

Team IQ Design Review 2

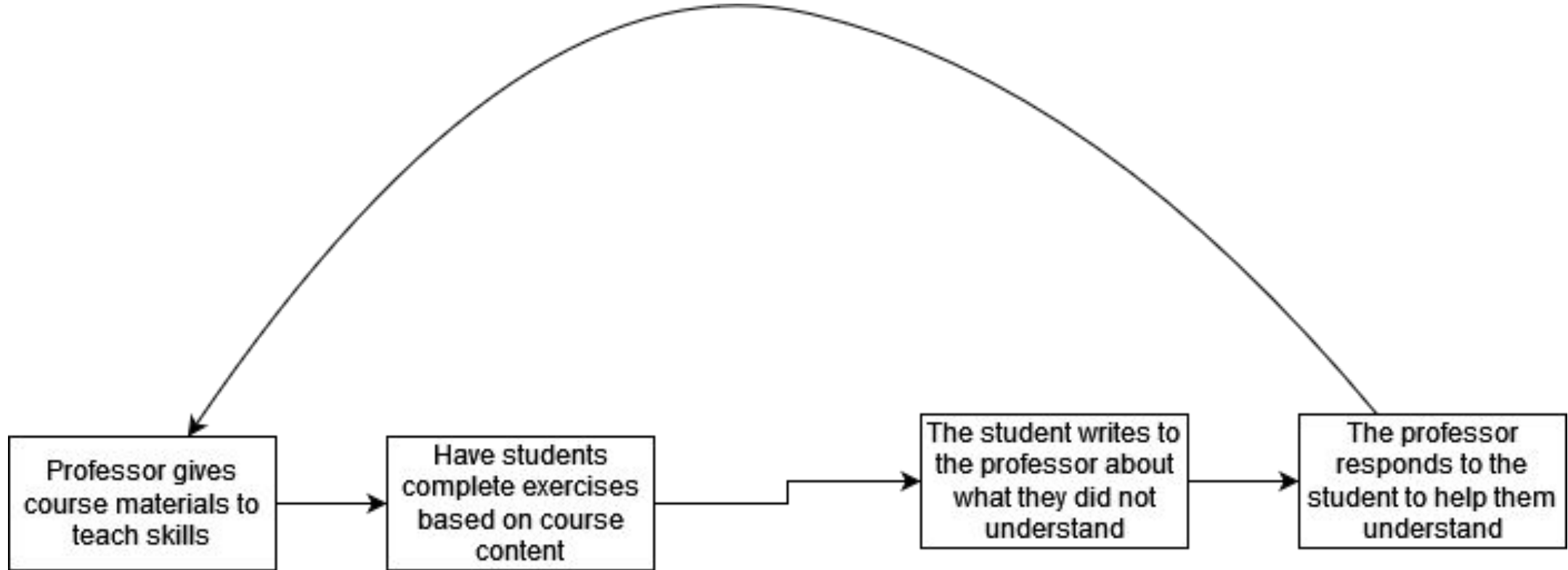
**By Logan Samstag, Nicholas
Persley, Elian Zamora, Robin Pace,
Kristiana Kirk**

Client Information

- Our client and sponsor is Dr. Erika Konrad.
- Professor is faculty at the Department of English at NAU.
- Teaches technical writing courses for those who wish to go into journalism.



Client Workflow



Problem Statement

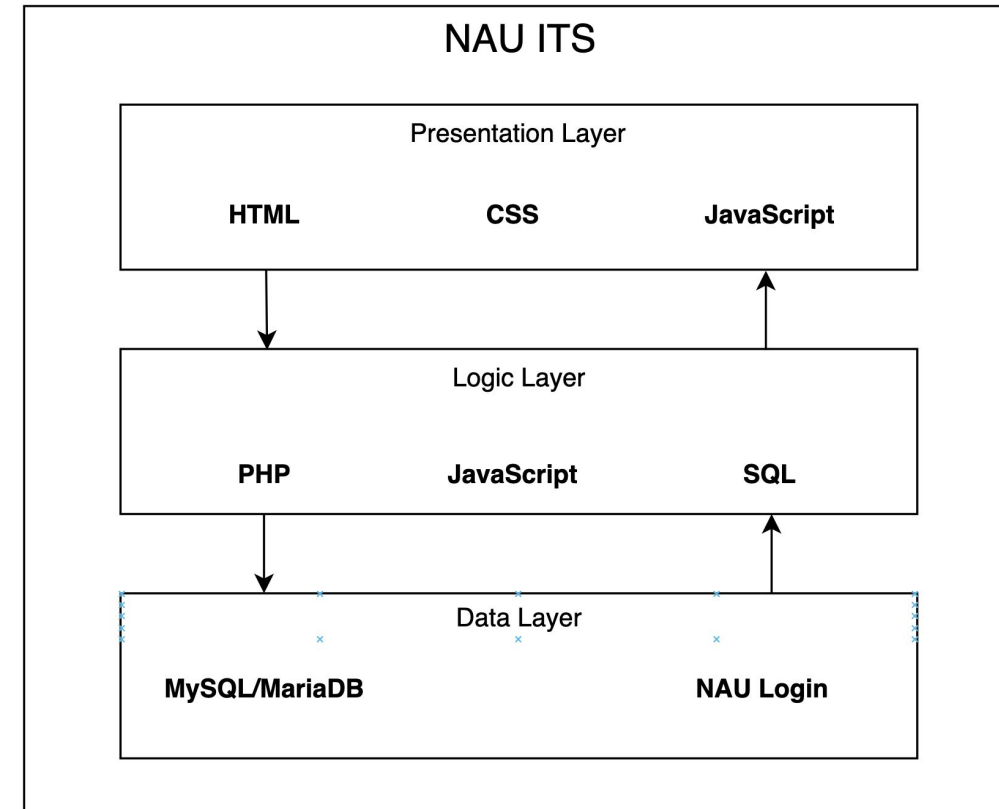
- The main issue that Dr. Konrad is having is on the quiz portion of the diagram
- Our team has found 3 main issues:
 1. Having limited quizzes available and the content of the quizzes not matching the course content
 2. Not all quizzes are free on the New York Times
 3. The students have to submit a screenshot of their results on the New York Times website

Solution Overview

- We need a custom Web Application – RedPen
- This application will replace the use of the NYT version
- Login/privileges for two groups
 - Administrator (only Dr. Konrad)
 - Make custom quizzes for students
 - See the results of students' quizzes (completed or not)
 - Student
 - Take provided quizzes for practice
 - Allow alumni with continuous access to all available quizzes

Implementation Overview

- Key requirements
 - Privileges, student/admin pages
 - Store student/quiz data
 - Free and easy to use
- Use of a multitier (3-tier in our case) architecture
- Use NAU ITS hosting for website and database



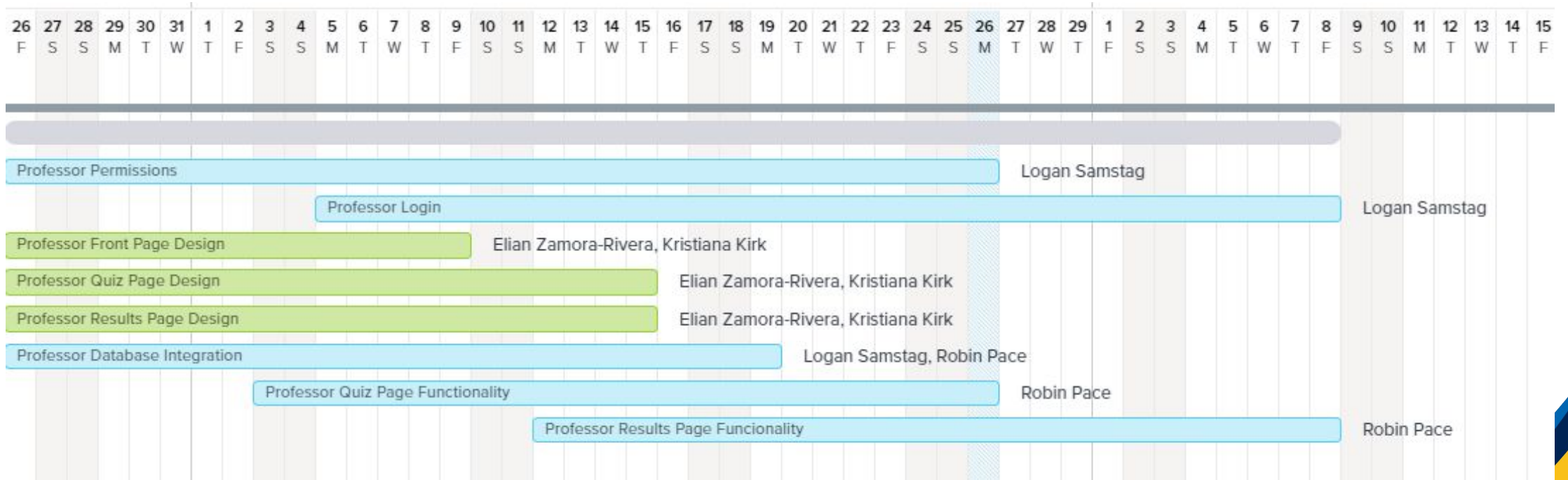
Implementation Details

- Front End Modules
 - User Authentication: Handles user and admin login
 - Quiz Interface: Allows for easy creation of quizzes and display them
 - Stats board: Allows users to view quiz results in a easy way.
- Back End Modules
 - Authentication Management: Manages authentication using NAU server
 - Quiz Management: Allows for questions, answers and scores to be accounted for
 - Data Access: Allows all user/quiz data to be stored in the database.

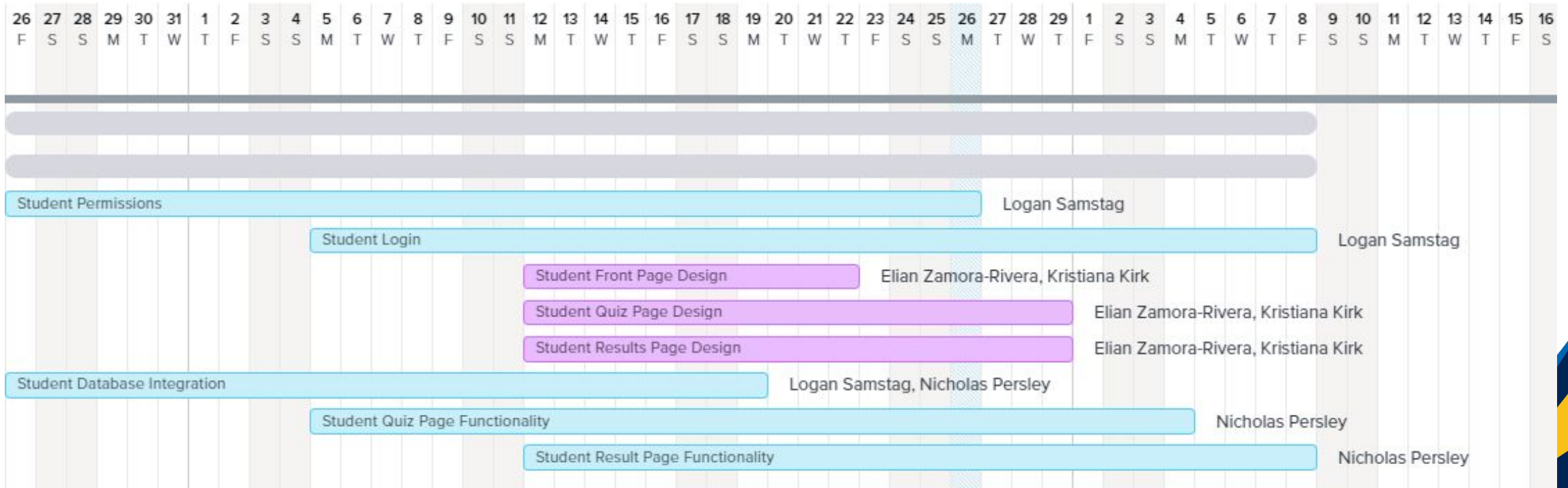
Challenges and Resolutions

- Technological Challenges
 - NAU ITS Outage affected our Database
 - Created a temporary external phpMyAdmin/MySQL server
- Integration Challenges
 - Merging front-end with back-end components
 - HTML with PHP
 - PHP with Javascript
 - A systematic approach to reviewing PHP files
- Risks
 - Database crashing

Schedule



Schedule



Schedule

18	19	20	21	22	23	24	25	26	27	28	29	30	31	1	2	3	4	5	6			
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S			
														↺	☐	⋮						
Professor Quiz Page Testing														Nicholas Persley								
Student Quiz Page Testing														Robin Pace								
Database testing														Kristiana Kirk								
Professor Result Page Testing														Logan Samstag								
Student Result Page Testing														Elian Zamora-Rivera								
Log-in Testing														TeamIQ								

Conclusion

- We are TeamIQ, and we are designing RedPen
- Customizable, Convenient, and Free compared to Copy Edit This!
- With Dr. Erika Conrad, we will be the solution



Questions?