

CEAL Statistic Database Redesign



System Migration
Proposal

Timing

62.5 working hours. 125 labor hours. Anticipated to finalize within a span of two months.

Research and Study: (2.5 hrs)

Conducting a comprehensive study on the current system.

Data Collection: (4 hrs)

Performing front-end web scraping in Python to gather data.

Data Cleaning: (2 hrs)

Processing and cleansing the collected data to ensure a standardized format.

Amazon Web Service (AWS) Relational Database System (RDS): (15 hrs)

Creating an Entity-Relationship Diagram (ERD) chart and setting up the RDS on an AWS server.

Website Architecture: (4 hrs)

Designing the user experience (UX) and content layout for the website.

Frontend Design: (2 hrs)

Crafting the User Interface (UI) to achieve the desired outlook and feel.

Frontend Development: (15 hrs)

Implementing and coding webpages using Nextjs. Interactive data visualization.

Backend Development: (15 hrs)

Establishing the connection between the frontend and backend, and deploying the website on Vercel.

Ending Tests: (3 hrs)

Conducting various tests, including unit tests, stress tests, function tests, usability tests, and accessibility tests, before proceeding with the final launch.

Third Party Services & Total Cost

→ **AWS Server \$ 685/12mon**

- ✓ RDS Database Host
- ✓ Role-Based Access
- ✓ Data Storage

62.5 Working Hours

\$40 Hourly Rate

→ **Vercel Pro \$ 514/12mon**

- ✓ Website Integration
- ✓ Security and SEO
- ✓ Serverless Function

2 Developers

62.5 x 40 x 2
\$10,000 Total Labor Cost

SUM

USD \$11,199 First Year Cost

USD \$1,199 Annual Cost* from Second Year

*The annual cost is determined using pricing information as of August 16, 2023.
The cost may vary depending on third-party pricing and actual usage.

Tailored Solutions for Your Digital Needs

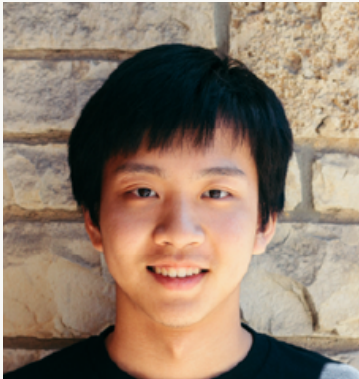


System Migration & Development

Our aim is to assist the CEAL Statistic Committee in utilizing modern web development frameworks and skills to retrieve and cleanse their existing data.

We will then migrate the system to a serverless server, providing advanced performance, stable services, and an improved outlook with responsive design.

Meet the Team



Yifan will be responsible for data cleaning, database migration, and backend development process. As a full stack developer, Yifan is familiar with all kinds of web framework and backend databases. His extensive experience in web developing can be demonstrated by his capability to connect client side to server side applications.

Yifan Huang

Fullstack Developer

<https://www.hivanyf.com> 



Meng's primary responsibilities will encompass website architecture, frontend design and development, as well as overseeing the data visualization process. As an integral team member, Meng will collaborate closely with Yifan to delve into system analysis and information organization.


Meng Qu


System Developer

<https://github.com/Meng-MiamiOH> 

Yifan Huang & Meng Qu

Creating Stunning
Online Experiences

 <https://www.hivanyf.com>

 909-771-8341

 qum@miamioh.edu