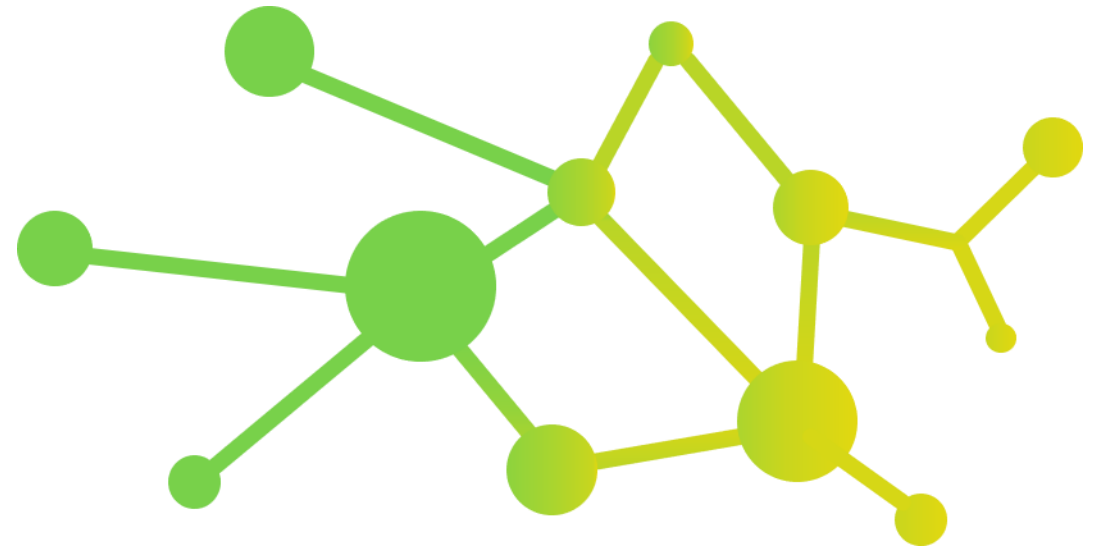
GENERAL OBJECTIVE



To develop an online system for
the AANR Knowledge Network



**EXPECTED
OUTPUTS**





Online system for AANR publications



Inventory of publications from different members of the consortia



Protocols for each consortium member



Training materials on how to use the online system





Online system for AANR publications



Inventory of publications from different members of the consortia



Protocols for each consortium member



Training materials on how to use the online system



Approach



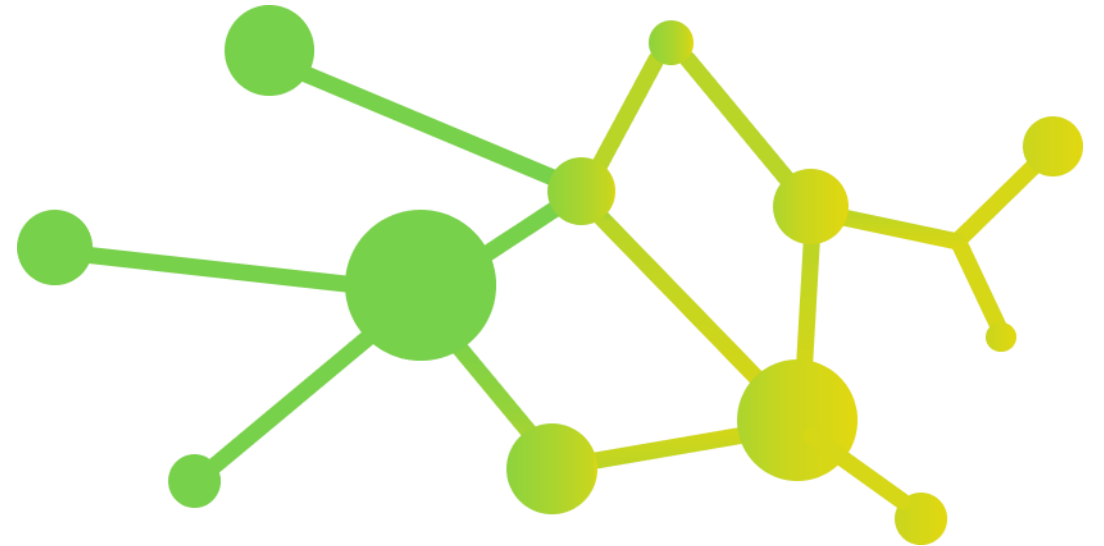
For this module..

 data will be **fetch**ed via **API** and it will be presented using different types of charts

 **Laravel** (PHP framework) will be used for its development

 **ChartJS** will be used for the graphs
 timeline will be **strictly followed**

WHY USE
PHP AND
LARAVEL?





According to w3techs, the most popular server-side programming language is PHP (hypertext preprocessor) with 79% usage and it is also the fastest growing server-side programming language having 113 daily additional sites.





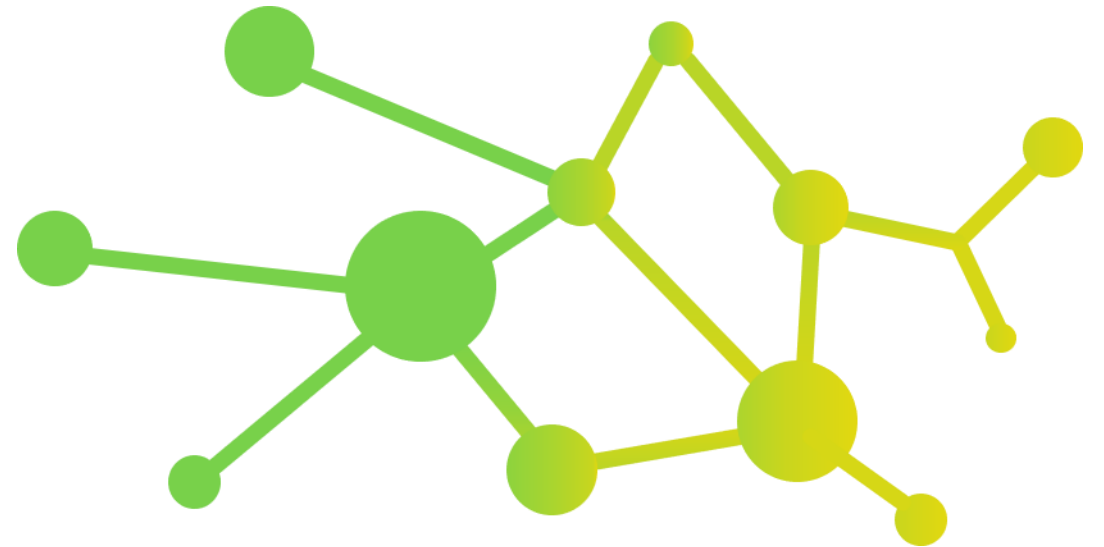
According to several sites and programming blogs, Laravel is the **top 1 PHP framework for Web Development** because it can **handle complex web applications securely**, at a considerably faster pace than other frameworks like CodeIgniter, Symfony, CakePHP, Yii, etc.



It **simplifies the development process** by easing common tasks such as routing, sessions, caching, and authentication.



**WHY USE
CHARTJS?**

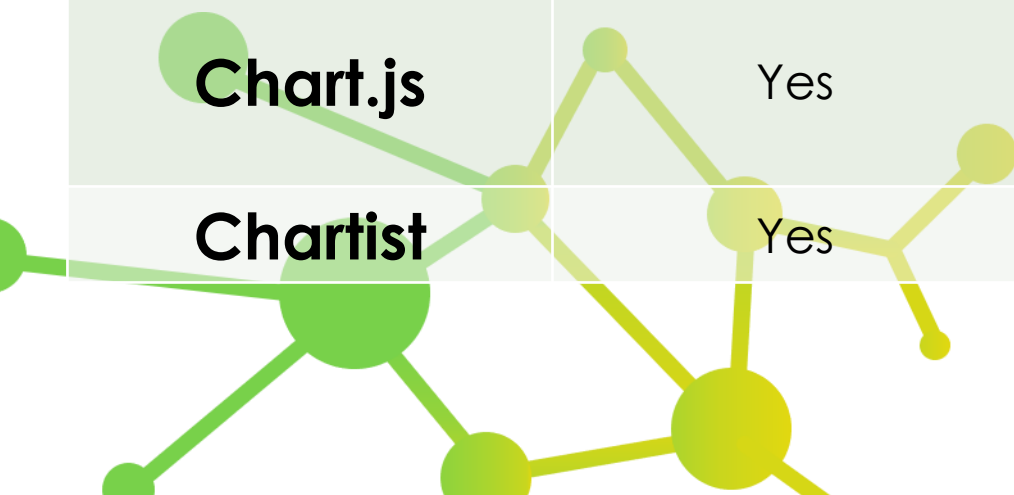




According to ButterCMS, the top 4 JavaScript chart frameworks are the following: HighCharts, FusionCharts, **Chart.js**, and Chartist.



Name	Open Source?	License	Pricing	Features
HighCharts	Yes	HighCharts Standard license CC3.0 for non-commercial usage	\$445 per developer, additional \$170 per year for premium support \$50 for pre-finance startups for first year Free for non-commercial usage	Bar, line, scatter, pie charts Candlesticks, treemaps, maps, and a lot more Limited fallback mode for large (>100000 points) datasets
FusionCharts	No	FusionCharts Software License	\$497 per developer, including one year of premium support	Bar, line, scatter, pie charts Gantt charts, heat maps, and a lot more Zoom scatter-plot support for large (>100000 points) datasets
Chart.js	Yes	MIT License	Free	Bar, line, scatter, pie charts, and a lot more Financial charts available via pre-initial release plugin
Chartist	Yes	WTFPL + MIT License	Free	Bar, line, scatter, pie charts





The Chart.js API is fairly simple and well documented. However, the theming system is very limited compared to the other options, forcing you to specify colors for individual charts.





Chart.js uses canvas instead of SVG. While this may not be very apparent, SVG elements for text and other elements tend to look more crisp.



Chart.js is **actively maintained**, and has a **few plugins to extend its functionality**.

Scope



This module covers:



Analytics



Charts



Data presentation



Impact



This module..



categorizes the publications



counts the number of publications per category



displays the data in a presentable and understandable way



keeps track of the publications under
AANR



Progress



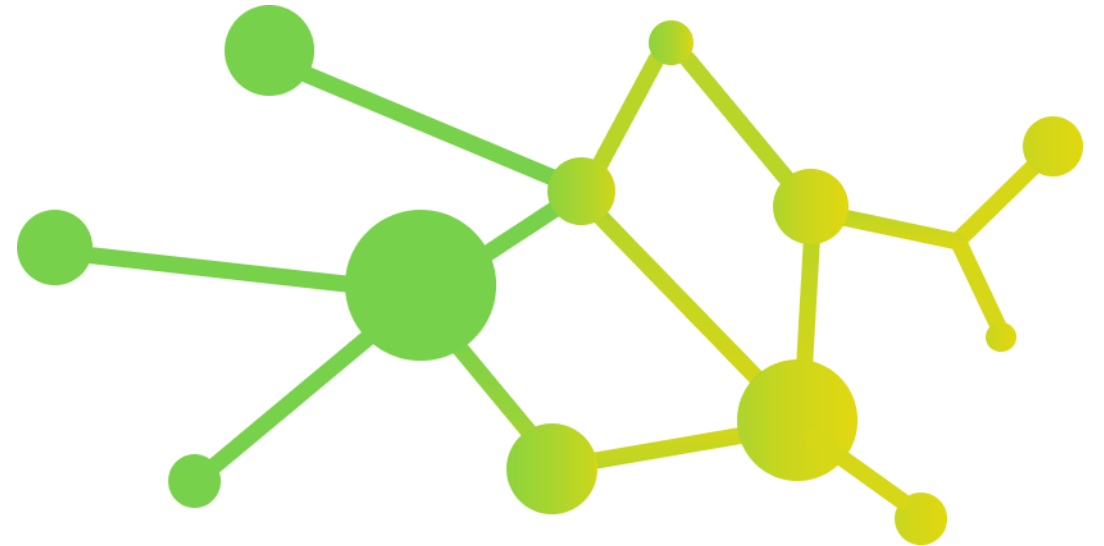
So far..



there are already sample screens
for the module



INVENTORY PER CONSORTIUM



Inventory as of **May 1, 2019****244**

Mariano Marcos State University

435

Benguet State university

342

Isabela State University

1131

Central Luzon State University

1564

University of the Philippines Los Baños

296

Cavite State University

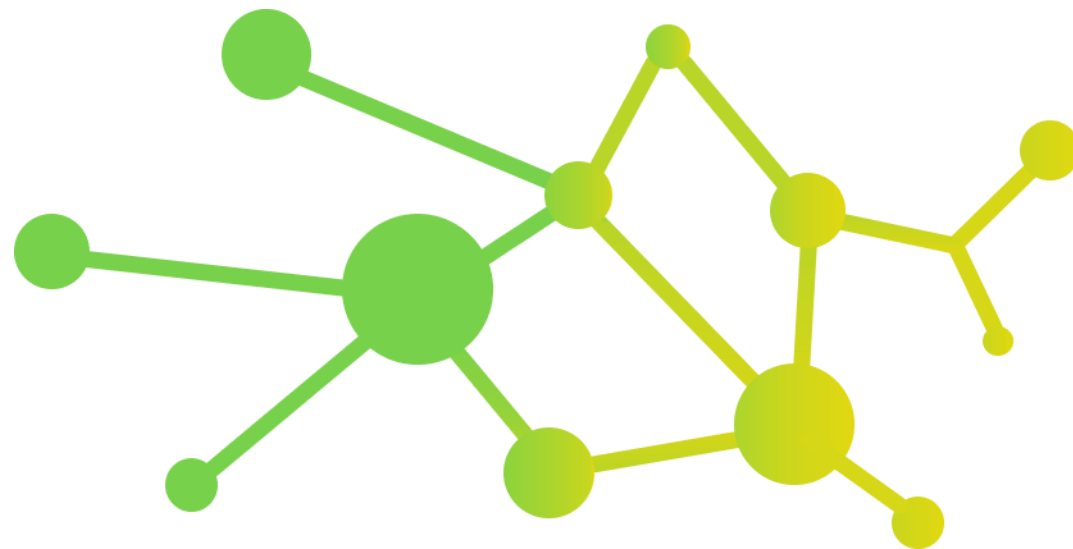
760Bicol University College of Agriculture
and Forestry**564**

Western Visayas State University

98

Bohol island State University

DASHBOARD VIEW



Knowledge Management

1564

Total number of publications

1004

Agriculture



59

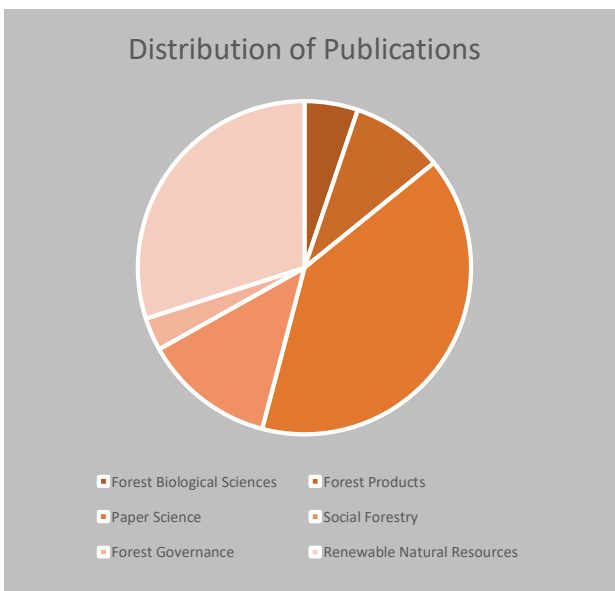
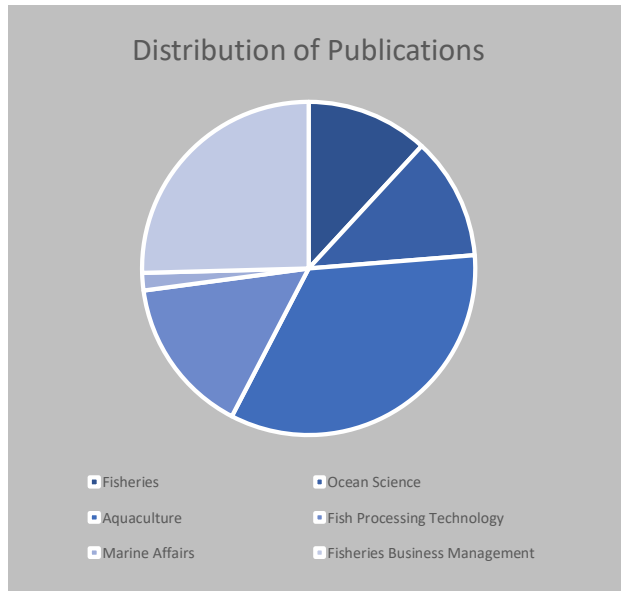
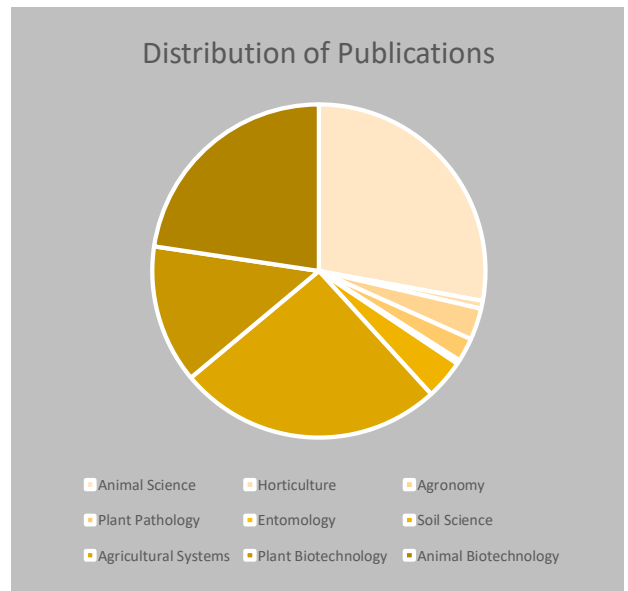
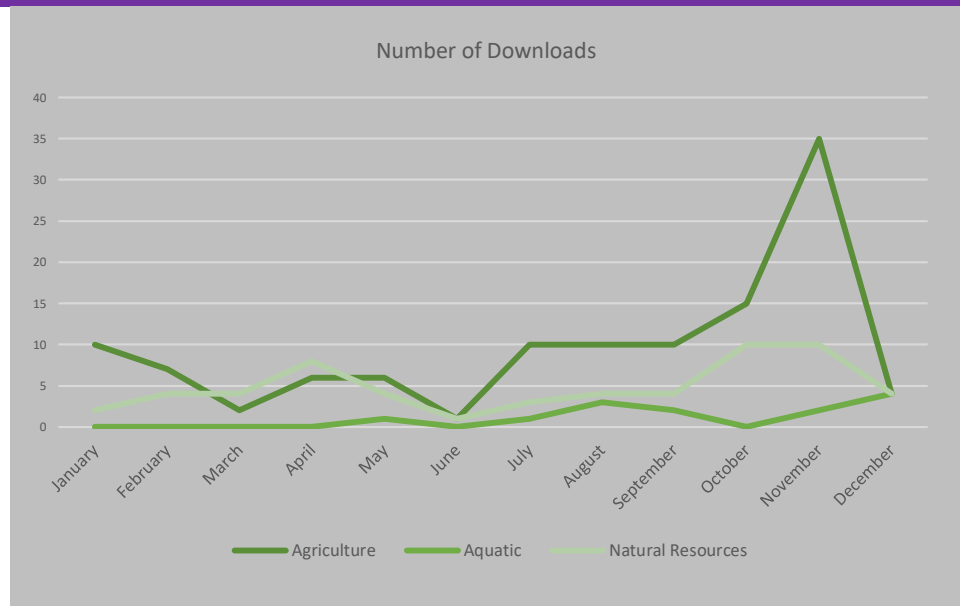
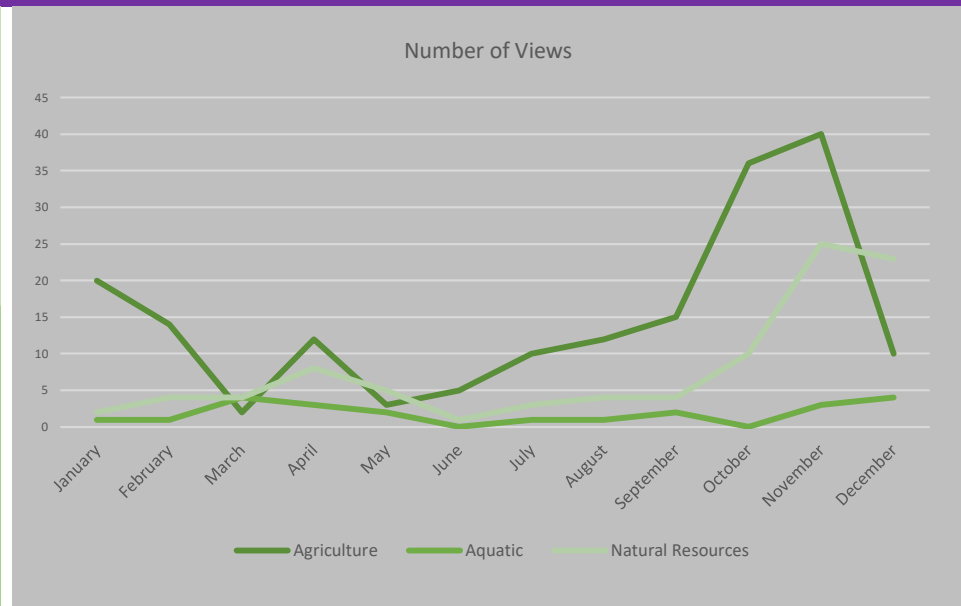
Aquatic



501

Natural Resources



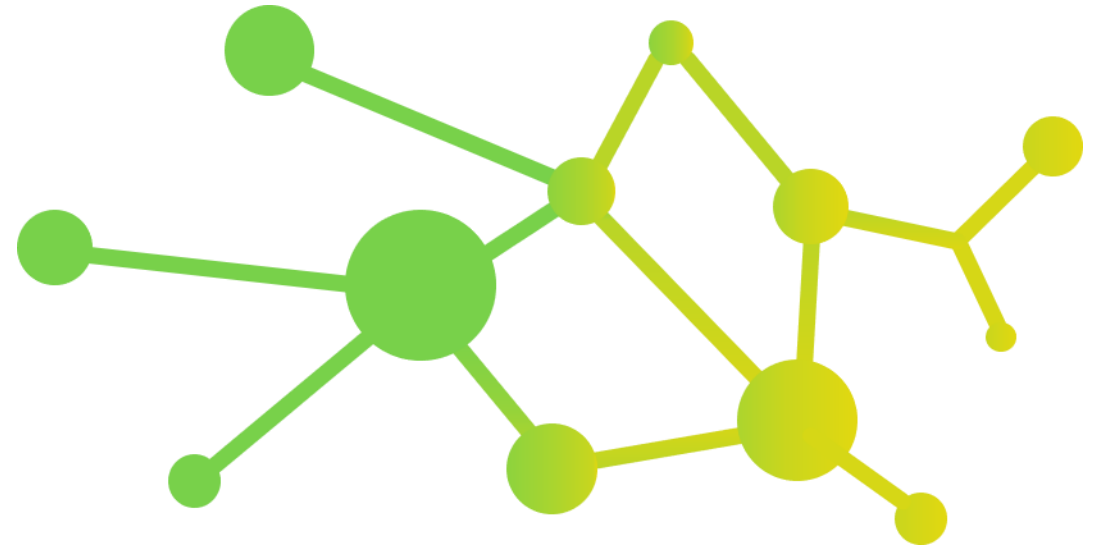


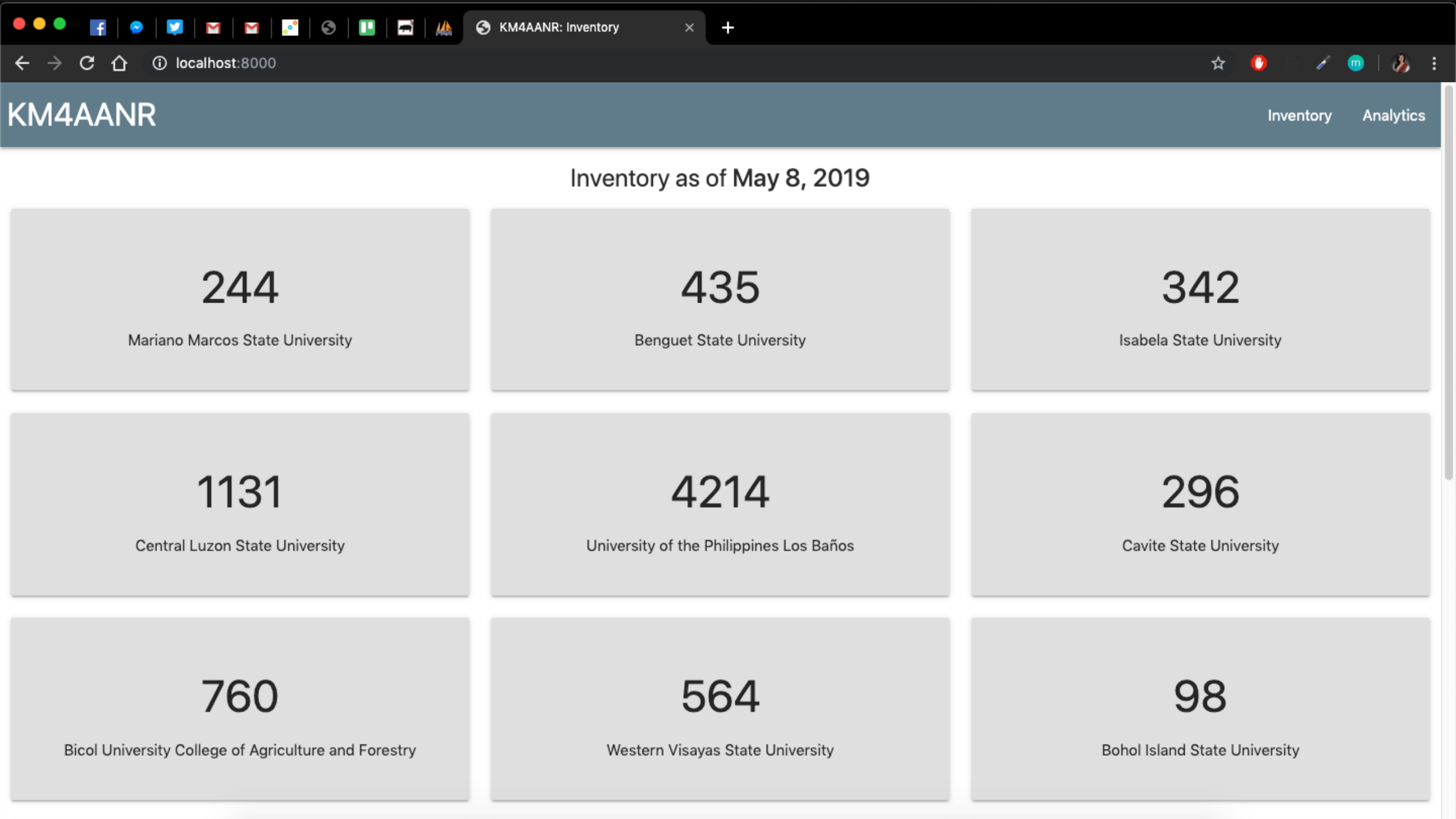


and the sample screens were
already translated into code

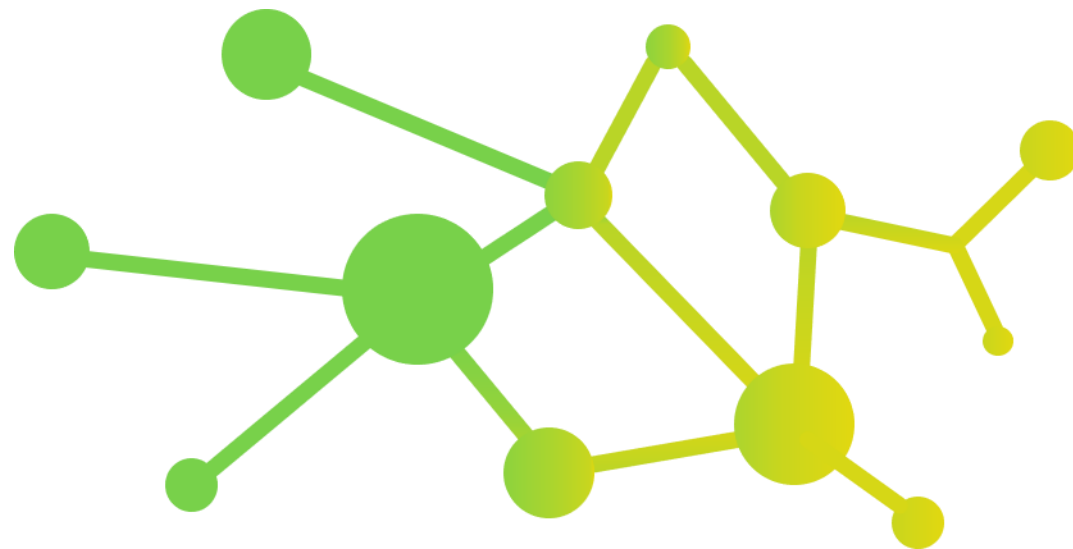


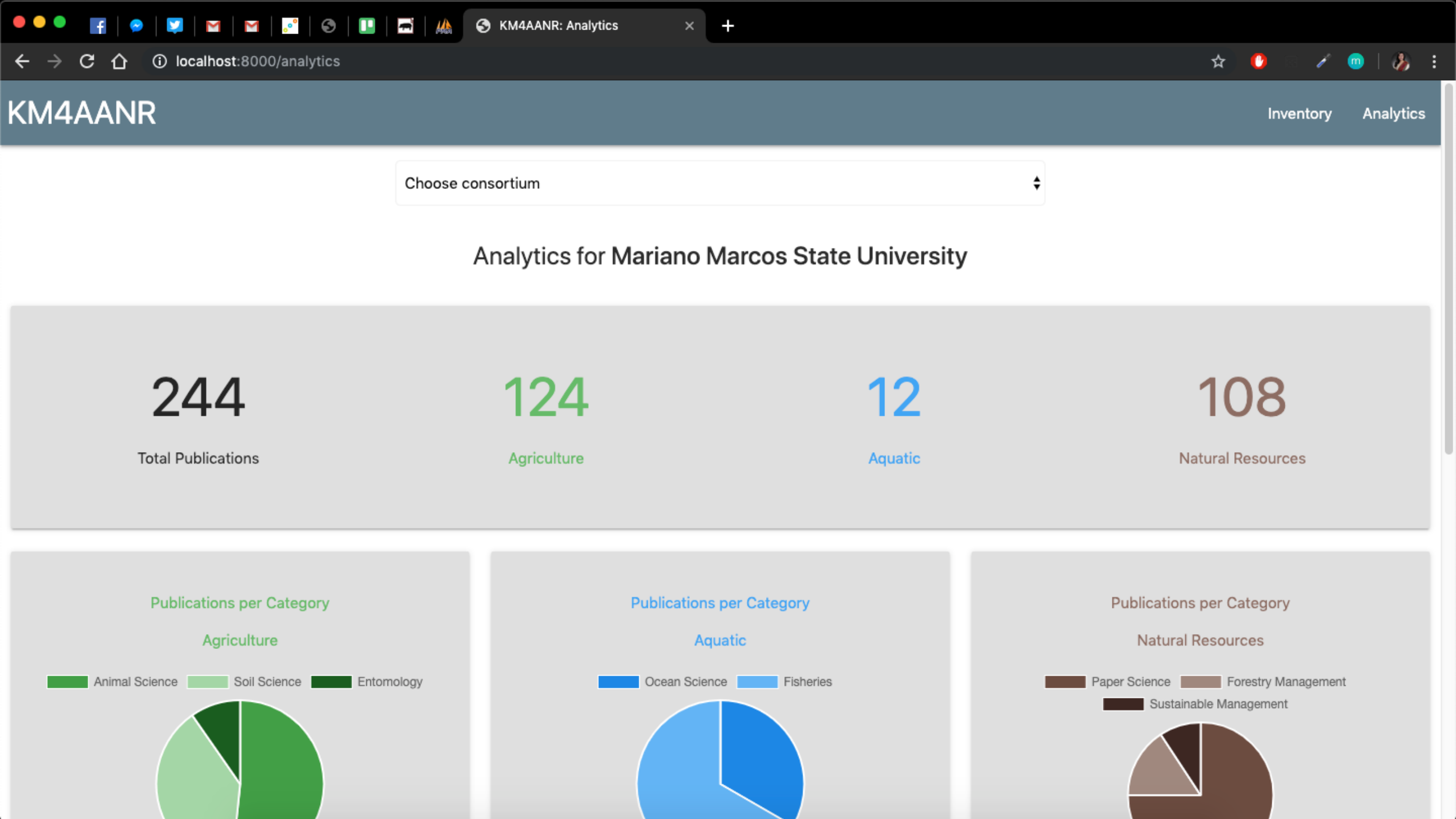
INVENTORY PER CONSORTIUM

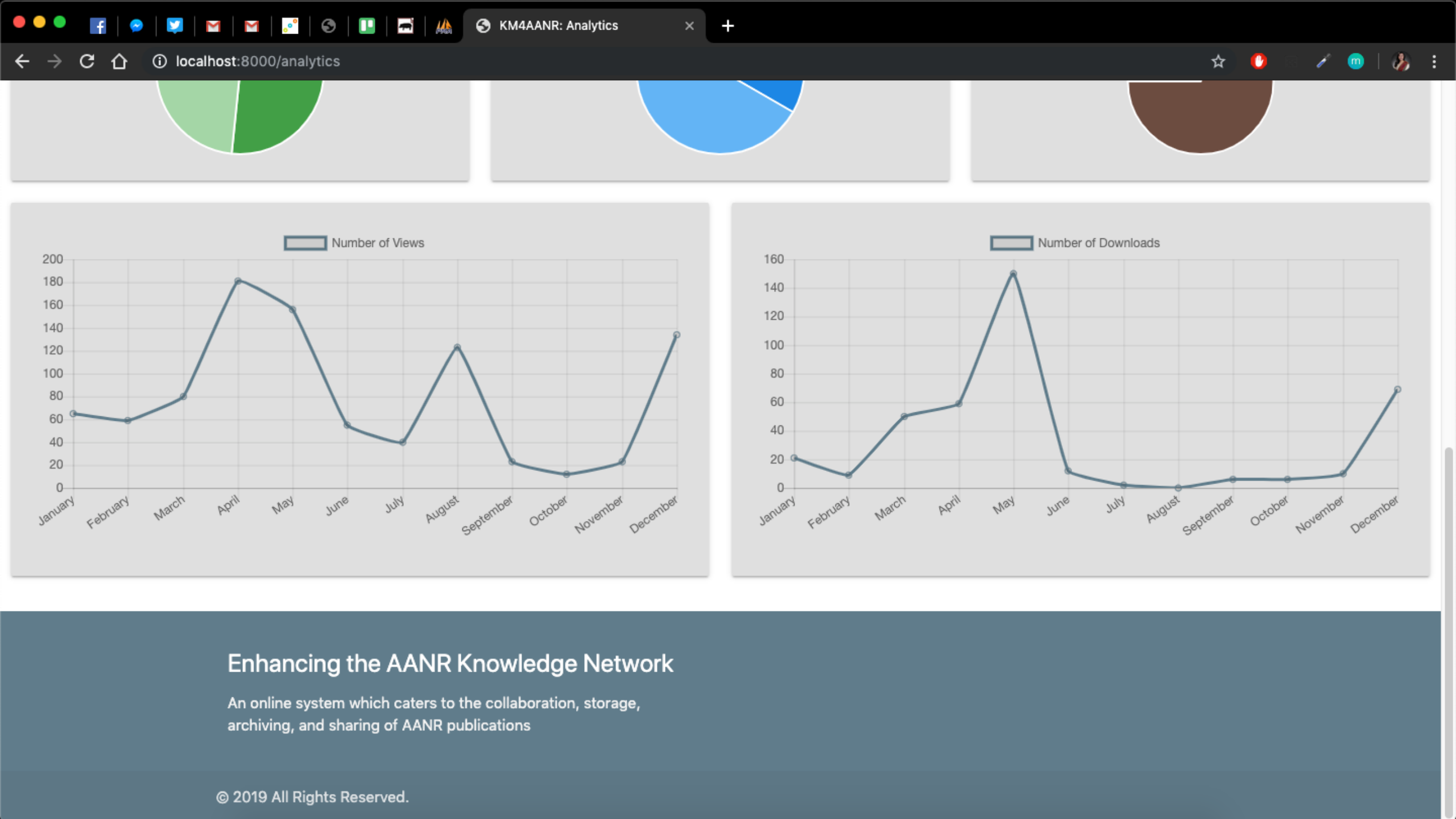




DASHBOARD VIEW



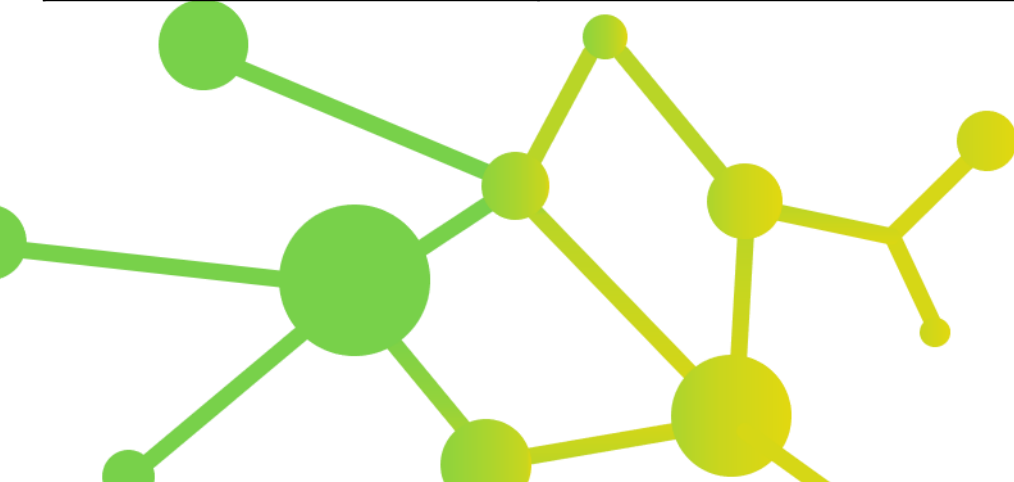




Timeline



Activity	Week 1	Week 2	Week 3	Week 4
Sample Screen				
Development				
Presentation				



Team



About the Proponent

LAUBREY MARIE U. UAL
Software Developer

University of the Philippines Los Baños
BS Computer Science, Class of 2017
Master of Information Technology, First Year

