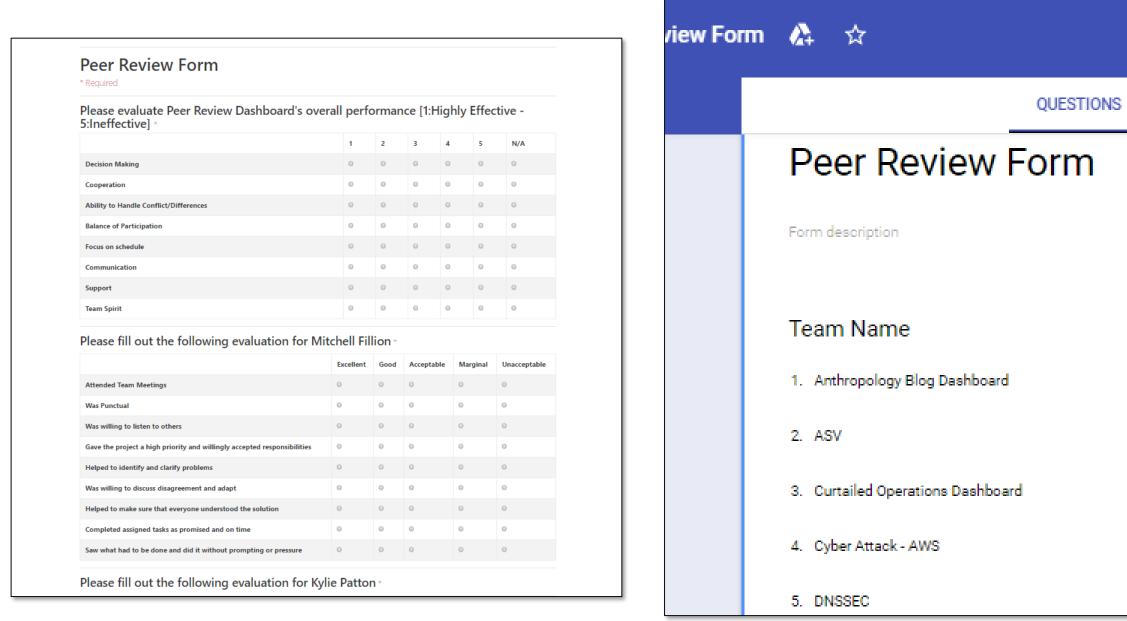


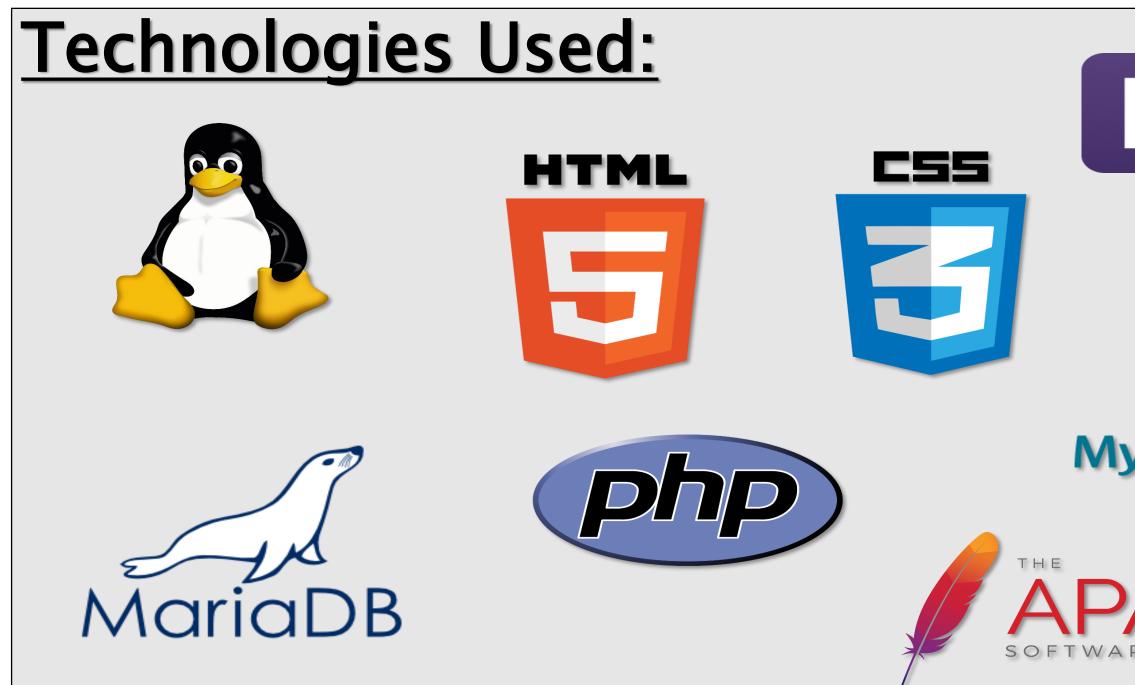
### **Problem Statement**

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 •





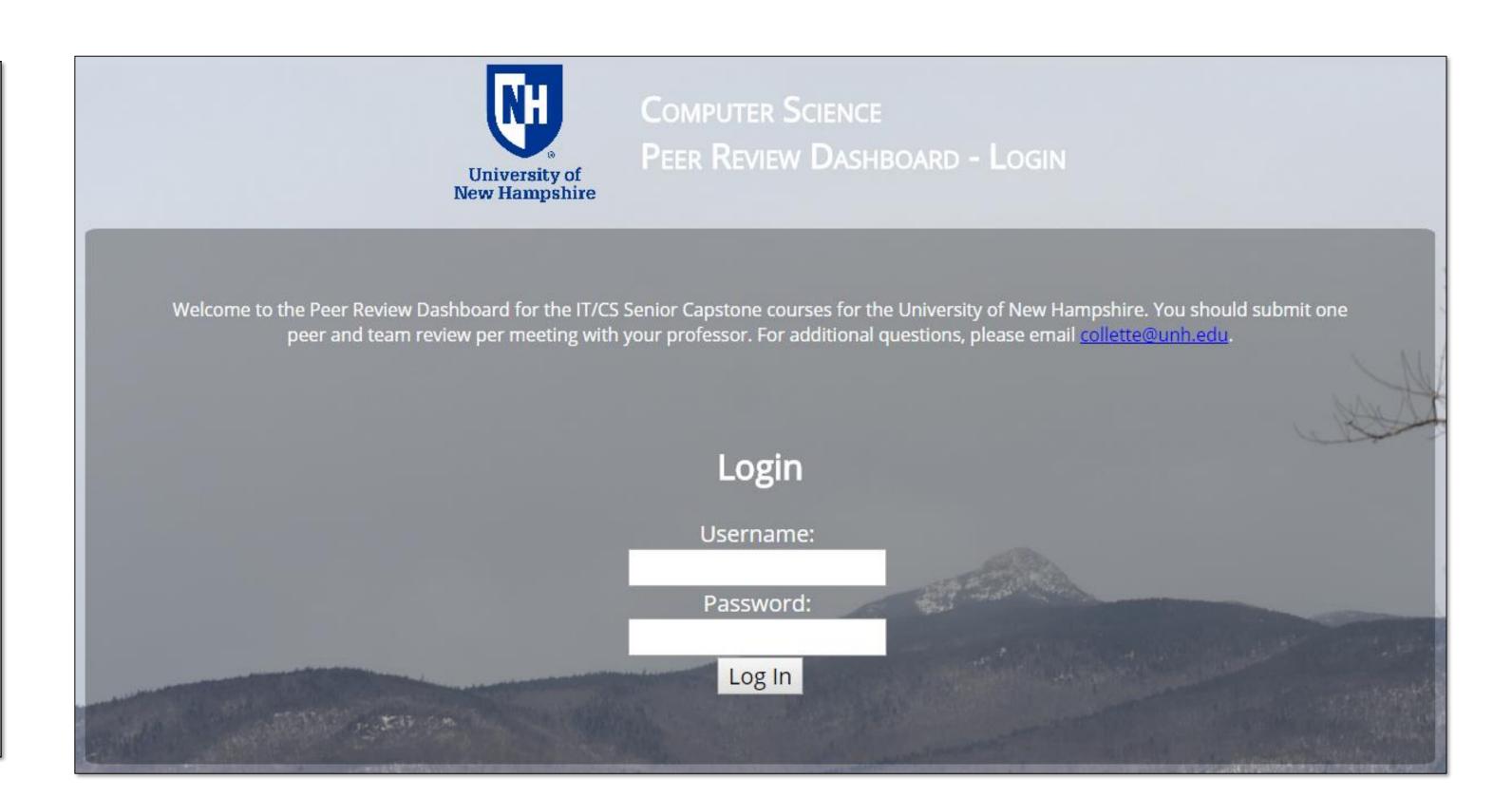
### **Backups & Reliability**

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	<ul> <li>Old format: Google Form</li> <li>Date exported to an excel sheet</li> <li>Group size and other variables were not scalable</li> <li>No ability to search among reviews</li> <li>No efficient way for an administrator to manage or visualize d</li> <li>New format: Website/Dashboard</li> <li>Unified engine <ul> <li>Manage users and teams directly from applicati</li> <li>View responses by team or individuals</li> </ul> </li> </ul>
	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

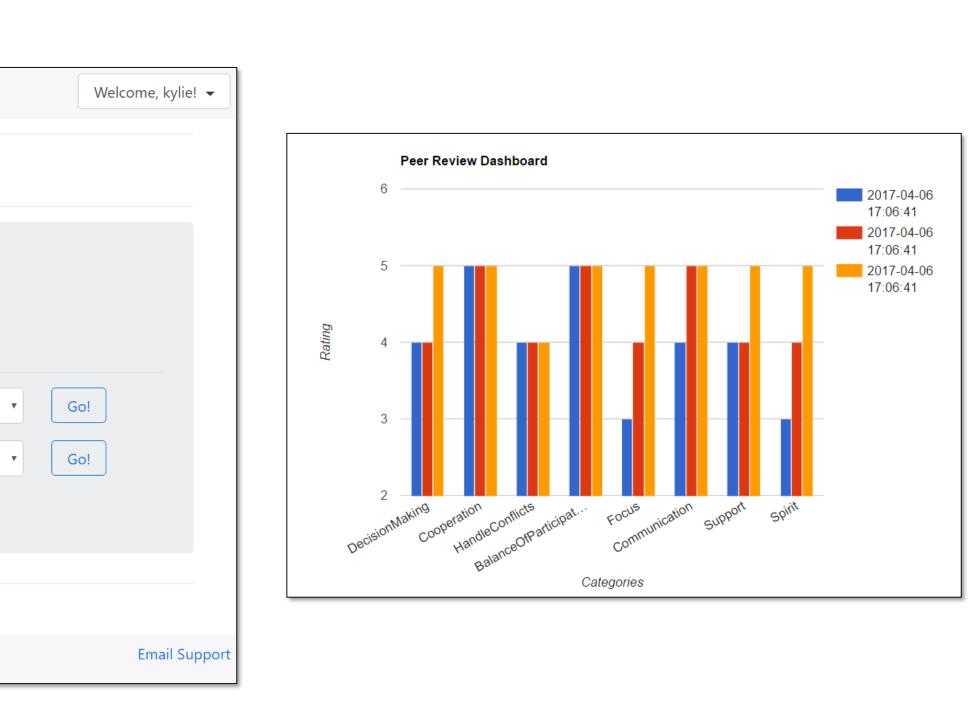
### Optimization

• 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.