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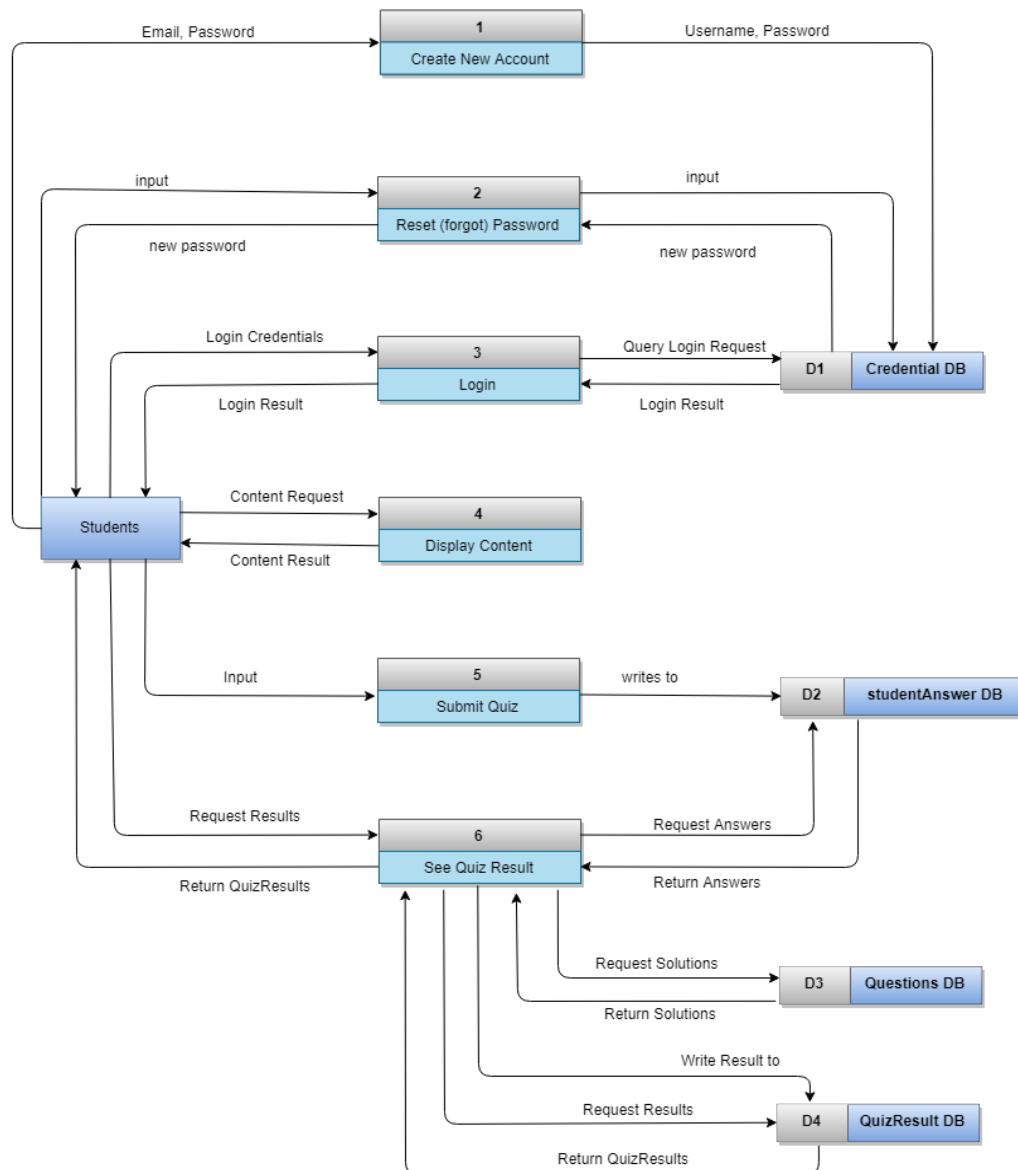
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1.0 INTRODUCTION

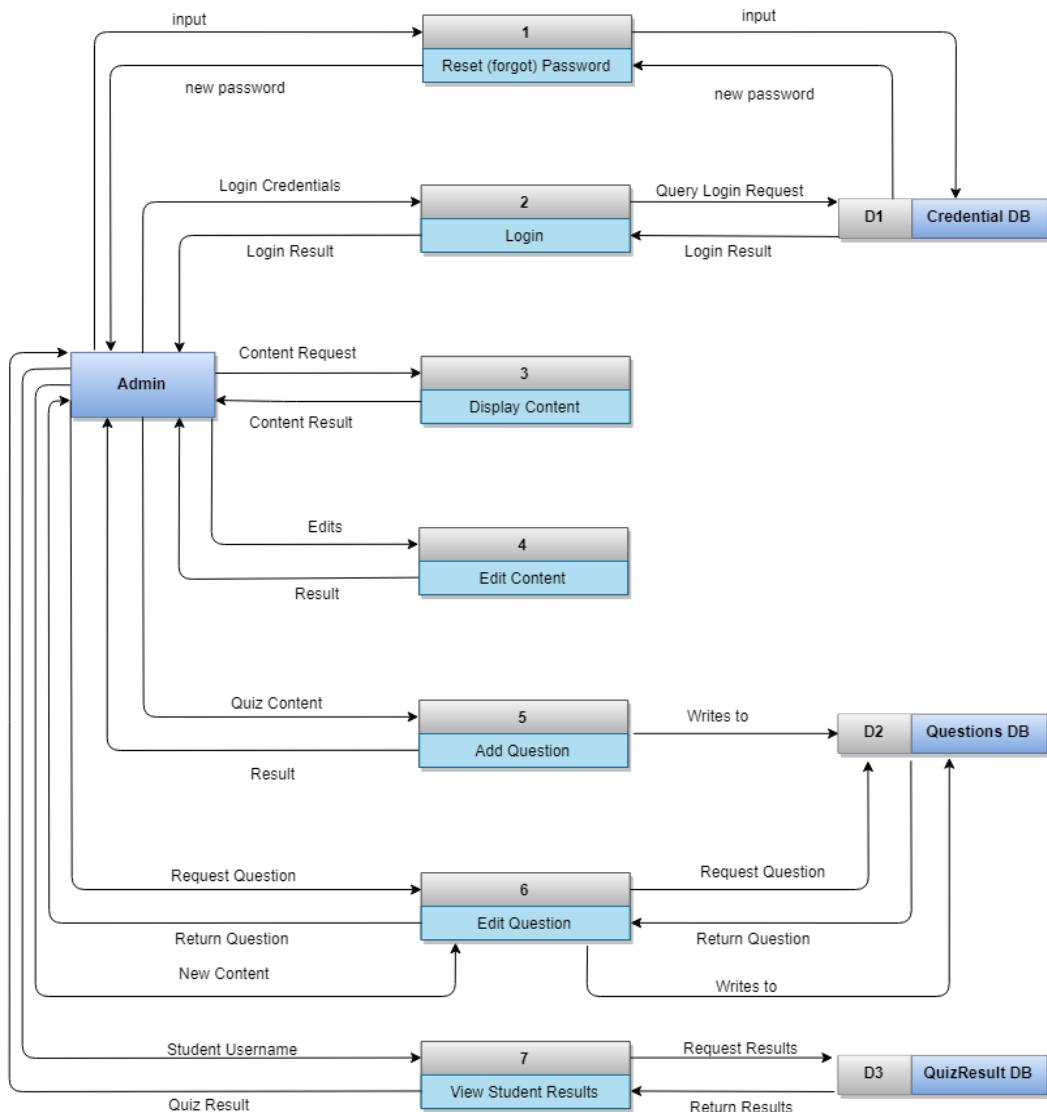
The Detailed Design Report (DDR) will outline the initial design to be used for the Academic Misconduct Online Application (AMOA). This DDR includes revisions and elaborations on previous designs presented in the System Study Report. The user interface has been expanded and the backend data structure revised.

2.0 REFINED DATA FLOW DIAGRAMS

Student User:



Admin User:

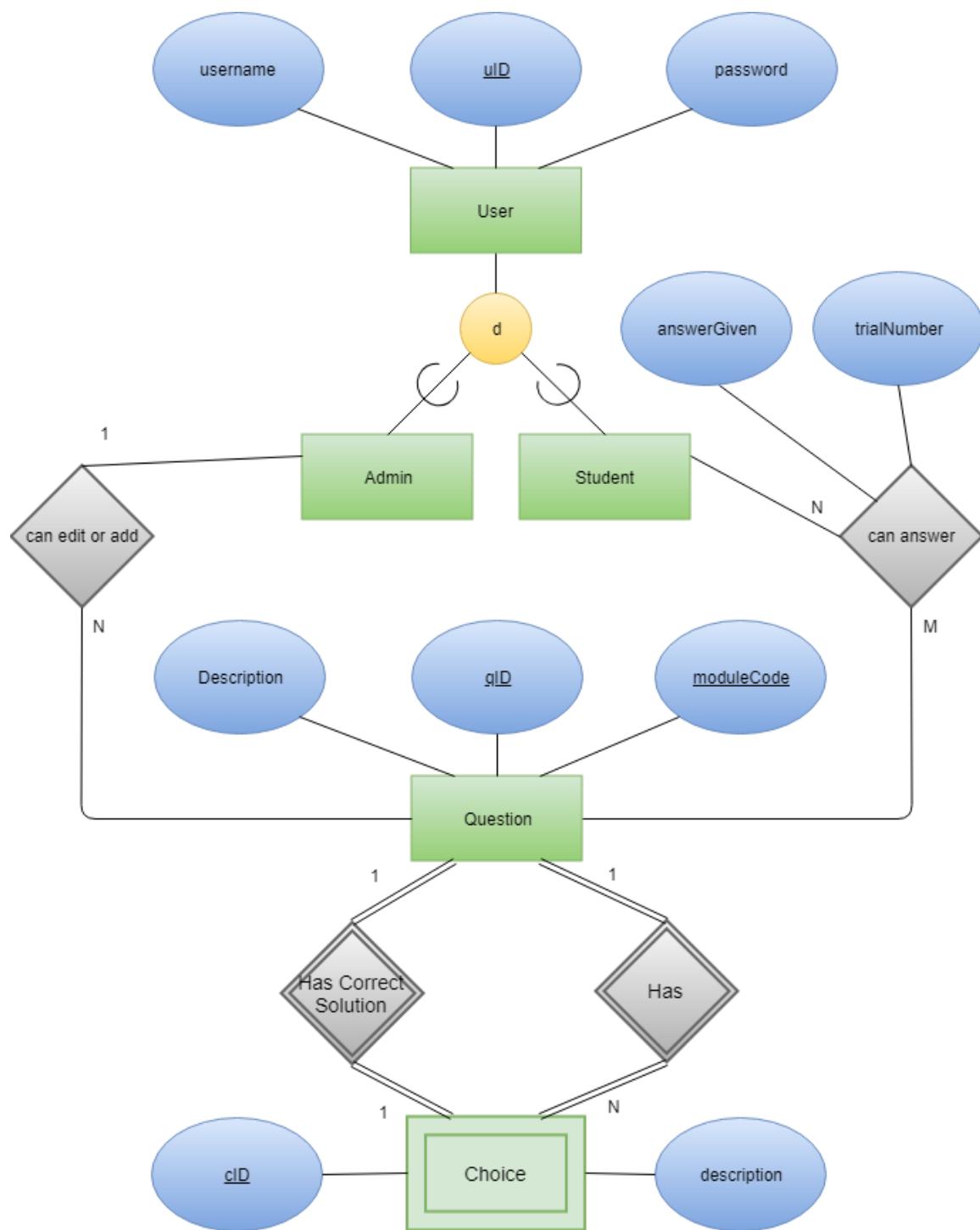


3.0 ENTITY RELATIONSHIP DIAGRAM

3.1 ASSUMPTIONS

MongoDB, being a NoSQL language, does not have joins. Instead, we will use embedded and referenced documents. Embedded documents have better performance than referenced ones. We will assume all questions are multiple choice with one correct answer.

3.2 ERD



Note: User might need a 'role' attribute to identify a student or admin account. Admin needs to use an email account as the username. For the certificates, may need to ask student for first name and password or you could add a name attribute.

4.0 DATA MODEL

4.1 DOCUMENT MODEL

4.1.1 SCHEME:

```
question: {  
    qId: Integer,  
    moduleCode: String,  
    description: String,  
    correctID: Integer,  
    choice: {  
        cId: Integer,  
        description: String  
    }  
}
```

```
user: {  
    uId: String,  
    password: String,  
    username: String,  
    type: String,  
    answer: {  
        qId: Integer,  
        cId: Integer,  
        trialNumber: Integer  
    }  
}
```

4.1.2 SAMPLE DATA:

```
question: {  
    qId: 1,  
    moduleCode: "1",  
    description: "this is sample question",  
    correctId: 2,  
    choice: [{  
        cId:1,  
        description: "This is sample answer"  
    }, {  
        cId:2,  
        description: "This is sample answer 2"  
    }]  
}
```

```

user: {
  uId: 1,
  password: "frevfvvd23egfe",
  username: "xyz",
  type: "student",
  answer: [ {
    qId:1,
    cId:3,
    trialNumber:1
  }, {
    qId: 2,
    cId: 4,
    trialNumber: 1
  }, {
    qId: 3,
    cId: 2,
    trialNumber: 1
  }
]
}

```

4.2 LIST OF FUNCTIONAL DEPENDENCIES

uID -> username
 uID -> password
 qID, moduleCode -> description
 cID -> description
 uID, trialNumber, qID, moduleCode ->
 answerGiven

4.3 DATA DICTIONARY

User:

Name	Alias	Description	Format	Size	Examples	Range	Notes:
uID		The primary key of the user.	integer	4 bytes	2001, 10, 20	0 - 65535	

username		The user's username.	text	7	lastname-f@webmail.uwinnipeg.ca	UW webmail address	
password		The user's password.	text	20	password1	minimum 20 chars	
type		identify user roles					

Student Question Relationship:

Name	Alias	Description	Format	Size	Examples	Range	Notes:
sID		The primary key of the user.	integer	4 bytes	2001, 10, 20	0 - 65535	
answerGiven		ID for the choice that student picked	integer	30	0: True 1:False 2: none of the above 3: all of the above	Minimum of 2 solutions for each question.	
trialNumber		identifier of each trial	integer	2	1,2,3	0 - 999 no limit	
qID		the primary key of the question	integer	4 bytes	2001, 10, 20	0 - 65535	
moduleCode		a code for the module	text	50	AM, PLGM, CHT		

Question:

Name	Alias	Description	Format	Size	Examples	Range	Notes:
qID		The primary key of the question.	integer	4 bytes	2001, 10, 20	0 - 65535	
Description		The question the student must answer.	text	250	Is this plagiarism or cheating?		

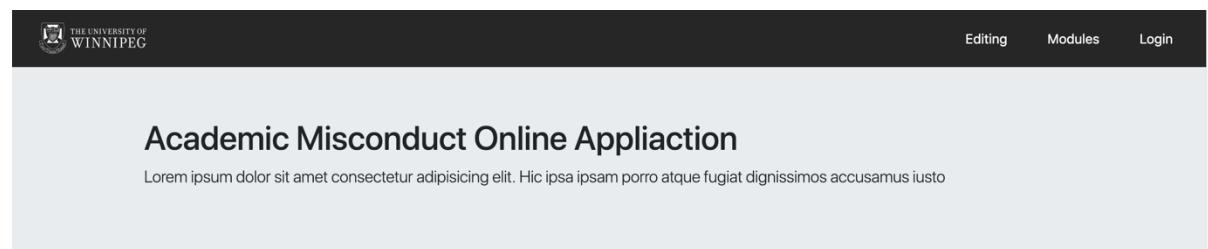
solutionID		The correct solution to the question.	integer	4 bytes	0: True 1:False 2: none of the above 3: all of the above		
moduleCode		A code that shows which module the question belongs to.	text	7	AM, PLGM, CHT		

Choice:

Name	Alias	Description	Format	Size	Examples	Range	Notes:
qID		The primary key of the question.	integer	4 bytes	2001, 10, 20	0 - 65535	
cID		The primary key of the choice.	integer	4 bytes	2001, 10, 20	0 - 65535	
description		The value of the choice.	text	250	TRUE		

5.0 SCREEN DESIGN

5.1 HOME PAGE:



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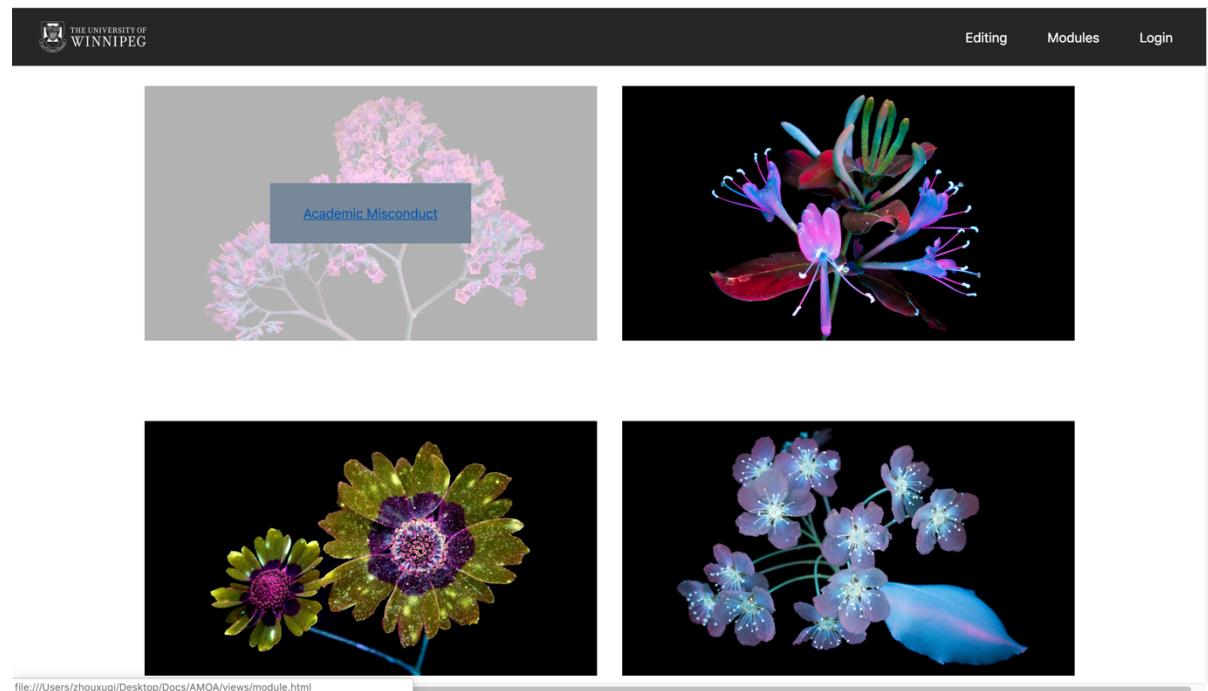
Editing Modules Login

Academic Misconduct Online Appliaction

Placeholder text: Lorem ipsum dolor sit amet consectetur adipisicing elit. Hic ipsa ipsam porro atque fugiat dignissimos accusamus iusto

What you will learn

Placeholder text: Lorem ipsum dolor sit amet consectetur adipisicing elit. Hic distinctio aliquam delectus minima excepturi error, culpa, totam atque dolore dolorem earum impedit laboriosam repellat natus autem architecto. Fuga rem ex fugit eos quas voluptates inventore dicta et, suscipit, consectetur voluptatum aut labore esse similique? Alias cum blanditiis ipsum voluptate inventore amet veniam fugiat. Necessitatibus porro saepe veritatis praesentium. Odit, fuga dolorum suscipit veritatis, expedita cupiditate exercitationem optio adipisci voluptas nostrum iure earum possimus commodi voluptatem architecto, nesciunt reprehenderit placeat vel dolor nemo modi. Consequatur ipsum debitis, natus officia magnam error voluptatem architecto impedit delectus distinctio consectetur perferendis optio voluptas quia.



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Editing Modules Login

Academic Misconduct

file:///Users/zhouxuqi/Desktop/Docs/AMOA/views/module.html

5.2 LOGIN PAGE:

AMOA Login

Email address
name@webmail.uwinnipeg.ca

Password

Forgot Password?

Login

Create Account

5.3 MODULE PAGE:

There's no two ways about it, being suspected of academic misconduct is serious and stressful. The UWSA's VP Student Affairs is familiar with the policy and procedures regarding how to appeal an academic misconduct claim. The VPSA is available to help support, guide, and represent students during all levels of the process. Students have the right to represent themselves and to be accompanied throughout the process.

The VPSA is familiar with [Academic Misconduct Policy](#) and [Academic Misconduct Procedure](#) and can advise students about their specific case and how it relates to the University's procedures.

For more information on what to do if you've been accused of academic misconduct, read and download [A Students' Guide to Academic Misconduct Procedures here.](#)
[Download the black and white version of the guide here.](#)

Contact your VP Student Affairs at 204-786-9780 or vpsa@theuwsa.ca.

Avoiding Plagiarism

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Home My Profile



Two institutional practices to be aware of:

Emails: Under the new Academic Misconduct policy all communication throughout the process will occur through students' official U of W Webmail addresses. According to University policy, it's each student's responsibility to check their Webmail accounts regularly, e-mail forwarding can be set up.

Teachable moments: Instructors have the option to use a teachable moment as a discretionary alternative to a formal charge. Instructors may be more likely to consider a teachable moment if the suspected academic misconduct is understood by the instructor as an honest mistake or a case where the student has not learned proper citation techniques. An instructor who believes a student intentionally plagiarized, or cheated, is more likely to begin a formal process than use a teachable moment.

There are four levels in an academic misconduct case:

Level I – Meeting between the instructor and student

Level II – Departmental Review Committee

Level III – Senate Academic Misconduct Committee

Level IV – Senate Academic Misconduct Appeal Committee (if the Level III decision is appealed)

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Home My Profile

Teachable moments: Instructors have the option to use a teachable moment as a discretionary alternative to a formal charge. Instructors may be more likely to consider a teachable moment if the suspected academic misconduct is understood by the instructor as an honest mistake or a case where the student has not learned proper citation techniques. An instructor who believes a student intentionally plagiarized, or cheated, is more likely to begin a formal process than use a teachable moment.

There are four levels in an academic misconduct case:

Level I – Meeting between the instructor and student

Level II – Departmental Review Committee

Level III – Senate Academic Misconduct Committee

Level IV – Senate Academic Misconduct Appeal Committee (if the Level III decision is appealed)

If you are suspected of academic misconduct:

- Be honest
- Provide as many relevant details as possible
- Participate in the process – it's your right

Quiz

Featured

515 Portage Avenue
Winnipeg, MB Canada
R3B 2E9
P: 204.786.7811

Connect with Uwinnipeg:

One of three columns

Emergency Guidelines
Contact Webmaster
Copyright
Privacy Policy
Brand Guidelines

5.4 QUIZ:

 THE UNIVERSITY OF WINNIPEG[Home](#) [Login](#)

{{Module Name}}

Question: 1/2

Suppose you are a mathematics professor who wants to determine whether or not your teaching of a unit on probability has had a significant effect on your students. You decide to analyze their scores from a test they took before the instruction and their scores from another exam taken after the instruction. Which of the following t-tests is appropriate to use in this situation?

- Dependent samples.
- Heterogenous samples.
- Homogenous samples.
- Independent samples.

[Next](#)

5.5 EDIT CONTENT:

 THE UNIVERSITY OF WINNIPEG[Home](#) [Login](#)

What you can do

Lorem ipsum dolor sit amet consectetur adipisicing elit. Repudiandae nulla nisi illo facere corrupti perferendis consectetur voluptatem harum. Harum at velit illum laboriosam debitis. Alias, quis tempore in aliquam ipsum rem fuga modi sapiente quidem distinctio, sequi, unde repudiandae veritatis ducimus error excepturi voluptatibus nam ad qui itaque. Temporibus similique provident eveniet corporis excepturi at aut nihil ex quidem. Itaque facilis voluptate tempore vitae libero illum quaerat, distinctio at officiis, perferendis quidem repellat doloribus obcaecati fugiat voluptatibus iusto optio. Debitis modi, possimus placeat exercitationem quae assumenda delectus consequatur illum alias iste eos pariatur ut corrupti aut tempore voluptatem reiciendis tempora quibusdam eaque error veniam corporis, velit adipisci? Expedita est perspiciatis tempore tempora. Exercitationem dolorem architecto animi sit consequuntur quia dignissimos ad consectetur modi. Ratione eveniet sunt molestias cum debitis vitae id nihil dicta atque dolor ipsam commodi rerum exercitationem facilis neque natus doloribus eos totam asperiores sed, laudantium tempora. Sint impedit, aspernatur perspiciatis iure mollitia libero doloremque nisi delectus? Incidunt voluptatem earum nulla distinctio placeat beatae atque veritatis cum similique! Obcaecati delectus, temporibus quos, illo commodi provident ducimus dolorum ipsa quia totam velit tempora id officia repudiandae quam eligendi odit minus, recusandae cumque aliquam doloribus beatae. Iste, nemo cumque!

[Create New](#) [Edit](#)

THE UNIVERSITY OF WINNIPEG

Home Login

Select a Module

Module One

Module Two

Module Three

Lorem ipsum dolor sit amet consectetur
 harum. Harum at velit illum laborum
 unde repudiandae veritatis ducimus
 excepturi at aut nihil ex quidem
 repellat doloribus obcaecati fugiat
 consequatur illum alias iste edoc
 corporis, velit adipisci? Expedi
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 exercitationem facilis neque natu
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 at officiis, perferendis quidem
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 usdam eaque error veniam
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 empora id officia repudiandae
 o cumque!

system-ui

6.0 REPORT DESIGN

6.1 QUIZ RESULTS

THE UNIVERSITY OF WINNIPEG

Home Login

You Scored: 50%

Suppose you are a mathematics professor who wants to determine whether or not your teaching of a unit on probability has had a significant effect on your students. You decide to analyze their scores from a test they took before the instruction and their scores from another exam taken after the instruction. Which of the following t-tests is appropriate to use in this situation?

Dependent samples.
 Heterogenous samples.
 Homogenous samples.
 Independent samples.

INCORRECT. Explanation goes here....

What is the average effective radiation dose from chest CT?

1-7 mSv
 8-15 mSv
 16-24 mSv
 24-32 mSv

The screenshot shows a dark-themed application interface. At the top, there is a navigation bar with the University of Winnipeg logo on the left and 'Home' and 'Login' links on the right. The main content area contains a question about radiation dose, with the correct answer '16-24 mSv' highlighted in green. Below the question, the text 'CORRECT.' is displayed. Further down, a message encourages the user to 'please try again' and 'Congratulations! Click [HERE](#) to see your certificate.'

What is the average effective radiation dose from chest CT?

1-7 mSv
8-15 mSv
16-24 mSv
24-32 mSv

CORRECT.

Sorry, you have to get 100% to progress, [please try again](#).

Congratulations! Click [HERE](#) to see your certificate.

The screenshot shows the University of Winnipeg website footer with links to 'Featured', '515 Portage Avenue', 'Connect with Winnipeg', 'One of three columns', 'Emergency Guidelines', 'Contact Webmaster', 'Copyright', 'Privacy Policy', and 'Brand Guidelines'.

6.2 CERTIFICATE

The certificate is framed by a blue rosette border. The text inside reads:

Certificate of Achievement

THIS ACKNOWLEDGES THAT

Name of Recipient

HAS BEEN RECOGNIZED FOR OUTSTANDING ACHIEVEMENT

OCTOBER 29, 2018

NAME/TITLE OF PRESENTER

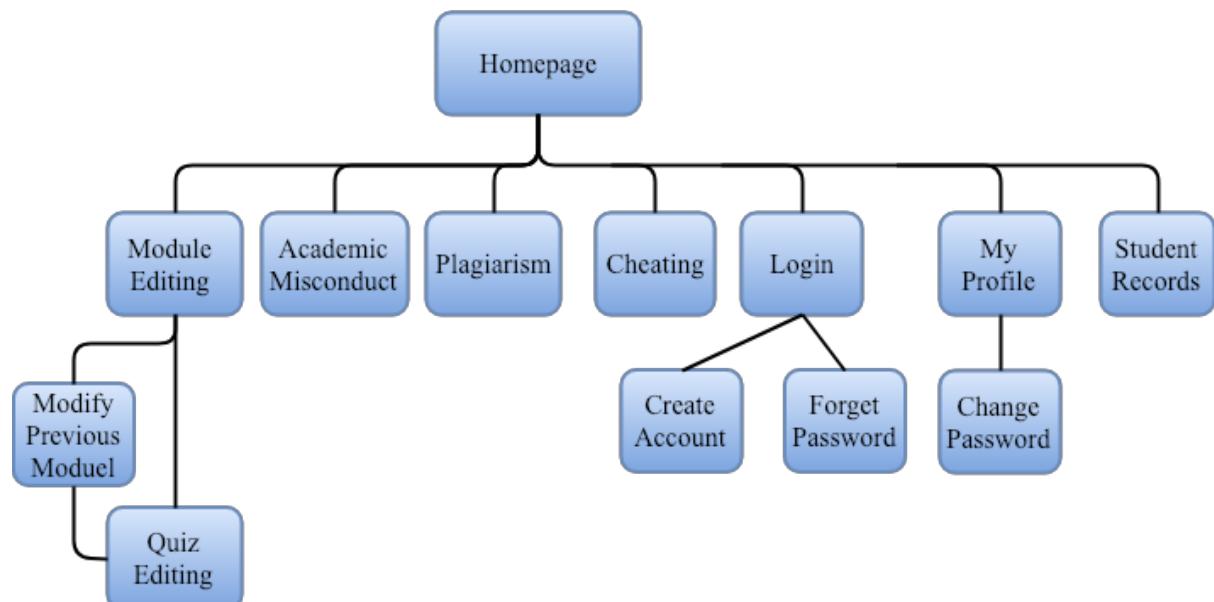
7.0 DETAILED PROCESSING LOGIC

7.1 HIERARCHY CHART

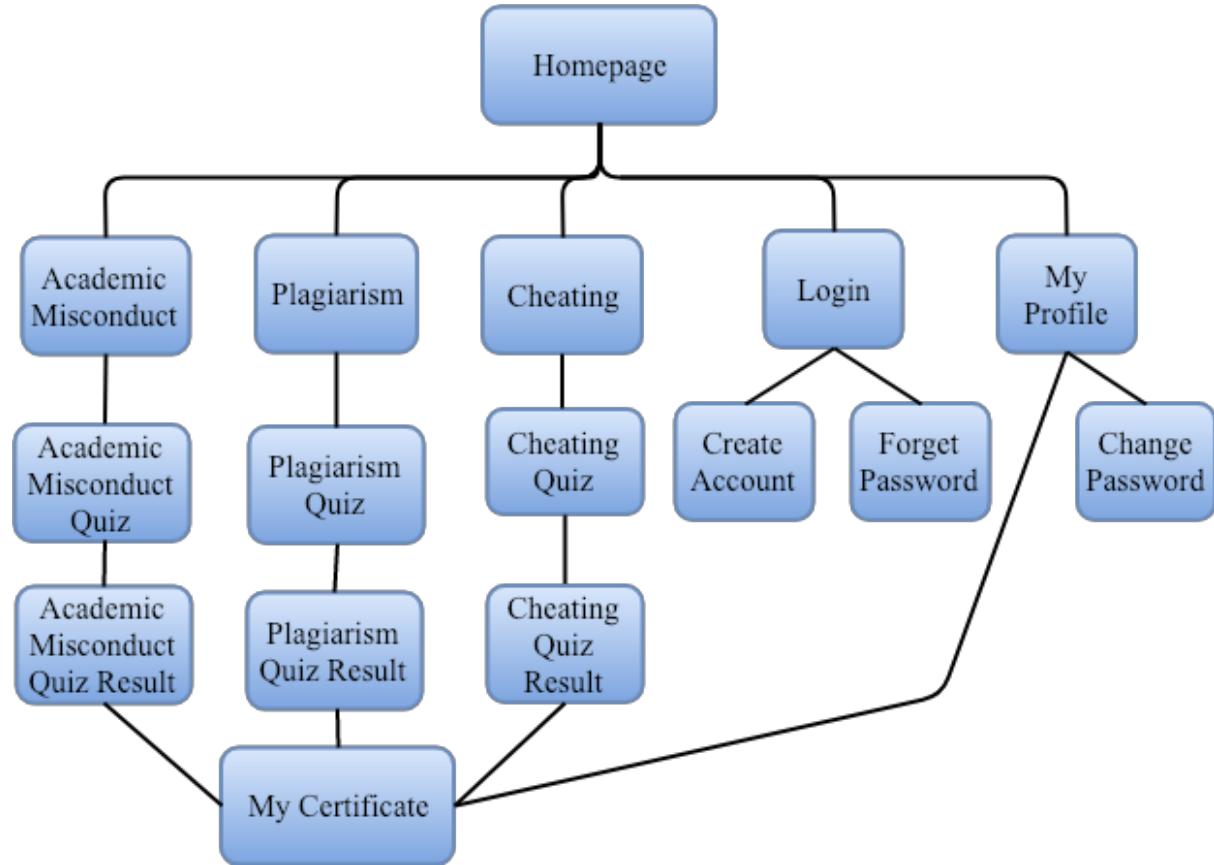
Assumptions:

- All user starts at the homepage.
- Login is optional, user can view content without login.
- There are separate pages for 'reset password' and 'create new account'.
- Only an admin can access the Editing page.
- Admin can view all student quiz results and other user settings after login.
- Students can view quiz results and other user settings after login.
- There are 3 modules: academic misconduct, plagiarism, and cheating.
- Each module has 3 pages: module content, quiz, and quiz result for that module.

Admin User:



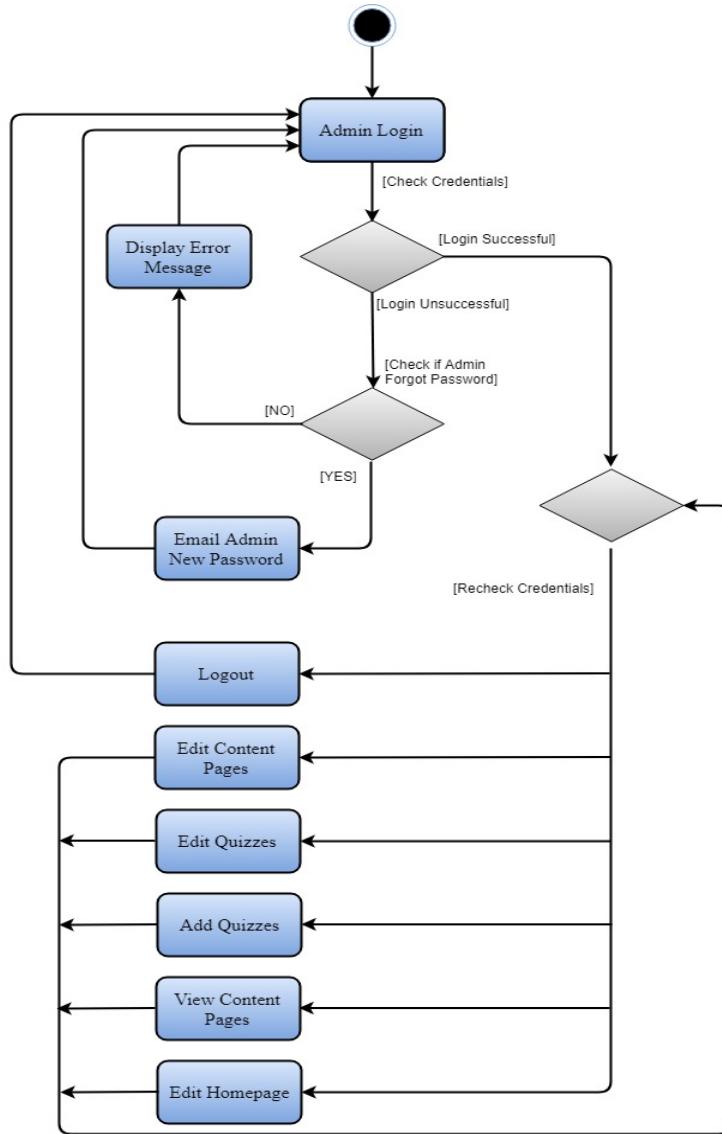
Student:



7.2 ADMIN ACTIVITY DIAGRAM:

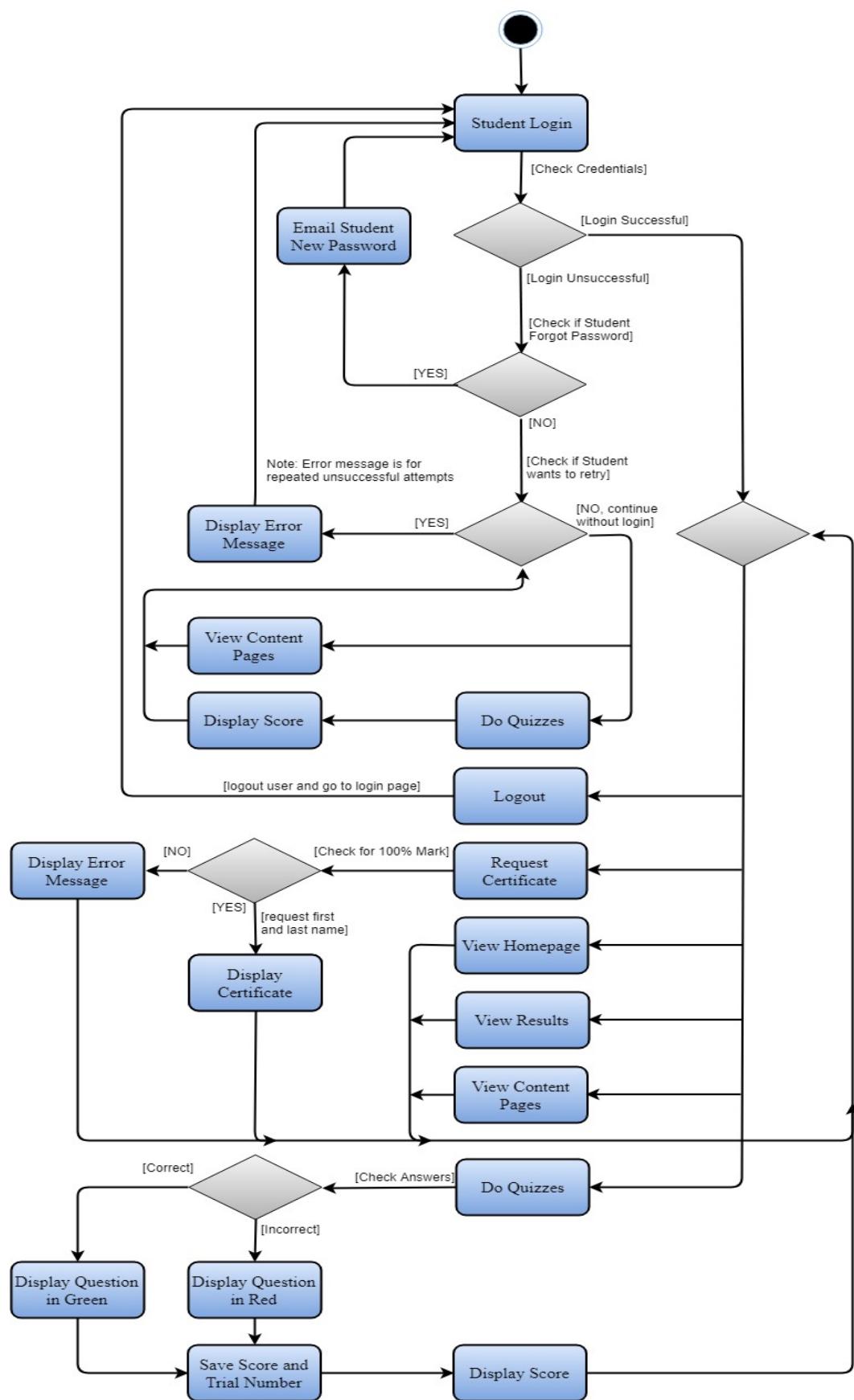
Possible activities to include:

- (admin and student) Change password
 - Most likely need this. Maybe **combine Reset/Change/Forgot** password all in one?
- (admin) view student scores, queries for different types of students?
 - Sponsor probably doesn't need this.
- (admin) edit/delete student usernames, accounts or passwords
 - Sponsor probably doesn't need this but may be useful to include it.



Added logout function. **May need other functions for managing site** such as deleting users or viewing student scores. I am not sure if Admin can add new pages since it will change all the links to each page. There is **no termination point** because I am not sure where it would be for this app.

7.3 STUDENT ACTIVITY DIAGRAM:



8.0 Refined Testing Plans

8.1 Functional Testing

Functional testing will be performed to ensure that all components meet their functional requirements, and that related components communicate as intended. We will be testing functionality throughout the development period. The areas of focus for functional testing will be:

Unit Testing

Testing individual components to ensure that they produce correct output. This is to ensure each component works as intended in isolation, before moving on to integration testing.

Integration Testing

Testing components together to ensure they communicate as intended. Once integration testing for all components is completed, we can test the system as a whole.

8.2 Acceptance Testing

Acceptance testing will involve working with the sponsor to ensure that the system performs as required, and that all desired features are implemented correctly. This will take place throughout development and will be used to inform any changes or additions that need to be made before the system is finalized.

Dates and schedules for prototype deadlines and testing sessions will be determined as needed during development.

8.3 Preliminary Test Cases

These test cases are meant as a guideline to inform later testing plans. Crucial use cases for testing are:

1. Student Login
2. Admin Login

3. Reset Password
4. (Admin) View Content
5. (Admin) Edit Content
6. (Admin) Add Question
7. (Admin) Edit Question
8. (Admin) View Student Results
9. (Student) Create New Account
10. (Student) View Content
11. (Student) Take Quiz
12. (Student) View Quiz Results
13. (Student) Print Certificate

9.0 RFINED TRAINING PLANS

Throughout development, and especially nearing completion of the project, we will be producing prototype builds of the application. The team will work with the sponsor to test the application. This testing will also serve as early training, as it allows us to explain the application's functions in depth, and it will give the sponsor hands-on experience with it. If necessary, the team may also provide additional training sessions at the sponsor's request. In addition, the team will provide detailed user and technical manuals to be used as training documents in the future. The basic outline of those documents are as follows:

9.1 USER MANUAL

The User Manual will see no changes since the outline of the User Manual in the Systems Study Report, and will be as followed:

1. Introduction
 - a) Overview of the System
 - b) Comments about the Manual

2. Getting Started
 - a) Launching the System
 - b) Login Page
 - c) Comments
3. How to Use the System
 - a) Screens
 - b) Reports and Certificate
 - c) Additional Information
4. Troubleshooting

9.2 TECHNICAL MANUAL

The Technical Manual will also remain the same since the outline in the Systems Study Report, however with more elaboration on certain key areas. The Technical Manual will be as followed:

1. Introduction
 - a) Purpose
 - b) Project Team
 - c) Technical Support Issues
 - d) System Overview
 - e) Hardware and Software Requirements
 - f) Installation Issues
2. Design Documentation
 - a) DFDs
 - b) ERD
 - c) Relational Model
 - d) Data Dictionary
 - e) Processing Logic
3. Standards
 - a) Design Standards
 - b) Programming Standards
 - c) Other Standards
4. Testing Plan and Methods
5. Backup and Recovery

6. Other Risk and Control Measures
7. Possible Future Enhancements
8. Troubleshooting
9. Appendix

10.0 REFINED IMPLEMENTATION PLANS

At this time there have been no significant changes to the implementation plans outlined in the System Study Report. The application is expected, ultimately, to reside on existing University of Winnipeg servers, though the details of this implementation cannot be determined currently.

11.0 RISK AND CONTROL MEASURES

Risk	Control
Changes to planned features	Any issues involving changes to features of the application will be addressed during acceptance testing.
System Failure	Rigorous testing will be applied to ensure the rate of system failure is as low as possible.
Unauthorized administrative access	Password-protection will ensure that only an administrator can access administrative functions.
Content not provided	In the event that the sponsor is unable to gather resources to produce content and quizzes for the site before the project is completed, the technical and user manual will provide instructions for how to implement them at a later date.
System not accepted by user	Prototypes will be tested repeatedly throughout the development phase to ensure acceptability. Feedback from testing will inform

	further changes until acceptability is achieved.
Changes to be made post-completion	The application is being developed such that changes to questions and content can be made by a non-technical administrator. If any other changes need to be made, the technical manual will provide necessary information.
Incomplete system	Due dates for subsystems, scheduled testing dates, and multiple prototypes.

12.0 PROGRAMMING STANDARDS

React.js:

1. We will refer to the documentation of React.js provided at: <https://reactjs.org/docs/getting-started.html>
2. We will use state management for storing the states of user and question: <https://reactjs.org/docs/state-and-lifecycle.html>
3. We will use React-bootstrap for styling our form elements: <https://react-bootstrap.github.io/getting-started/introduction/>
4. We will create components for various modules: <https://reactjs.org/docs/react-component.html>

Node.js:

1. We will be following the Node.js official documentation provided at: <https://nodejs.org/en/docs/>
2. We will create models for user and question: <https://www.npmjs.com/package/nodejs-model>
2. We will follow the official documentation for MongoDB <https://docs.mongodb.com/manual/>
3. We will handle live responses to requests using ajax: <https://www.npmjs.com/package/ajax-request>
4. We will use the Express.js framework over Node.js: <https://expressjs.com/en/api.html>

MongoDB:

For MongoDB, we will consult their manual at: <https://docs.mongodb.com/manual/>

HTML/CSS:

For HTML and CSS standards, we will reference: https://www.w3schools.com/html/html_css.asp

13.0 PROJECT MANAGEMENT

13.1 CHANGE CONTROL MANAGEMENT

We assume that there will be no significant adjustments to the functionality and scope of the system as we are moving into the development phase. If the changes to the system design or functionality must be made, we will follow the change request control procedure outlined below:

1. The sponsor will request changes via email, for message recording purposes.
2. The project team along with the IS Director will review the request to determine if it is feasible.
3. The final decision will be discussed with the user.

Prototypes will be provided to the user throughout development. Schedules for this procedure must account for the team's deadlines and core objectives.

13.2 BACKUP AND RECOVERY PROCEDURES

During the development phase, we will use GitHub to backup and sync our code between computers. GitHub has a robust version control system, which would allow us to go back to previous revisions if any changes need to be rolled back.

During development, the team will use the sandbox provided by mLab as the database server for testing. In addition, a JSON file will be used to store all the test data. As with all code, this JSON file will be stored on GitHub.

With this backup and recovery policy in place throughout the project, downtime of the system and data loss will be minimized.

13.3 PROJECT PLAN

Currently, we appear to be on track. Provided the team maintains focus and does not encounter any significant delays, the project should be completed on time.

Phase #	Phase Name	Estimated Hours	Actual Hours	Estimated Start Date	Estimated End Date	Assigned To
PHASE I						
1	Initiation			5-Sep-18	3-Oct-18	
1.1	Plan, Organize, and Control	10	10	5-Sep-18	3-Oct-18	XZ
1.2	Regular Team Meetings	10	10	5-Sep-18	3-Oct-18	Team
1.3	Review Team Roles	1	1	5-Sep-18	5-Sep-18	Team
1.4	Review Repositories	10	10	5-Sep-18	3-Oct-18	Team
1.5	Initial User Meeting	7	8	11-Sep-18	19-Sep-18	
1.5.1	Prepare Questions	5	5	11-Sep-18	13-Sep-18	Team
1.5.2	Conduct User Meeting	1	1	14-Sep-18	14-Sep-18	Team
1.5.3	Review User Meeting	1	2	19-Sep-18	19-Sep-18	Team
1.6	Project Proposal	22	15			
1.6.1	Proposal Template Prepare	2	2	18-Sep-18	18-Sep-18	JS
1.6.2	Draft Proposal	10	8	18-Sep-18	23-Sep-18	Team

Phase #	Phase Name	Estimated Hours	Actual Hours	Estimated Start Date	Estimated End Date	Assigned To
1.6.3	Review Proposal with IS Director	5	2	23-Sep-18	24-Sep-18	XZ
1.6.4	Revise Proposal	3	1	24-Sep-18	24-Sep-18	XZ
1.6.5	Print Proposal	1	1	26-Sep-18	26-Sep-18	XZ
1.6.6	Deliver Proposal to User	1	1	24-Sep-18	3-Oct-18	Team
1.7	Project Plan	15	10.5	24-Sep-18	5-Oct-18	
1.7.1	Draft Project Plan	12	9	24-Sep-18	2-Oct-18	XZ, CG
1.7.2	Review Plan with IS Director	1	1	2-Oct-18	3-Oct-18	Team
1.7.3	Revise Project Plan	2	0.5	3-Oct-18	5-Oct-18	Team
1.8	Contingency Task (Percentage)	11.25	0			
Phase One Total:		86.25	64.5			

PHASE II

2	System Study			24-Sep-18	9-Nov-18	
2.1	Plan, Organize and Control	10	7	24-Sep-18	7-Nov-18	XZ
2.2	Regular Team Meetings	15	9	26-Sep-18	7-Nov-18	Team

Phase #	Phase Name	Estimated Hours	Actual Hours	Estimated Start Date	Estimated End Date	Assigned To
2.3	Research	20	9.5	3-Oct-18	28-Oct-18	
2.3.1	Review Provided Materials	10	4	3-Oct-18	28-Oct-18	Team
2.3.2	External Research	5	5	3-Oct-18	28-Oct-18	Team
2.3.3	Requirements Gathering	5	0.5	14-Oct-18	31-Oct-18	JS, PR
2.4	Models Drafting	46	44.5	3-Oct-18	17-Oct-18	
2.4.1	DFDs	10	12	5-Oct-18	12-Oct-18	JS, PR
2.4.2	Tree Diagram for Entities	10	15	5-Oct-18	12-Oct-18	PR, XZ
2.4.3	Preliminary Data Dictionary	5	4	5-Oct-18	12-Oct-18	JS, PR
2.4.4	GUI Design	20	13	3-Oct-18	17-Oct-18	JS, PR
2.4.5	Change Control Form	1	0.5	17-Oct-18	17-Oct-18	CG
2.5	Draft Report	21.5	14.25	18-Oct-18	30-Oct-18	
2.5.1	Introduction	1	1	18-Oct-18	18-Oct-18	XZ, JS
2.5.2	Proposed System	1	0.25	18-Oct-18	18-Oct-18	XZ, JS
2.5.3	System Architecture	3	1	19-Oct-18	21-Oct-18	JS, PR
2.5.4	Advisability Study	10	3.5	22-Oct-18	27-Oct-18	CG
2.5.5	General Design	5	5	27-Oct-18	29-Oct-18	Team
2.5.6	Project Management	1	1.75	30-Oct-18	30-Oct-18	XZ, CG

Phase #	Phase Name	Estimated Hours	Actual Hours	Estimated Start Date	Estimated End Date	Assigned To
2.5.7	Appendix	0.5	1.75	20-Oct-18	30-Oct-18	Team
2.6	Review SSR	8	5	31-Oct-18	1-Nov-18	
2.6.1	Team Review	3	2	31-Oct-18	31-Oct-18	Team
2.6.2	Review with IS Director	2	1	31-Oct-18	1-Nov-18	Team
2.6.3	Revise SSR	3	2	1-Nov-18	1-Nov-18	Team
2.7	System Study Review	21	16.5	31-Oct-18	9-Nov-18	
2.7.1	Create Presentation	12	10	31-Oct-18	3-Nov-18	Team
2.7.2	Presentation Practice	6	5.5	3-Nov-18	6-Nov-18	Team
2.7.3	Review Presentation	3	1	7-Nov-18	9-Nov-18	Team
2.8	Update Project Plan	2	1	9-Nov-18	9-Nov-18	CG, XZ
2.9	Review Documentation Conformance to Standard	2	2	8-Nov-18	8-Nov-18	CG
2.10	Contingency Tasks (15%)	21.83	0			
Phase Two Total:		167.33	108.7			

PHASE III

Phase #	Phase Name	Estimated Hours	Actual Hours	Estimated Start Date	Estimated End Date	Assigned To
3	Design			7-Nov-18	4-Jan-19	
3.1	Plan Organize and Control	10		7-Nov-18	4-Jan-19	XZ
3.2	Regular Team Meetings	15		7-Nov-18	2-Jan-19	Team
3.3	Review Materials	10		7-Nov-18	2-Jan-19	Team
3.4	Draft Detailed Design Report	45		7-Nov-18	23-Dec-18	
3.4.1	Introduction	0.5		7-Nov-18	9-Nov-18	JS
3.4.2	Data Flow Diagram?	2		10-Nov-18	20-Nov-18	PR, XZ
3.4.3	Data Model?	2		10-Nov-18	20-Nov-18	PR, XZ
3.4.4	GUI Design	20		20-Nov-18	10-Dec-18	JS, PR, CG
3.4.5	Detailed Processing Logic	5		11-Dec-18	13-Dec-18	PR
3.4.6	Refined Testing Plans	2		14-Dec-18	20-Dec-19	CG, PR
3.4.7	Refined Conversion Plans	0.5		14-Dec-18	20-Dec-19	Team
3.4.8	Refined Training Plans	2		14-Dec-18	20-Dec-19	CG, PR
3.4.9	Refined Implementation Plans	1		14-Dec-18	20-Dec-19	CG, XZ, PR

Phase #	Phase Name	Estimated Hours	Actual Hours	Estimated Start Date	Estimated End Date	Assigned To
3.4.10	Risk and Control Measures	2		14-Dec-18	20-Dec-19	CG
3.4.11	Backup and Recovery Procedures	2		21-Dec-18	21-Dec-18	XZ
3.4.12	Programming Standards	3		22-Dec-18	22-Dec-18	Team
3.4.13	Project Management	3		22-Dec-18	23-Dec-18	XZ, CG
3.5	Revise Report	5		23-Dec-18	23-Dec-18	Team
3.6	Detailed Design Review	15		27-Dec-18	4-Jan-19	
3.6.1	Create Presentation	8		27-Dec-18	29-Dec-18	Team
3.6.2	Presentation Practice	5		2-Jan-19	4-Jan-19	Team
3.6.3	Review Presentation	2		4-Jan-19	4-Jan-19	Team
3.7	Update Project Plan	2		4-Jan-19	4-Jan-19	Team
3.8	Contingency Tasks (15%)	15.3				

Phase Three Total: 115.3

PHASE IV

4	Development	2-Jan-19	6-Feb-19		
4.1	Plan, Organize, and Control	10	2-Jan-19	6-Feb-19	XZ

Phase #	Phase Name	Estimated Hours	Actual Hours	Estimated Start Date	Estimated End Date	Assigned To
4.2	Regular Team Meetings	30		2-Jan-19	6-Feb-19	Team
4.3	Version Control Setup	5		2-Jan-19	2-Jan-19	XZ, PR
4.4	Coding	100		2-Jan-19	25-Jan-19	Team
4.5	Testing	45		20-Jan-19	6-Feb-19	
4.5.1	Develop Testing Plan	5		20-Jan-19	22-Jan-19	PR
4.5.2	Revise Testing Plan	5		22-Jan-19	25-Jan-19	PR, CG
4.5.3	Develop Test Data	10		26-Jan-19	30-Jan-19	PR, CG
4.5.4	Unit Testing	10		26-Jan-19	3-Feb-19	Team
4.5.5	Integration Testing	10		1-Feb-19	5-Feb-19	Team
4.5.6	Prepare Acceptance Tests	5		1-Feb-19	5-Feb-19	Team
4.6	Documentation	50		2-Jan-19	6-Feb-19	
4.6.1	Comments	5		2-Jan-19	6-Feb-19	Team
4.6.2	Create User Manuals	10		26-Jan-19	28-Jan-19	CG
4.6.3	Create Technical Manuals	10		28-Jan-19	30-Jan-19	CG
4.6.4	Create Training Materials	10		30-Jan-19	1-Feb-19	CG
4.6.5	Revise User Manuals	5		2-Feb-19	5-Feb-19	CG, XZ

Phase #	Phase Name	Estimated Hours	Actual Hours	Estimated Start Date	Estimated End Date	Assigned To
4.6.6	Revise Technical Manuals	5		2-Feb-19	5-Feb-19	CG, XZ
4.6.7	Revise Training Materials	5		2-Feb-19	5-Feb-19	CG, XZ
4.7	Development Review	25				
4.7.1	Prepare Materials	10		1-Feb-19	3-Feb-19	Team
4.7.2	Conduct Review	15		3-Feb-19	6-Feb-19	Team
4.8	Update Project Plan	10		2-Feb-19	6-Feb-19	Team
4.9	Contingency Tasks (15%)	41.25				
Phase Four Total:		316.25				

PHASE V

5	Implementation		6-Feb-19	11-Mar-19	
5.1	Plan, Organize, and Control	10	6-Feb-19	11-Mar-19	XZ
5.2	Regular Team Meetings	20	6-Feb-19	11-Mar-19	Team
5.3	System Implementation	40	6-Feb-19	6-Mar-19	

Phase #	Phase Name	Estimated Hours	Actual Hours	Estimated Start Date	Estimated End Date	Assigned To
5.3.1	Errors Fixing	25		6-Feb-19	26-Feb-19	CG, PR
5.3.2	Performance Optimization	15		27-Feb-19	6-Mar-19	CG, PR
5.4	User Training	5		6-Mar-19	10-Mar-19	
5.4.1	System Walkthrough	2		6-Mar-19	10-Mar-19	Team
5.4.2	User Training	3		6-Mar-19	10-Mar-19	Team
5.5	User Sign Off	1		11-Mar-19	11-Mar-19	Team
5.6	Update Project Plan	5		11-Mar-19	11-Mar-19	Team
5.7	Contingency Tasks (15%)	12.15				
Phase Five Total:		93.15				

PHASE VI

6	Project Completion		12-Mar-19	3-Apr-19	
6.1	Plan, Organize, and Control	10	12-Mar-19	3-Apr-19	XZ
6.2	Regular Team Meetings	15	12-Mar-19	3-Apr-19	Team
6.3	Project Completion Report	25	12-Mar-19	24-Mar-19	

Phase #	Phase Name	Estimated Hours	Actual Hours	Estimated Start Date	Estimated End Date	Assigned To
6.3.1	Draft Report	20		12-Mar-19	22-Mar-19	Team
6.3.2	Revise Report	5		22-Mar-19	24-Mar-19	Team
6.4	Project Completion Seminar	28		24-Mar-19	31-Mar-19	
6.4.1	Prepare Presentation	15		24-Mar-19	31-Mar-19	Team
6.4.2	Revise Presentation	5		27-Mar-19	29-Mar-19	CG, XZ
6.4.3	Rehearse Presentation	5		27-Mar-19	30-Mar-19	Team
6.4.4	Conduct Presentation	3		31-Mar-19	31-Mar-19	Team
6.5	System Demonstration	7				
6.5.1	Prepare Demonstration	5		24-Mar-19	30-Mar-19	Team
6.5.2	Conduct Demonstration	2		31-Mar-19	31-Mar-19	Team
6.6	Course Completion Checklist Confirmation	2		31-Mar-19	31-Mar-19	Team
6.7	Repository Sign-Off	1		3-Apr-19	3-Apr-19	
6.7.1	Prepare Deliverables	0.5		3-Apr-19	3-Apr-19	Team
6.7.2	Sign-Off	0.5		3-Apr-19	3-Apr-19	Team
6.8	Peer Evaluation	0.5		3-Apr-19	3-Apr-19	Team
6.9	Contingency Tasks (15%)	13.275				

Phase #	Phase Name	Estimated Hours	Actual Hours	Estimated Start Date	Estimated End Date	Assigned To
Phase Six Total:		101.275				
Project Total		1000.875				

14.0 CHANGE CONTROL FORM

Requester	Title	Date

Description of Requested Change:

Evaluation (by the project team):

Response (to user):

Assessed by	Date
IS Director	