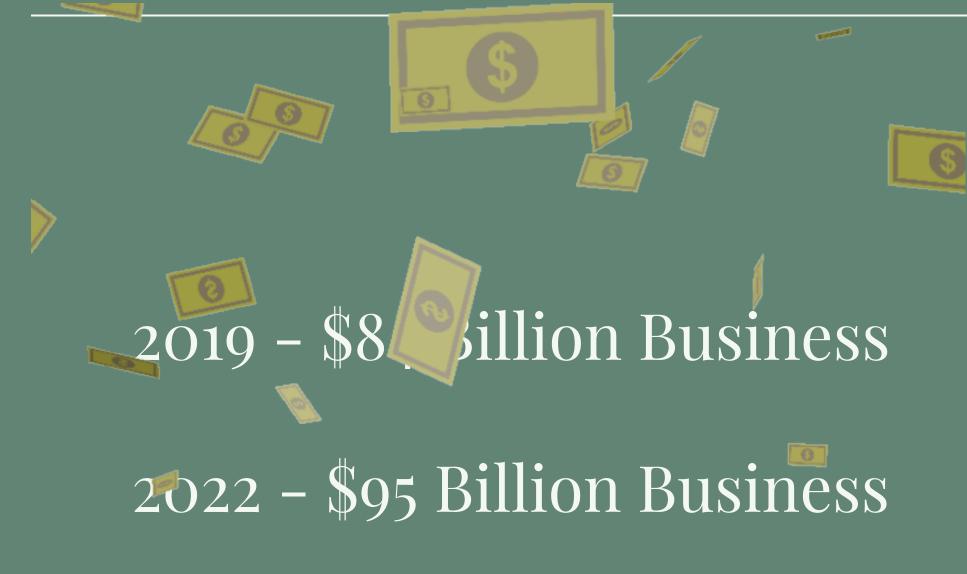


Misinformation and Credible News Analysis Tools

Faculty Mentor: Felicity Escarzaga Project Sponsor:
Jacob Bailly

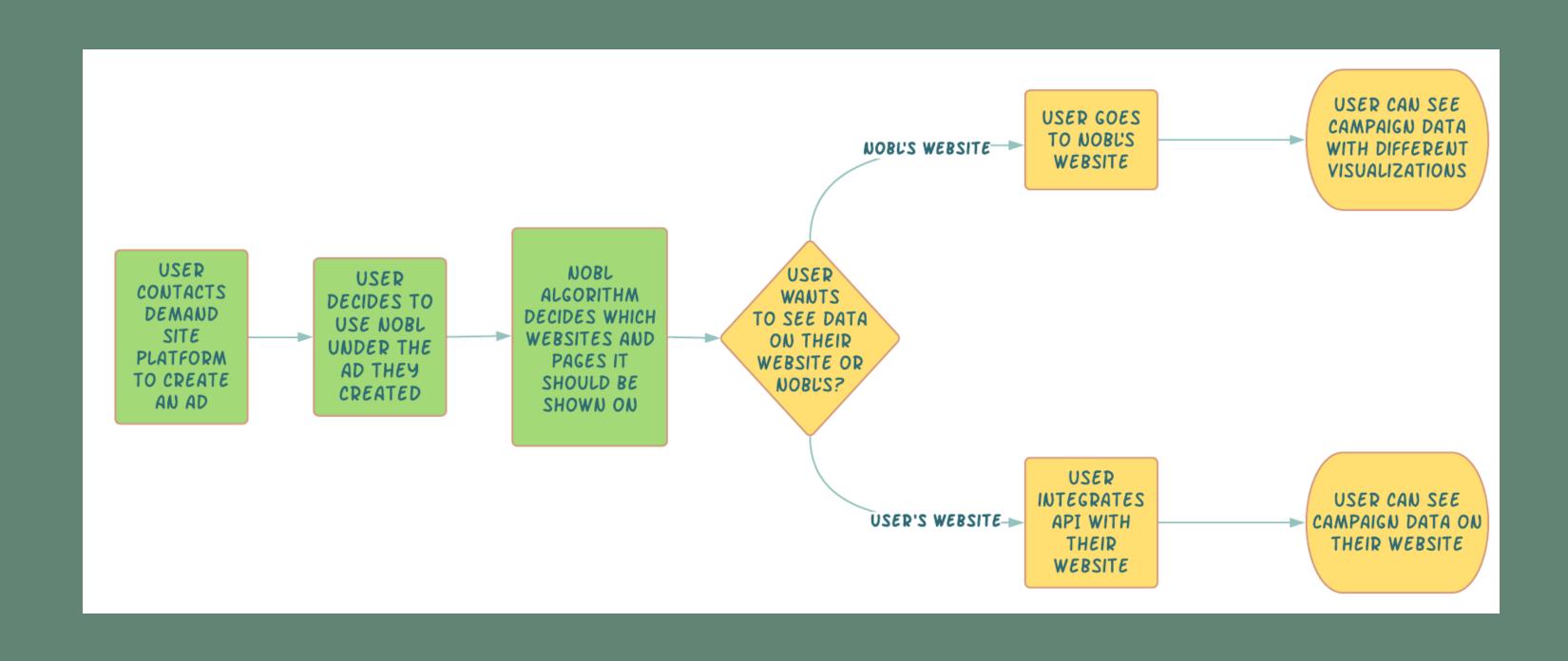
Online Advertising







NOBL Media Workflow

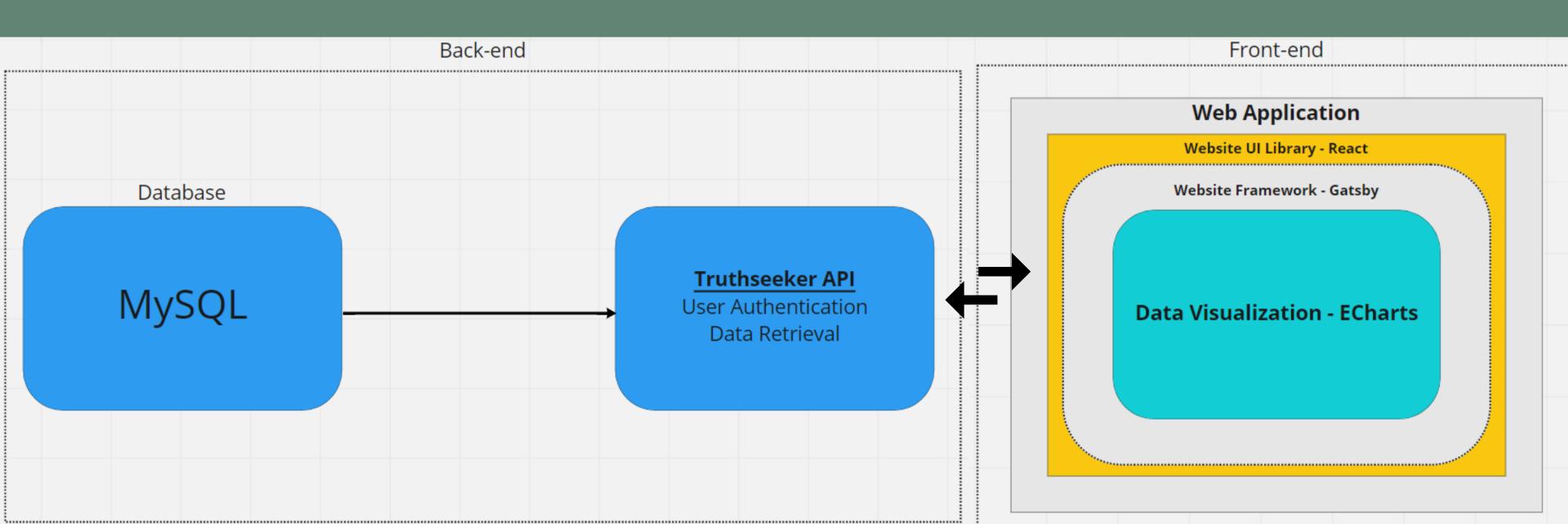


The Problem

- VISUALIZATION
- DATA
 ABSTRACTION
- ADVERTISEMENT DATA

The Solution

- 1. WEB APPLICATION
- 2.API



MockUp Solution

• USER LOGIN

• DATA VISUALIZATION

• EXPORT DATA

• INTEGRATION

CAMPAIGNS / TOPICS

Campaigns

Toxicity

⊕ Topics

Campaign

✓ Get Code

My Campaign: Trial

Campaign ID: 051520-00001

Start Date: 05/15/20

Status: Completed

Brand Value Calculator: S Daily Budget Campaign Cost or SCPM CPM

Most Impressions

Unique URLs: 7,990

Fewest Impressions

Religion & Belief: 437 Unique URLs: 419

Lowest Quality Topic (avg score)

Disaster, accident & emergency... Median = 52; Mode= 69

Highest Quality Topic (avg score)

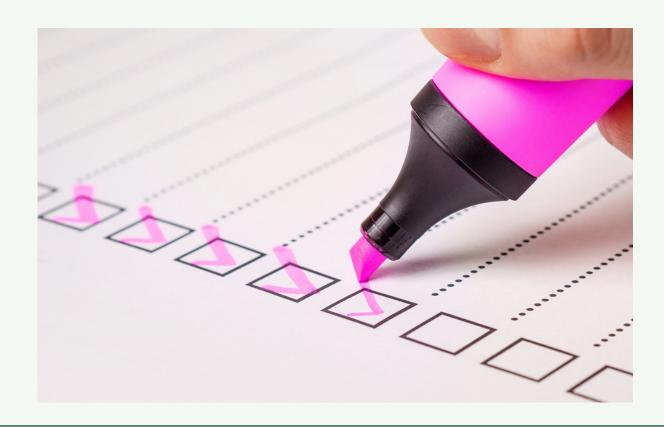
Median = 65; Mode = 74

IMPRESSIONS BY SCORE (79,294 Unique URLs)



Requirements Acquisition

- WEEKLY CLIENT MEETINGS
- RESEARCH



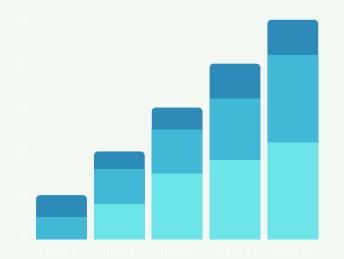


Domain-Level Requirements

API FUNCTION



WEB APPLICATION GRAPHS



EXTERNAL API



Functional Requirements

What functions the system provides

Data Functions

Security Functions



API Data Retrieval



User **Authentication**



Data Exporting



User Invitation



Data Visualization



Performance Requirement

Expectations on the system's performance



Charts/Graphs Rendering Speed - Responsiveness



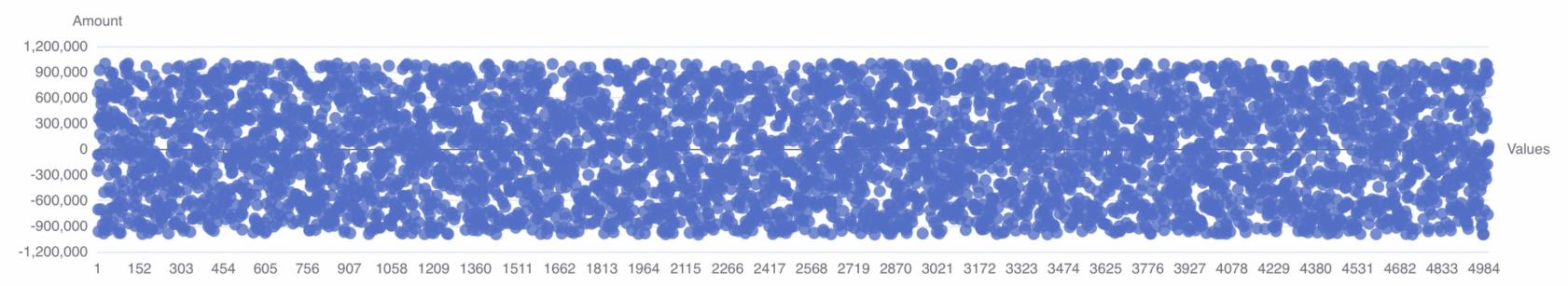
API Response Speed - Avoid bottlenecking website



API Concurrent Use - Capacity for Simultaneous Users

Echarts Rendering Capabilities

Team Truthseeker ECharts Demo



Time To Render: 100 ms

Team Truthseeker ECharts Demo



Time To Render: 72 ms

ENVIRONMENTAL CONSTRAINTS

WHAT THE SYSTEM IS LIMITED TO



• MySQL Database



COMPROMISED AUTHENTICATION

Unauthorized Access to Other Users Accounts.



ATTACK VECTOR FOR DATABASE

Website/API could be used by attackers to gain a foothold in NOBL's internal network.



DATA
MISREPRESENTATION

Dashboard Graphs Could Be Misleading if Designed Poorly



Feasibility

TECHNOLOGIES

- React Website Frontend UI
- Gatsby Static Website Rendering
- ECharts Dynamic Chart Generation
- REST Limit Access to the database
- AuthO Handle Authentication



Plan and Schedule

Team Truthseeker Project Plan





Conclusion

TEAM TRUTHSEEKER

Web App + API

NOBL MEDIA

NOBL A.I.