

Team IQ UGRADS

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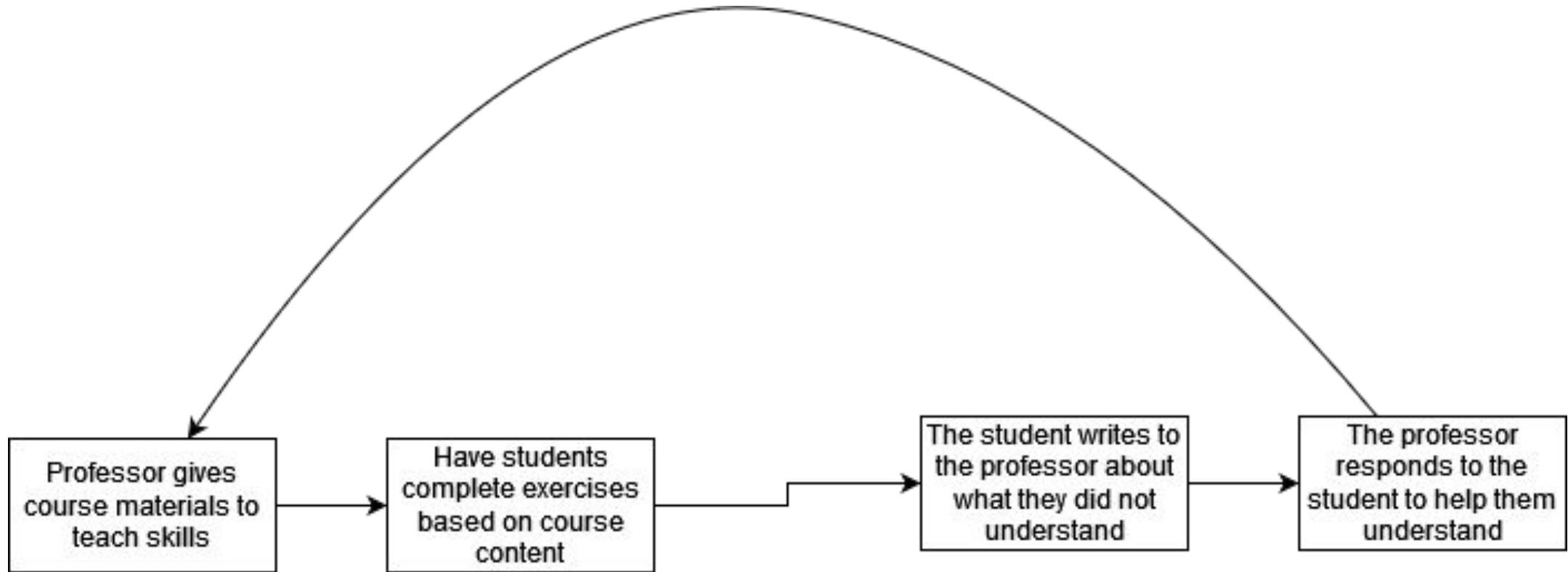
Red Pen

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

What RedPen Offers

First Quiz

Attempt	Question 1	Question 2	Question 3	Question 4	Question 5	Question 6	Question 7	Question 8	Question 9
1	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

Third Quiz

Attempt	Question 1	Question 2	Question 3	Question 4	Question 5
1	TBD	TBD	TBD	TBD	TBD

Konrad Practice Quiz 1

Attempt	Question 1	Question 2	Question 3	Question 4
1	TBD	TBD	TBD	TBD

Usability Quiz

Attempt	Question 1	Question 2	Question 3
1	TBD	TBD	TBD



Professor

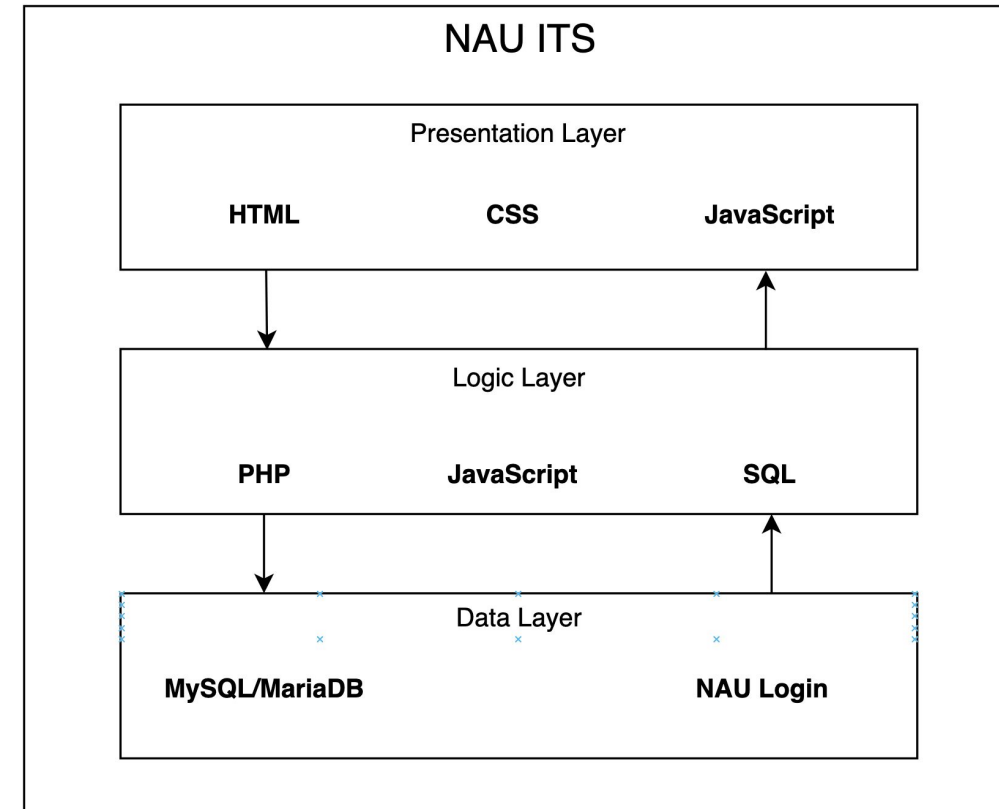
Quizzes

Results

Tags

Implementation Overview

- Key requirements
 - Privileges, student/admin pages
 - Store student/quiz data
 - Free and easy to use
 - Quiz should be interactive
- Use of a multitier (3-tier in our case) architecture
- Client preferred NAU server over other options (free)
- 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.

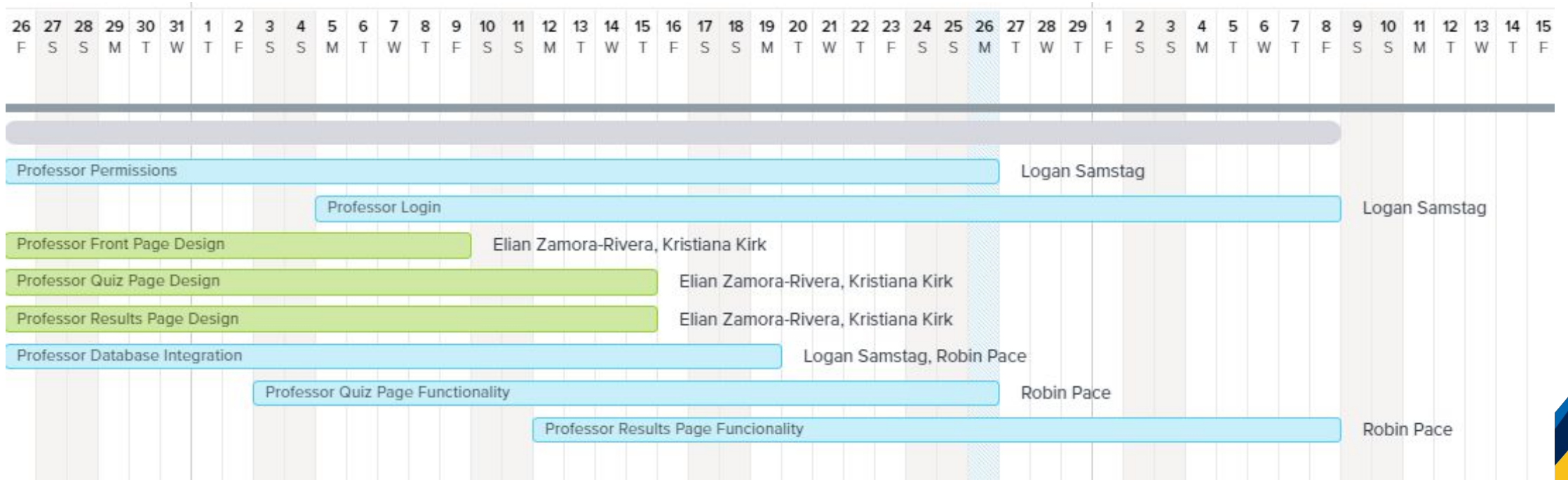
Prototype Review



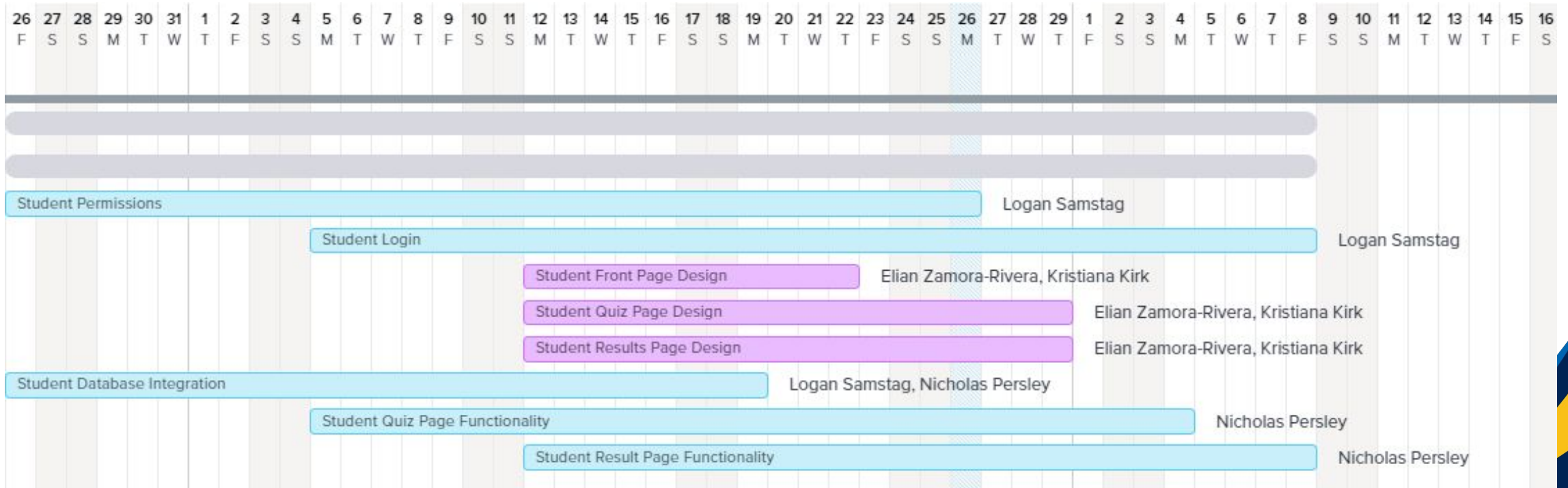
Challenges and Resolutions

- Technological Challenges
 - NAU ITS Outage affected our Database
 - Created a temporary external phpMyAdmin/MySQL server
- Fine details
 - User Experience
 - Careful consideration of user needs and preferences
 - Bigger text, Dark text on light backgrounds
 - Mobile Responsiveness
 - Identified the pages that are not displaying properly
 - Modify layout and design of those pages
- Risks
 - Database crashing
 - Use Copy Edit This Quiz until it is up again
 - RedPen not working correctly
 - Communicate with ITS, but no guarantee

Schedule



Schedule

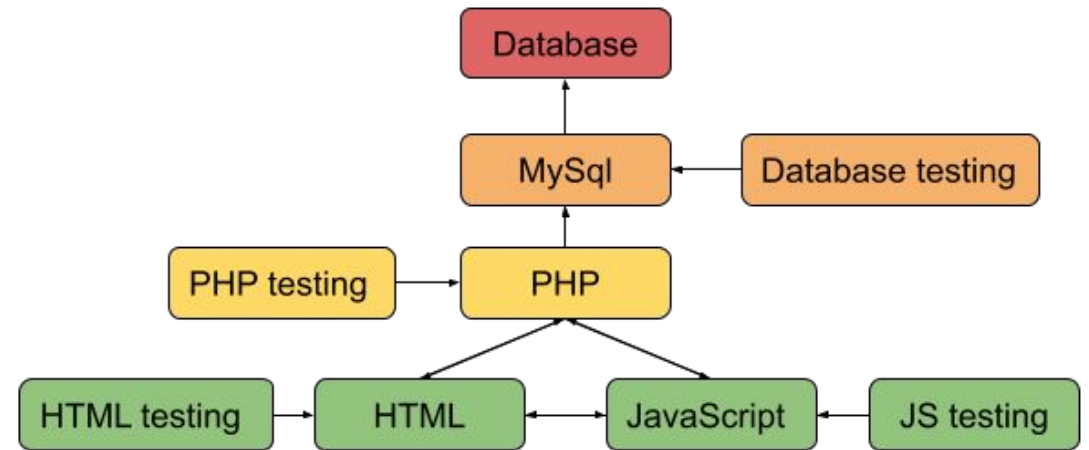


Testing Schedule

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M
Integration Testing																			Robin Pace									
Unit Test																			Logan Samstag, Nicholas Persley									
Usability Test																			Elian Zamora-Rivera, Kristiana Kirk									

Testing

- Usability
 - More Convenient
 - Student Testing
- Integration
 - Edge Cases
 - Inconsistent coding style/structure
- Unit
 - Test individual units



For the Future

- Assign new admin
- Message to Admin on site
- Restricted Student Access

Conclusion

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



Questions?