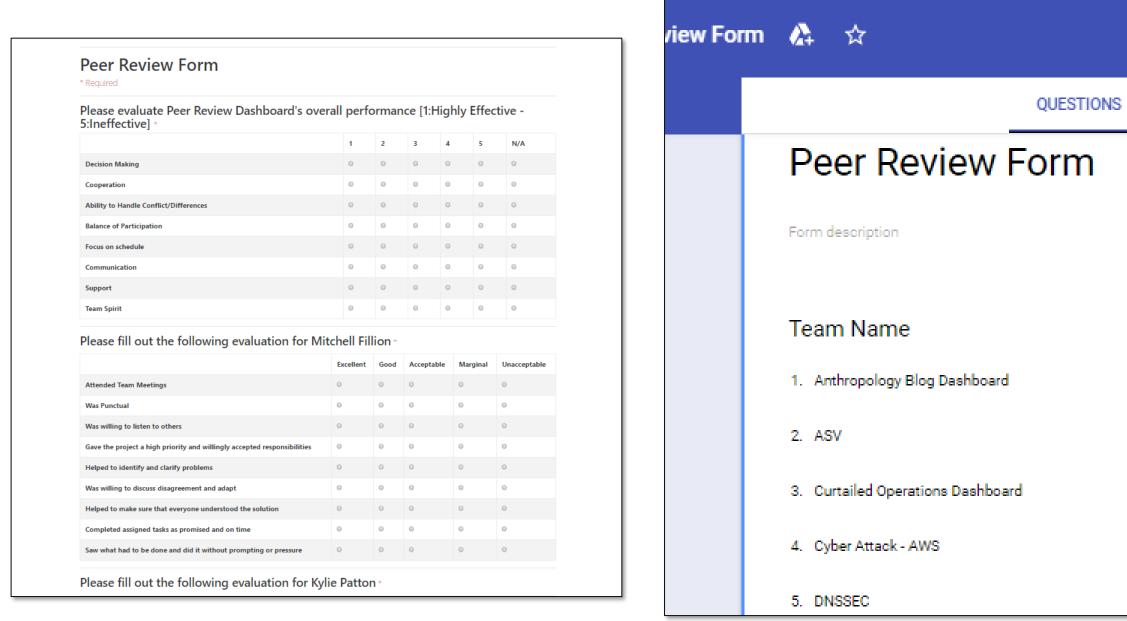


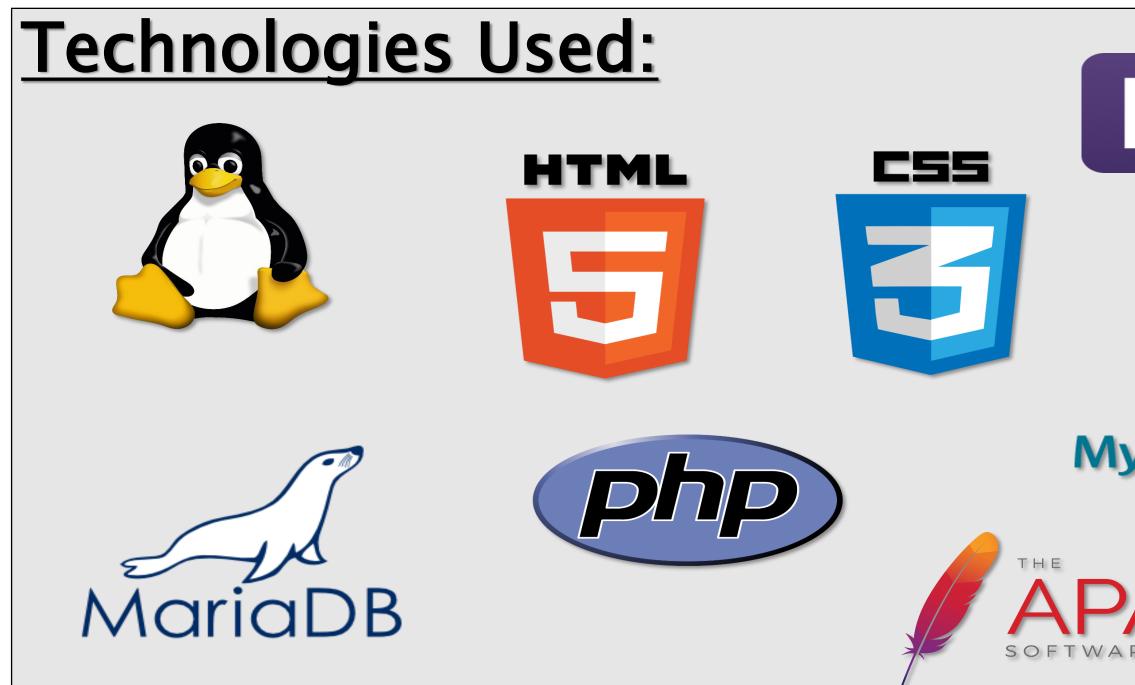
Problem Statement

Google Forms is the current platform for CS/IT Senior Capstone Peer Reviews. This allows for little to no administrative abilities such as searching, scalability, data manipulation, and the like.

Additional Issues with Previous Format

- Google tools only allows for viewing forms by submission \bullet
- No usable analytics for data being collected •
- Need for customized creation, distribution, and analysis of peer reviews •





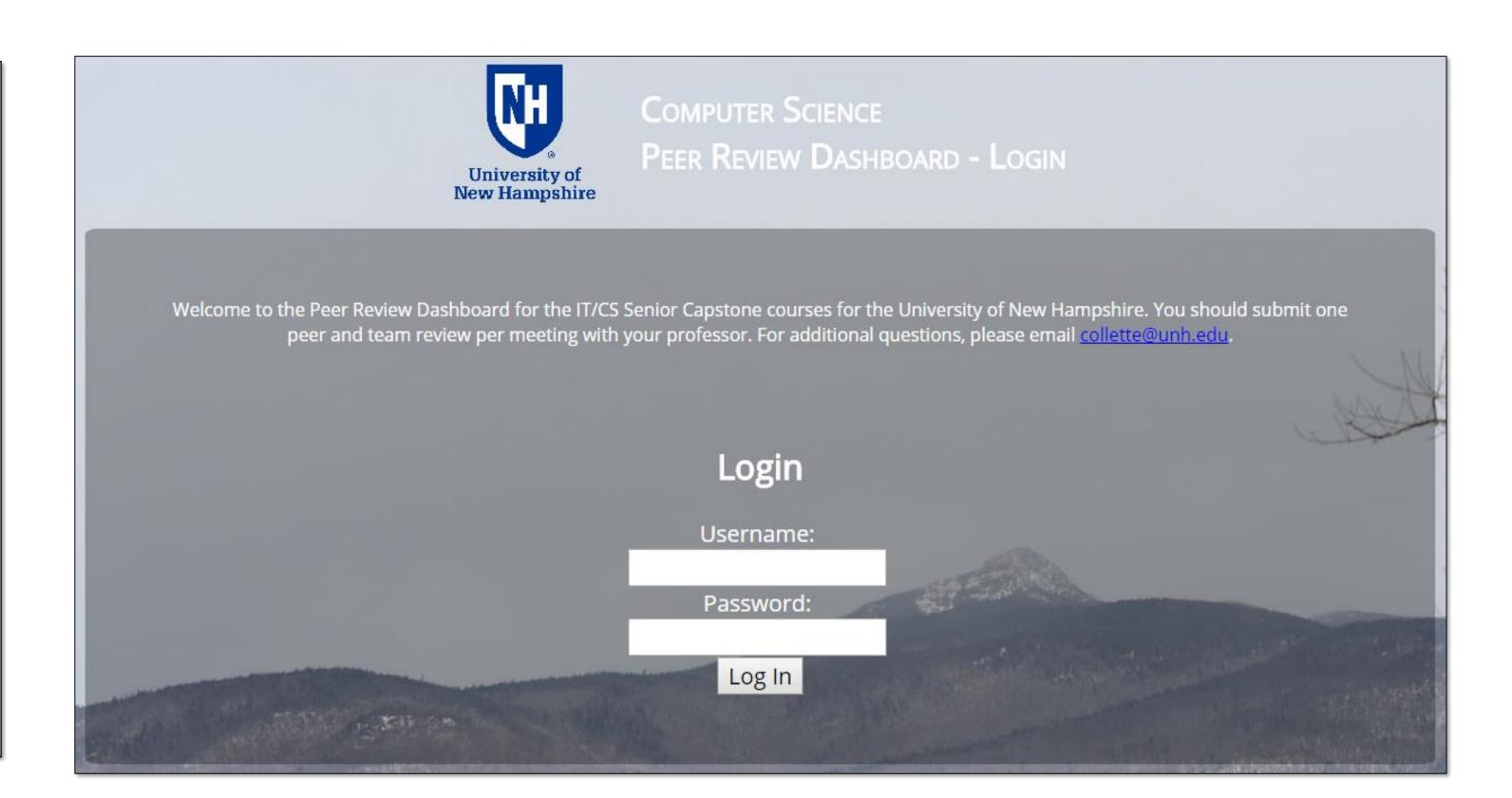
Backups & Reliability

Automated backups – ensures the data stays the way you intended it to.

- Crontab ensures that the backup scripts run reliably and predictably \bullet
- rsync keeps I/O operations low by only copying modified files •

ding incremental file list eated directory /root/serverBackups/data

PEER REVIEW DASHBOARD



🍄 🧿 🌣 Si	<u>Comparison</u>
IS RESPONSES 1	 Old format: Google Form Date exported to an excel sheet Group size and other variables were not scalable No ability to search among reviews No efficient way for an administrator to manage or visualize d New format: Website/Dashboard Unified engine Manage users and teams directly from applicati View responses by team or individuals
	Reviews User and Groups
B	User Management Select an existing user to edit from the dropdown
	Edit User New User
E S	Team Management Select an existing team to edit from the dropdown
IySQL.	Edit Team New Team
ACHE ARE FOUNDATION	Users
	UserIDintPKUsernamevarchar(30)Passwordchar(128)Emailvarchar(30)Namevarchar(30)Namevarchar(30)Administratorenum('false','true')Activeenum('false','true')TeamIDintTeamIDintDateCreateddatetimeDateTerminateddatetime
	A A K A K A TeamPerformance
	EvaluationIDintPKEvaluationIDintPKSourceStudentintFKTargetStudentintFKEvaluationDatedatetimeAttendedMeetingstinyintNWasPunctualtinyintNWillingToListentinyintNGaveProjectHighPrioritytinyintN
s/sec	IdentifiedProblemstinyintNWillingToDiscusstinyintNHelpdedOthersUnderstandtinyintNCompletedPromisedTaskstinyintNTookInitiativetinyintN



Authors: Mitchell Fillion & Kylie Patton Project Sponsor: Collette Powers

Solution

- CS professors will be administrators •
- web application
- Administrative portal will have the following capabilities: •
- A view of summary review data
- Management of users and teams
- Export data efficiently
- Various statistic retrieval
- And more!

	Reviews User and Groups
	Peer Review Dashboard
scalable nanage or visualize data irectly from application	View Reviews
	By Team: By Student:
	© Kylie & Mitch 2016
Welcome, kylie! 👻	
	<u>Security</u>
· · · · · · · · · · · · · · · · · · ·	The Peer Review Dashboard was built with securit

varchar(1024) N

enum('false','true')

PK FK

EK

- Secured with the latest standards to keep your data safe
- Encrypted connections using TLS 1.2 authentication protocol, ECDHE_RSA with P-256 key exchange, and AES_256_GCM ciper
- Advanced controllers prevent unauthorized access to web pages
- Backups are encrypted to help prevent data breaches
- Trust certificate: InCommon RSA Server CA

Next Steps: Optimization & Usability

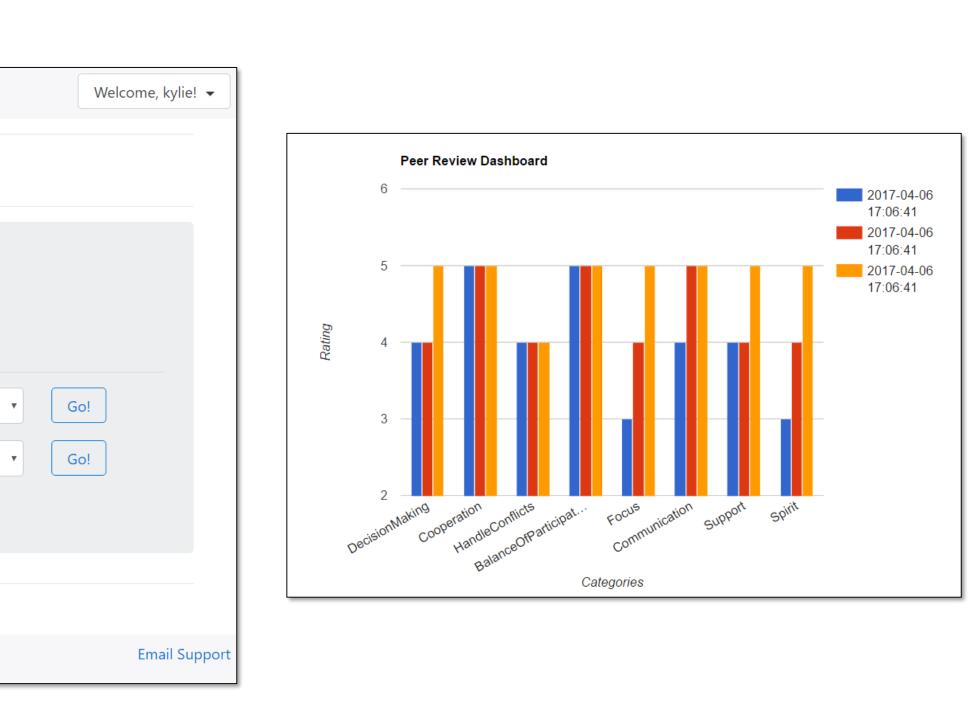
Optimization

• Code will be revised and optimized to reduce server overhead

Usability

- Application will be deployed to small test groups to determine areas of improvement
- Application will be revised to enhance usability based on user feedback •

Administrators will have the ability create and share review questionnaires with their students visa a secure



- ty in mind.