

# Online Interactive Quiz System (With Disconnection Handling and Network Status Feedback)

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# Who Are Our Users?

- USF Canvas Users
- Expandable To Online Quiz System Users

# What Is the Problem?

- The current quiz system doesn't provide informative feedback concerning connection status
- The current quiz system doesn't have technologies in place to allow for the seamless reconnection and continuation of the online quiz experience

# Why Is This a Problem?

- Connection Issues Negatively Affects Users' Mental State
- Disconnections Negatively Affect The Accurate Evaluation Of Student Ability
- Adds Unnecessary Work For Both Teachers And Students In Remediating Technical Issues With Examinations

# Our Solution

- An examination administering web application with:
  - Interactive feedback on the network connection status
  - An offline quiz mode
  - Synchronization to allow for the seamless continuation of a quiz despite network state

# Interface

BEGIN QUIZ



Show Timer

## Question 1

The Question

.....

- ☐ Answer 1
- ☐ Answer 2
- ☐ Answer 3
- ☐ Answer 4

Connection Status:



Submit





Hide Timer

Time Remaining:

9:30

Connection Status:



## Question 1

The Question

.....

- ☒ Answer 1
- ☐ Answer 2
- ☐ Answer 3
- ☐ Answer 4



Lost internet connectivity - you may continue until time expires



Submit



Hide Timer

Time Remaining:

9:30

Connection Status:



## Question 1

The Question

.....

- ☒ Answer 1
- ☐ Answer 2
- ☐ Answer 3
- ☐ Answer 4



internet connection has been restored



Submit



You are currently offline

Connection Status:



Please keep this window open until internet  
connectivity has been restored



You are back online

Connection Status:



Submitting quiz



Score: 100 out of 100

Duration: 9 minutes

### Question 1

The Question

.....

- 
- ☒ Answer 1
- ☐ Answer 2
- ☐ Answer 3
- ☐ Answer 4