**­ Virtual Classroom Dashboard**

**Submitted by:**

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**CPSC-597**

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This project has been satisfactorily demonstrated and is of suitable form.

This project report is acceptable in partial completion of the requirements for the award of Master of Science degree in Computer Science.

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| **Virtual Classroom Dashboard** | | |
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Abstract

Learning Management Systems are of utmost importance in our technological world for educating young minds in the courses they are passionate about. The recent pandemic has only shown us how utilizing an online platform for learning and integrating it within the classroom has become vital. Education is crucial because it provides us with the tools and knowledge to move through our careers and life. Accessibility is vital for students and professors who have disabilities to access their education. Moving forward from this challenging time, we will need various learning tools to provide to students and use as educators. My dream is to have the privilege of presenting this information dynamically once I am a professor. I get a glorious feeling when someone understands the material presented to them and can utilize it within their career and everyday life.

This project documentation displays website applications of a similar caliber. It shows the research and documentation needed to develop a master’s project concerning the software development lifecycle. This paper takes you through the methodology of developing a more extensive scale web application with three different types of users. It defined the project and technical objectives that were outlined in a proposal for the development of this project. This paper also defines the significance behind creating a Learning Management System called Virtual Classroom Dashboard. Virtual Classroom Dashboard was developed by following the software development life cycles process of planning, analysis, design, build, testing, deploying, and maintaining.

The tools used to develop this web application were Visual Studio 2019, Microsoft SQL Server (for development), GitHub, Azure Database(for deployed application), and a web server hosted in a cloud provider such as Azure. The VCD project was developed as a website application, and the design of the website must follow contrast, alignment, repetition, proximity (CARP), flexibility, and usability principles to be a successful app. Along with the design requirements, a series of diagrams were created to help construct the applications, such as a sitemap, design speculations, wireframes to depict placement with different device sizes, database requirements, user flow diagrams, etc. Following the architecture of the website a series of tests were run by outside parties to determine the security, flexibility, and accessibility. At the end of this report is a discussion about the web application, the limitations of the project, and future features.

Project Information

The information below are links to the Virtual Classroom Dashboard web application and the GitHub repository, where a copy of the project and materials to create the project are kept. The sample credentials are for observation of the full capabilities of this website. If you would like to start from scratch, please create an admin account and create the other user accounts from there. The default password for accounts created from the admin is johnDoe3#.

**Web Application URL**: <http://virtualclassroomdashboard.azurewebsites.net>

**GitHub Project Repository:** <https://github.com/Akimberling/VirtualClassroomDashboard>

**Sample Admin Credentials**

Username: JohnAdmin@jd.com

Password: JohnAdmin5$

**Sample Teacher Credentials**

Username: Akimberling3@gmail.com

Password: johnDoe3#

**Sample Student Credentials**

Username: Akimberling3@yahoo.com

Password: johnDoe3#

1. Introduction, Motivation, and Need

Education is at the forefront of developing the skills to succeed in our careers, whether it is traditionally held in a classroom or online. For most people, schooling is in a traditional setting, or it used to be. “By 24 April 2020, education institutions in approximately 180 countries were closed, affecting 85 percent of the world’s student population and causing nearly 1.5 billion students to stay out of the classroom” [1]. Covid-19 has caused a strain on the educational industry and has forced many institutions to turn to online learning. E-learning is not a new concept and has been around for many years. E-learning (Electronic learning) is education through electronic devices and digital media. One of the leading tools in online learning is Learning Management Systems (LMS). An LMS is a software platform for tracking online courses or programs.

Students strive in learning environments when tools to suit their educational needs are provided. There are many different types of learning styles and students with special needs. Accessibility is to have ease of accessing what you need. Having access to an LMS from anywhere, regardless of your disabilities or impairments, should be a right. Our learning tools should be geared to every type of student, such as ones that need larger text, text to speech, or speech to text options. Every student should have the same opportunities or accessibility, especially when it comes to education. Every moment in our lives has been and will continue to involve learning. Education is a right no matter who you are, where you are, or what you need to succeed. These needs belong to the teachers as well. To perform the act of teaching, you need to have all the tools. Providing greater accessibility to the students and the ones who teach you can provide a more diverse environment that breaks away from limiting the types of users it can have.

1.1 Background

In 1924 the testing machine was created as an automatic teacher. The automatic teacher was used for rote-and-drill learning. This machine was also considered a big failure. In 1954 the teaching machine was developed by B.F. Skinner and was used for students to learn at their own pace [2]. In the 1960s, training on the computer was developed and was called Programmed Logic for Automated Teaching Operations (or PLATO). PLATO implemented drills and questions. From these inventions and developments emerged Digital Native in the 1990s. This time period is where the concept of electronic learning began to be recognized as a tool for learning. In the 2000s, businesses began to implement the concept of E-learning by training their workers electronically. From 2010 and up, social media began to inspire more tools for E-learning, such as YouTube and Twitter.

Today, over 1000 plus LMS to choose from, each containing many useful learning features [3]. It is currently used as a tool for learning in both education and in corporate life. The educational system utilizes E-learning to teach its students. Corporate companies or lower-level businesses use online learning for training their workers. There are several different types of Learning Management Systems, including cloud-based and open-source. Cloud-based systems can be accessed anywhere since they do not require hardware specifications or software to be installed. Open-source systems provide free code allowing organizations to customize the type of environment they will be using. LMS's key features are social learning tools, gamification, course management, assessment tools, notifications, and intuitive user management.

1.2 Motivation

My passion for education is my motive for working, researching, and developing a learning management system. For almost three years, I have been a tutor for several different computer science subjects, including programming concepts, object-oriented programming, data structures, python, compiler design, algorithms, and discrete mathematics. My goal is to one day be a professor of computer science at the undergraduate level. Other motives for choosing the topic of E-learning and LMS are because I hope to develop better communication between users, bring all educational content into one place, track learning progress and performance, reduce learning costs, and create up-to-date information.

1.3 Related Work

Moodle (Modular Object-Oriented Dynamic Learning) is a popular open-source online learning platform. It has many enticing features such as fast grading, gamification, online testing, assignment submission, analytics, and group options [4]. Another LMS is Canvas. Canvas is web-based and is used for all education levels. It includes various features such as speed grading, provides learning outcomes, integrated calendars, online testing, originality checks for submissions, and discussion boards [5]. Google Classroom is another free web-based learning service. This LMS was created with the primary purpose of streamlining file sharing. It also has several great features like class management, announcement posting, question-driven discussions, work tracking, and a student summary that can be shared with a parent or guardian [6]. Each of these Learning Management Systems shares similar features but seems to be missing an essential feature of all, video conferencing within the applications.

* 1. Problem Statement

Learning Management Systems have been around for several years. Each type of system contains some unique and similar sets of features. Each year new technology arises as well as new tools for learning. With these developments come changes to the educational system in a more technological way. In 2020 the world was hit with the Covid-19 pandemic leaving institutions with no choice but to turn to online learning. Switching how students are taught is not easy because they had to find a suitable LMS and video-conferencing application. Having multiple tools and platforms can prove difficult, especially for lower levels of education. Why can’t these tools be all in one? There is a need for a uniform, all-in-one easy to use platform where teachers can video chat, communicate, provide material, submissions, and assessments.

“The best online learning combines elements where students go at their own pace, on their own time, and are set up to think deeply and critically about subject matter combined with elements where students go online at the same time and interact with other students, their teacher and content” [7]. Education is a crucial asset to providing us with the tools to move through our lives and careers. If the world were to move to hybrid or e-learning applications, they would need to be equipped with the best tools and be flexible. As we move toward the future, learning will be an ongoing issue, especially if there is another pandemic or outbreak.

* 1. Project & Significance

This project is called Virtual Classroom Dashboard (VCD). This application provides a more diverse environment for educators to immerse their students into their classes. This development project takes the best features from top learning management systems and, in the future, would be integrated with a video chatting system like Zoom, WebEx, or Google Meet. It contains three types of users, students, educators, and administrators. This application is a free web-based application. VCD contains features such as automatic grading, discussion boards, content management, online testing, and analytics(In the future). Educators need one application to provide for their students, and students need a single place to find all their materials for a given class. Creating an application that benefits the teachers and students is about bridging the gap between communication and defining a diverse learning environment.

“From 2021 to 2024, the learning management system market is expected to expand to $25.4 billion at a CAGR (Compound annual growth rate) of 23.8 percent” [8]. Learning Management Systems are becoming very important and continue to be essential in the growth of the educational industry. Schools are not the only ones who are invested in LMS; companies are as well. Businesses use this technology to train their staff. This development project can be manipulated in the future to include businesses as well. The future of LMS includes AI-driven smart course personalization features, social media integration, big data implementation, and user-generated content.

1. Literature Review
   1. Understanding Learning Management Systems

Learning Management Systems can aid in the assistance of educators not only in the physical classroom but also virtually with quite a few activities such as quizzes, group works, and turning in assignments [9]. The core of online or hybrid learning is utilizing web-based tools given to you within an LMS. These systems have been improved by focusing on user experience development. Narrowing the focus means that developers focus more on creating software geared towards what students and teachers require to have a successful learning/teaching experience. These requirements are found by data mining to find correlations within data sets that can be used to predict an outcome or improve a learning application.

“Learning management systems can offer a great diversity of pathway and for its users it provides a framework so that they can promote knowledge distribution and exchanging information between learners in a course, allow teachers to spread information to learners, generate learning material, make tests and assignments, take on discussions, operate distance classes and permit cooperative learning with forums, chats, file storage areas, news services, etc. [10].” A user's path within an LMS can be studied with data mining to understand and predict what students and teachers need. Understanding an LMS and its users aligns with Bloom’s Taxonomy. Bloom’s Taxonomy is how we can define and distinguish the levels of educational learning through the human intellectual brain with models. This ideology is used for guidance learning that begins with educators prepping work for students and ends with homework-driven tasks for students to complete [11]. LMS’s purpose is to evaluate users' experiences to provide the tools needed to succeed within the classroom. These tools include tracking the students learning, providing areas for discussion, and most importantly, providing a space that has high accessibility and is user friendly.

An LMS connects students worldwide to access their education no matter the distance. “LMS is used to gather all these different students in one virtual place enhancing all their interactions, discussions and feedbacks [12].” Enhancing a student’s or teacher’s ability to interact online is vital for the virtual class environment to work. To see how the online learning environment affects its users, we must analyze the user impacts through studies done by outside sources.

* 1. User Impact

A study was conducted by several students in Australia looking for the connection between Learning Management Systems and positive outcomes. “The more the students use and interact with the LMS platform, the more they can be engaged with the materials and be more satisfied ” [13]. This concept of using an online platform for learning produced actual positive results for the students in the study. It proves that students with an engaging LMS can have positive experiences and perhaps boost their learning potential.

Another study was conducted in the Philippines, but the study was focused on the Unified Theory of Acceptance and Use of Technology (UTAUT) with the LMS Canvas. UTAUT explains user intentions and behaviors with the use of technology. The results from the study showed that it was highly recommended for admins, teachers, and students. The results also suggested that “to improve implementation of canvas in teaching and learning process, encouragement and support from peers is imperative” [14]. These results meant that the LMS appeared to be very beneficial to its users when there was engagement and support.

Universiti Tunku Abdul Rahman conducted another study (UTAR), except this one used Bloom’s Taxonomy to determine how effective the personalization of learning materials within a system affects its users. Personalized learning can work around the students’ needs to maximize the learning process to benefit the students [15]. The study results displayed that active learning was the most effective style of how students received their education. These results mean that personalized learning within a Learning Management System allows for flexibility suited to students’ needs.

Students from several Universities in Mexico determined that “When designing a virtual campus and virtual classrooms, these must include the software design, what the presentation and interaction with the modules will be like, and the hardware architecture with the specification of resources [16].” Interactive design and software design are two of the most vital features to think about when developing an LMS. Interactive design defines how a user will interact with your product. If your product is designed for the user and meets all the requirements to keep a user interested, you will have a more significant user impact. Software design is how you will meet the requirements and achieve the goals defined by the user, which would be to have a highly interactive learning environment.

* 1. Performance Benefits

How do we improve performance benefits for students and understand their needs? “By using easy and efficient analysis tools for teachers and researchers, L.A. (Learning Analytics) allows an improvement in the quality of student performance” [17]. There are many ways in which to improve students' conduct. Analyzing tools are one of the most efficient ways to get more accurate and direct results. With analytics, we can improve how the students learn and how the teachers present the information for different learners. The first step to understanding the analytics is comprehending what e-learning is theoretical and analyzing performance benefits.

E-learning is the interconnection between training education, teaching on digital platforms, and the class format (in person or online) [18]. This way of learning may benefit the students by increasing their drive to learn because it caters to more than average students. Online learning targets the students who need exceptionally engaging education by learning through gaming or puzzles. The in-person classes target the students who need better clarification or attention from a teacher. When the two forms of learning are combined in a hybrid learning setting with an LMS, it creates a unified learning environment that caters to every user. It can, in return, benefit an individual’s performance within a course.

“It was concluded that distance learning is the only way we can continue education in the time of COVID-19 that has disrupted global education scenario [19].” Students worldwide move to attend different types of higher education institutions. Following the pandemic, it was found that the switch to online may be the way of the future. There is a need for more research on hybrid or fully online instruction to conclude that E-learning is where future generations will have access to their education. The first step towards understanding LMS is to analyze enhancement and accessibility.

* 1. Enhancement and Accessibility

Over the years, LMS’s have been enhanced with features such as authorization, authentication, monitoring materials, and so much more. Moodle is one of the top LMS’s due to its flexibility, modifiability, and open-source format. With these improvements in LMS’s, there are significant advantages for the students and the teachers. Some of the benefits from an LMS do not help everyone because of disadvantages such as “not all users like or are familiar with this online learning approach due to lack of computing skills or are computer illiterate to access the learning material” [20]. Ultimately this hybrid learning style or online learning with LMS can outweigh the disadvantages because you can teach someone computer skills. Unfortunately, we are not considering the students who do not have access to the technology itself.

“Main findings are that there is no single solution that can fit all individual needs, even when the same type of disability is at stake; that, consequently, the use of external tools adapted to specific special needs is preferable to the development of embedded facilities; and that special attention should be given to accessibility of the content uploaded to the LMS [21].” Accessibility is an essential part of any application. The reason that accessibility is so important is that there are a variety of disabilities or styles of learning. As stated before, it is impossible to ensure that your application is 100% accessible to everybody. Web applications must-have tools to reach high accessibility. “Important components to facilitate the development of the next generation of e-learning environments are personalisation and automatic reasoning to find patterns and extract information and knowledge in order to deliver better learning resources to the users [22].” To create a highly accessible application, previous studies on how different types of students interact with technology are essential.

1. Objectives, Significance, and Methodology
   1. Project
      1. Project Objective 1

A deployable application completed by December 2021 with over 200 hours of work.

* + 1. Project Objective 2

Design a full-stack application that provides a multi-tier platform for users such as educators, students, and administrators.

* + 1. Project Objective 3

Develop a final report with a full explanation of the development and software.

* + 1. Project Objective 4

Develop three user manuals.

* 1. Technical
     1. Technical Objective 1

Design a cross-browser compatible application.

* + 1. Technical Objective 2

Design a responsive app for all devices.

* + 1. Technical Objective 3

Develop a secure app using authentication, authorization, limit access, and encryption tactics.

* + 1. Technical Objective 4

Develop an accessible application that is easy to use and adheres to the guidelines for accessibility.

* + 1. Technical Objective 5

Design an application with high modifiability and testability with separation of concerns using the Model View Controller (MVC) framework. The MVC framework is a design or architecture pattern that helps develop a separation of concern, which helps increase the modifiability and testability of an application.

* 1. Significance

E-learning is a current topic and will continue to be current with the future advances in technology. Learning Management Systems are vital, especially since the Covid-19 pandemic. Covid-19 has shown that having easy-to-use LMS can make the switch to online schooling easier for the students and the teachers. The other factors that make this development project significant enough for a master’s project are the extended amounts of research time, it requires the knowledge from the courses I have taken in the master’s program, and the knowledge gained outside of the classroom. This project will also take over 200 plus hours to complete.

* 1. Methodology
     1. The Process

Virtual Classroom Dashboard was developed by following the software development life cycles process of planning, analysis, design, build, testing, deploying, and maintaining. The initial process started with the planning phase that includes defining the problem, the objectives, activities, environment, reports and products, and the project milestones. The first phase included analysis, research, and design. Within the analysis portion, the project's requirements were defined and established the users' needs through a product backlog. In the research portion of the process, a series of LinkedIn Learning videos were watched to understand how to build an application with the defined requirements. The design side included charts, diagrams, flow charts, and any graphic necessary to understand how the software will function on the frontend and back-end and how the web application will look.

The next phase included build and testing. The software went into physical development in this phase, meaning the coding process started. The application was developed in visual studios using the C# ASP.NET MVC framework and a relational database managed by GitHub. This project is a full-stack web application. As the development process moved forward, a series of tests occurred, checking the back-end functionality per feature of the LMS.

The third phase entailed deploying and maintaining the application. The application was deployed onto an Azure server along with its Microsoft SQL relational database. From this point, perfective, adaptive, preventative, or corrective maintenance were documented and published through Azure. The last part of this project included documentation and demonstrations of the application. The documentation included a paper on the technical details developed from the previous steps, user manuals, and a PowerPoint describing the high-level details of the application and the process for creating it.

Chart, funnel chart

Description automatically generated

**Figure 1: Software Lifecycle Development and Descriptions**

* + 1. Phases

**Phase 1: Planning, Analysis, Research, and Design**

* Planning & Analysis: Project Proposal.
* Research all necessary pieces of the project.
* Design: Visually representing all aspects of the project
  + Build – User Flow, Wireframe, sitemaps, E.R. diagrams, etc.

**Phase 2: Build and Testing**

* Programming in phases based on Agile/Scrum product backlog and feature-driven development.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product Backlog** | | | | | | |
| **Story ID** | **User Story** | **Importance** | **Estimate** | **Acceptance** | **User** | **Epic** |
| 1 | As a student I want to login so that I can view personal student information | 1 | 5 | Student can successfully login and view information personal to them | **Student** | Account |
| 2 | As a student I want to view my grades so that I can track my class progress individually | 3 | 1 | Student can view grades personal to the class selected | **Student** | Grading |
| 3 | As a student I want zoom access so that I can view my classes from my portal | 3 | 1 | Student can access the class zoom | **Student** | Zoom |
| 4 | As a student I want to view my assignments so that I can complete my homework | 3 | 2 | Student can access the assignments and view all the proper information | **Student** | Assign |
| 5 | As a student I want to be able to turn in my assignments so that I can track my work | 2 | 2 | Student can upload their information and the software accepts the submission | **Student** | Assign |
| 6 | As a student I want to be able to take exams so that I get graded in one place | 2 | 3 | Student can take the exams and all their submission information is saved | **Student** | Assign |
| 7 | As a student I want to be able to take quizzes so that I can get graded in one place | 2 | 3 | Student can take the quizzes and all their submission information is saved | **Student** | Assign |
| 8 | As a student I want to view class modules so that there is separation of my classes | 3 | 1 | Student can view the individual modules that belong to a single course | **Student** | Module |
| 9 | As a student I want to view the class email list so that I can contact my classmates | 3 | 1 | Student can see and click/copy email links and the proper email is returned | **Student** | Account |
| 10 | As a student I want to be able to chat with the professor directly so that I don't have to wait for email | 1 | 5 | Student can chat with the professor personally | **Student** | Zoom |
| 11 | As a student I want to be able to chat with the students directly so that I don't have to wait for email | 1 | 5 | Student can chat with other students personally | **Student** | Zoom |
| 12 | As a educator I want to be able to login so that I have all my personal information for each class I teach | 1 | 5 | Educator can successfully login and view information personal to them | **Educator** | Account |
| 13 | As a educator I want to be able to Grade exams so that I have control over my students exams | 3 | 3 | Educator can grade exams(individual questions allow a score) | **Educator** | Grading |
| 14 | As a educator I want to be able to grade assignments so that my students have a fair chance | 3 | 3 | Educator can grade assignments(individual questions allow a score) | **Educator** | Grading |
| 15 | As a educator I want to be able to grade quizzes so that my students will have a fair choice | 3 | 3 | Educator can grade quizzes(individual questions allow a score) | **Educator** | Grading |
| 16 | As a educator I want to have grade automation so that I can grade faster with multiple choice or fill in the blank questions | 3 | 2 | Educator can view the questions that the software automatically graded(Fill in the blank & multiple choice questions) | **Educator** | Grading |
| 17 | As a educator I want to be able to upload assignments so that my students can have direct access to their classwork | 2 | 5 | Educator can upload assignments successfully and the material is saved | **Educator** | Upload |
| 18 | As an educator I want to be able to upload exams so that my students will have access to exams that are to be take home | 2 | 5 | Educator can upload exams successfully and the material is saved | **Educator** | Upload |
| 19 | As an educator I want to be able to upload quizzes so that my students will have access to take home quizzes | 2 | 5 | Educator can upload quizzes successfully and the material is saved | **Educator** | Upload |
| 20 | As an educator I want to be able to create assignments so that my students can complete their work on the portal | 2 | 3 | Educator can create and save assignments | **Educator** | Create |
| 21 | As an educator I want to be able to create exams so that my students can complete their exam through the portal | 2 | 3 | Educator can create and save exams | **Educator** | Create |
| 22 | As an educator I want to be able to create quizzes so that my students can complete their quizzes through the portal | 2 | 3 | Educator can create and save quizzes | **Educator** | Create |
| 23 | As an educator I want to be able to designate grade weights so that my students have fair grades | 3 | 2 | Educator can designate weights to gradings sections(quizzes, exams, assignments, etc.) | **Educator** | Grading |
| 24 | As an educator I want to be able to create groups so that my students can get graded on a group basis | 2 | 5 | Educator can view and assign groups. The group members all connected to the designated assignments. | **Educator** | Create |
| 25 | As an educator I want to have access to create zoom sessions so that I can have class sessions | 2 | 3 | Educator can open a zoom session and all the students have access to the same session | **Educator** | Zoom |
| 26 | As an educator I want to be able to create modules so that all the material is organized by week or topic | 2 | 3 | Educator can create module sections and add content into the sections | **Educator** | Module |
| 27 | As an educator I want to be able to have timed exams so my students do not go over time | 2 | 3 | Educator can designate a time for exams and the software keeps track of the timer & time is allowed to be increased. | **Educator** | Create |
| 28 | As an educator I want to be able to set deadlines so that my students have to follow time frames | 2 | 3 | Educator can set deadlines(time & date) for any assignments, quizzes, exams, etc. | **Educator** | Create |
| 29 | As an educator I want to be able to modify grades just in case a incorrect grade value was entered | 3 | 3 | Educator can modify any existing grade for individual students or groups of students | **Educator** | Grading |
| 30 | As an educator I want to be able to access student emails so that I can send them reminders | 1 | 5 | Educator can view the student emailing list and is able to click/copy the emails | **Educator** | Account |
| 31 | As an educator I want to be able to track attendance so that I may give proper grades or kick students from my class | 1 | 3 | Educator can track attendance by the zoom call | **Educator** | Attendance |
| 32 | As an educator I want to be able to kick students from the zoom so that I can have a clear instruction period | 1 | 3 | Educator can drop students from the zoom call(boot them from the session) | **Educator** | Zoom |
| 33 | As an educator I want to be able to upload other materials so that my students can be prepared for any assignment, quiz, or exam | 2 | 3 | Educator can upload any type of file and the file is saved | **Educator** | Upload |
| 34 | As an educator I want to be able to send reminders so that my students do not forget about upcoming events | 1 | 3 | Educator can set reminders and the students can receive the reminders | **Educator** | Message |
| 35 | As an educator I want to be able to automate reminders so that I do not forget to remind my students about class events | 1 | 5 | Educator can set up reminders that have a date & time to be sent to the students automatically | **Educator** | Message |
| 36 | As an educator I want to be able to hold zoom sessions during exams so that I can make sure my students are not cheating | 1 | 5 | Educator can hold a zoom session simultaneously as the students are taking an exam | **Educator** | Zoom |
| 37 | As an educator I want to be able to hold zoom sessions during quizzes so that I can make sure my students are not cheating | 1 | 5 | Educator can hold a zoom session simultaneously as the students are taking a quiz | **Educator** | Zoom |
| 38 | As an educator I want to have access to plagiarism tools so that I can make sure my students are doing their own work | 3 | 5 | Educator can see if any of the students plagiarized | **Educator** | API |
| 39 | As an educator I want access to cheating prevention tools so that I know my students are not conversing on tests | 3 | 5 | Educator can see if any of the students cheated | **Educator** | API |
| 40 | As an admin I want to be able to login so that I can manage other accounts or information | 1 | 5 | Admin can successfully login and view information personal to them | **Admin** | Account |
| 41 | As an admin I want to be able to sign up to that I can give my school access to the application | 1 | 5 | Admin can successfully sign up themselves for the program | **Admin** | Account |
| 42 | As an admin I want to be able to mass add students so that they have access to their course materials | 2 | 3 | Admin can mass add students with a .csv file | **Admin** | Account |
| 43 | As an admin I want to be able to mass add educators so that they have access to their course | 2 | 3 | Admin can mass add educators with a .csv file | **Admin** | Account |
| 44 | As an admin I want to be able to individually modify students so that I can remove students or anything else I have to do | 3 | 3 | Admin can modify any students basic information for their profile | **Admin** | Account |
| 45 | As an admin I want to be able to individually modify educators so that I can remove educators or anything else I have to do | 3 | 3 | Admin can modify any educator basic information for their profile | **Admin** | Account |
| 46 | As an admin I want to hold zoom sessions so that I can update educators and other admins | 1 | 2 | Admin can hold a zoom session and select the individuals who are allowed to attend | **Admin** | Account |
| 47 | As an admin I want to add the school account so that I can add all the educators and students | 1 | 3 | The admin can add school(s) they are associated with | **Admin** | Account |

**Figure 2: Product Backlog for the Virtual Dashboard Classroom Web App**

* Testing – Test in phases along with each feature developed. This testing concept goes hand in hand with the build portion of phase 2.

**Phase 3: Deploy and Maintain**

* Deploy the application.
* Run tests on the application as a part of the maintenance portion of this phase.
* Have users test the application revealing any other issues with the program.

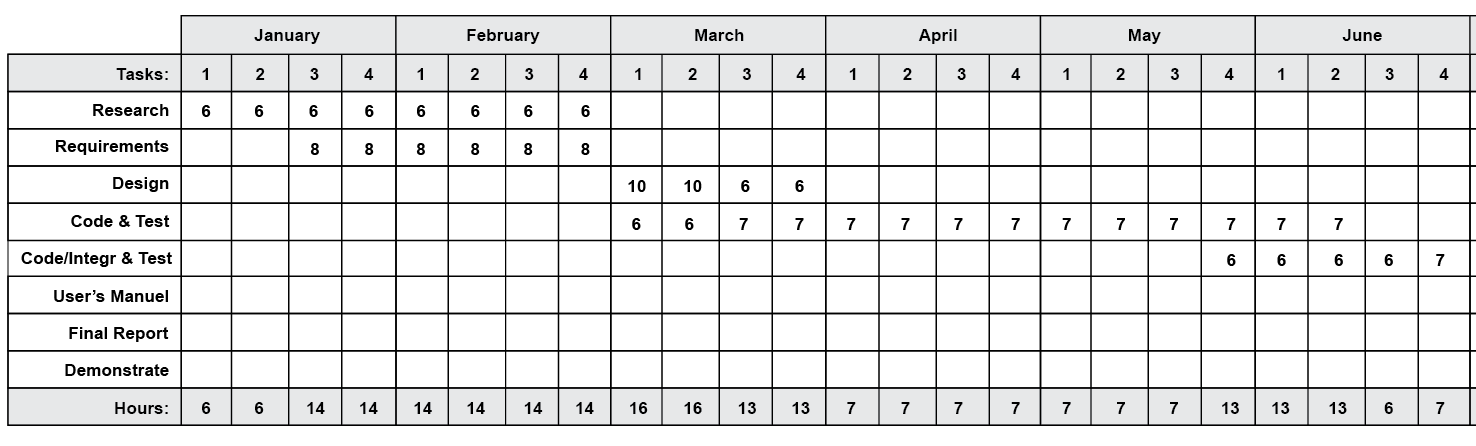
**Phase 4: Documents and Demonstrations**

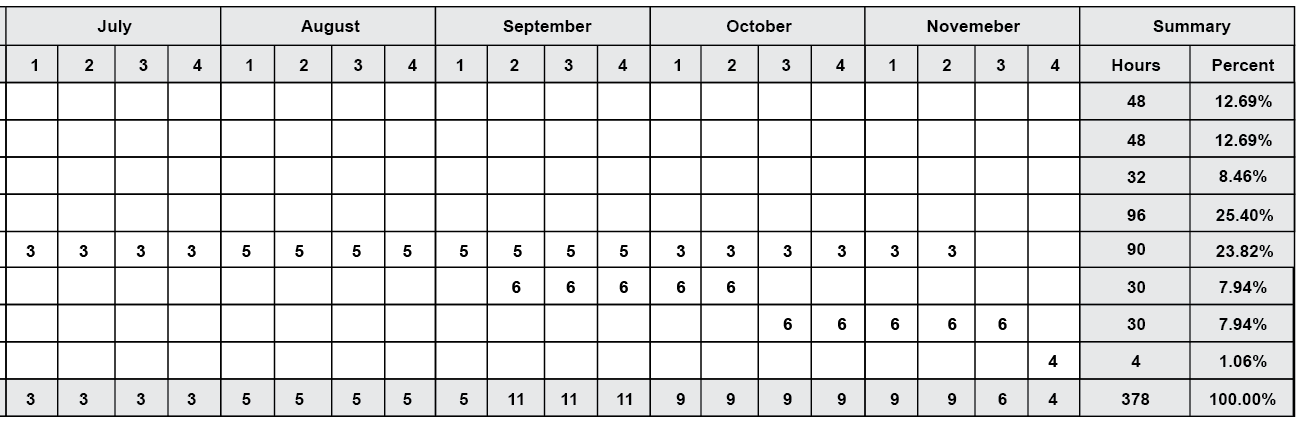
* User’s Manual
* Final Report
* Demonstration

1. Development and Architecture
   1. Development Environment

The Full-Stack Application is a C# ASP.Net internet application hosted using a cloud-based web server. It is cross-browser compatible and responsive for all device types. This application works on any operating system because it is a web-based application. The main languages used for software development are HTML5, CSS3, JavaScript, embedded SQL statements, and C#. It also uses an MSSQL relational database using constraints and keys. The tools used to develop this application were Visual Studio 2019, Microsoft SQL Server (for development), GitHub, Azure Database(for deployed application), and a web server hosted in the cloud provider Azure.

* 1. Schedule





**Figure 3: Virtual Classroom Dashboard Project Timeline**

* 1. Diagrams

The most important part of a development project is the planning section. In this section, a description of how the project was developed will be described in detail. The VCD project was developed as a website application, and the design of the website must follow contrast, alignment, repetition, proximity (CARP), flexibility, and usability principles to be a successful app. A contrasting site will have easy colors for the eye and are not of similar color value. It will also have text varying in size depending on the importance and easily identified elements. The website also must contain elements that align depending on importance and structure. There must be repeating elements to keep consistency with branding and follow the website's flow to navigate the application easily. A web application must be interchangeable between tablets, phones, desktop computers, or other devices. It must also adapt between user needs.

* + 1. Design

Virtual Classroom Dashboard was designed with colors to contrast the white background. The colors within the application are green, blue, light-medium grey, black, and white. These values represent an earthy and modern feel to promote education and a relaxing ambiance. These colors are represented by hex codes in Cascading Style Sheets in the application. The logo created for VCD was to promote structure through the column sections and the edgy font. To break up content within a webpage, a page divider was created. This divider separates content and breaks up a page if it surpasses two-page scrolls*. Figure 4* represents these webs style preferences and was created to ensure the consistency of the web application in the case that another developer is to take over this project.

Logo

Description automatically generated with medium confidenceLogo

Description automatically generated with medium confidence

**Figure 4: VCD Style Guide**

*Figure 5* is a sample implementation of how the website looks, implementing the style guide design elements in *Figure 4*. It shows the navigation using the subheading text, the logo for VCD, buttons, and general texts. The sample provides how each element should flow across each device type and includes the maximum and minimum pixel sizes for each device type. This graphic is to be used as a reference for future additions of new features.



**Figure 5: Sample Implementation**

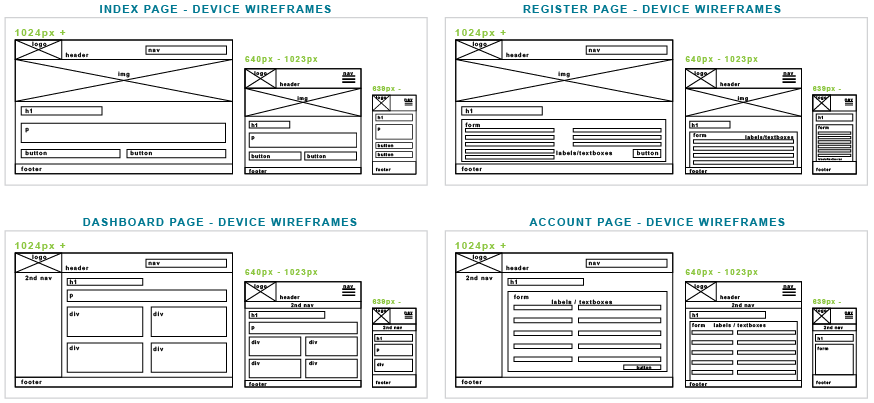
* + 1. User Interface Diagrams

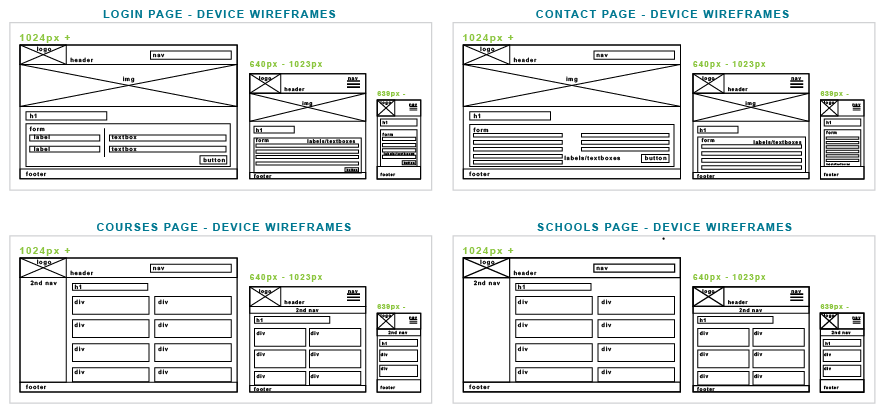
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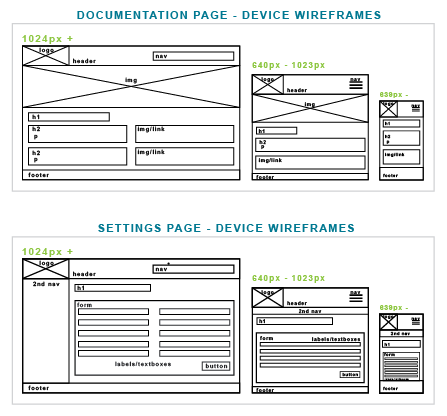
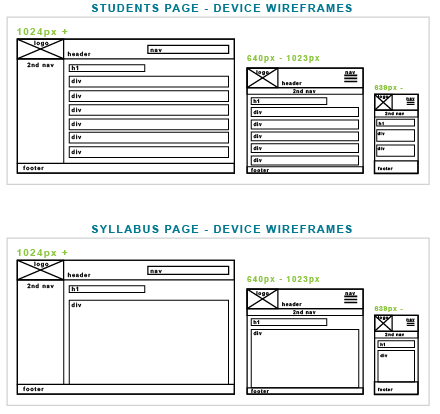
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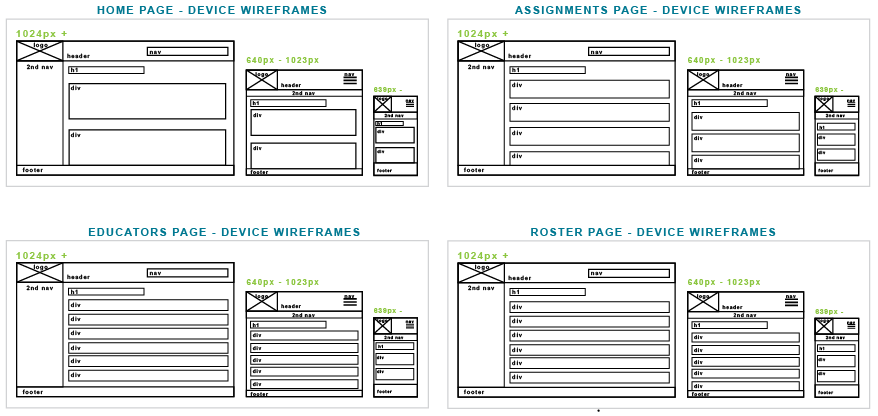
**Figure 6: Sitemap**

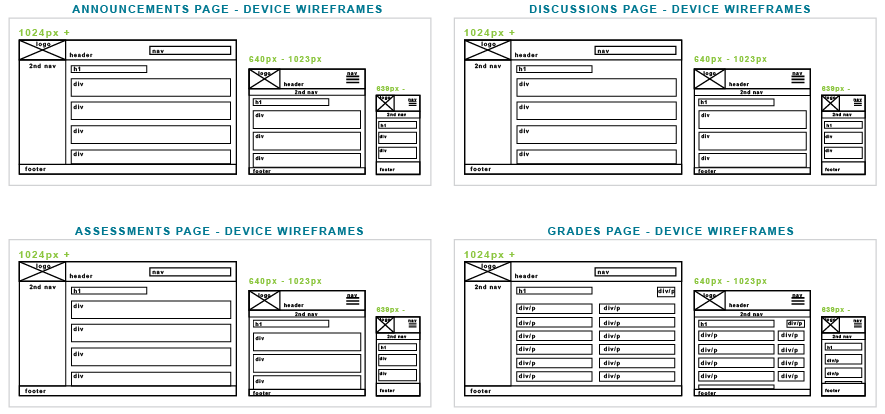
*Figure 6*, Sitemap, represents the structure of the web application starting from the index or home page to user-specific pages. The flow of the websites begins with the non-authorized user pages, index, login, register contact, and documentation. The next part of the sitemap consists of authorized user flow. Administrators access their personalized dashboards, accounts, schools, announcements, students, and teachers. The students and teachers have access to their personalized dashboards, accounts, courses, assignments, announcements, discussions, assessments, grades, syllabus, and roster. *­Figure 7*, Wireframes, is the bare-bones structure of each page within the sitemap, including other pages that were used to create this application.









**Figure 7: Wireframes**

* + 1. User Flow Diagrams

Diagram

Description automatically generated

**Figure 8: User Flow Diagram**

*Figure 8*, User Flow diagram, displays the non-specific user flow diagram. It shows how an individual starts at the homepage and makes their way to either login as any user or register as an administrator. The first type of flow depicts a user moving to the login page and having the option to decide if they have an account already or not. If the user already has an account, they will be asked for their username and password and then directed to the appropriate dashboard, depending on their credentials. If they do not have an account and are an administrator of a school, then they may register for an account. After they register for an account, they will be directed to the administrator’s dashboard to manage their school. The second flow is only for admin users to register. However, if another user or an existing user accidentally went to the registration page, they can redirect to the login page.

*Figure 9*, Admin Flow Diagram, shows the capabilities of the administration's role. The role of the admin is allowed to manage the other types of users (students and teachers). They can also update their personal information in the account/profile section. Figure 10, Educator Flow Diagram, displays the complex flow of a teacher/educator. In the teacher role the user begins at their dashboard and can view their profile or courses. They can also add discussions, assignments, and assessments. The assessments can either be a quiz or an exam. From this decision, they can add questions and answers that can then be added to the database. The educators can also submit grades for the students. *Figure 11*, Student Flow Diagram, has similar capabilities as other users, such as viewing their courses or updating their personal information. Students can also respond to discussion postings, take tests, or view their grades.

**![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD+RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAiAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFtYmVyIEtpbWJlcmxpbmcAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAM2NAAAkpIAAgAAAAM2NAAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Figure 9: Admin Flow Diagram**

**![A picture containing text, calculator, electronics, remote control

Description automatically 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**Figure 10: Educator Flow Diagram**

**![A close-up of a calculator

Description automatically generated with medium confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD+RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAiAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFtYmVyIEtpbWJlcmxpbmcAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAM2MwAAkpIAAgAAAAM2MwAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Figure 11: Student Flow Diagram**

* + 1. Database Design

Diagram, timeline

Description automatically generated

**Figure 12: VCD ER Diagram**

*Figure 12* and *13* are complete diagrams of the functional requirements and entity relationships for the Azure database that the web application uses to store data. It describes each attribute in each relation. This diagram displays the relationship between each table including the primary and foreign keys. Each of these tables works cohesively with the web application and follows the rules of normal forms. Each one of these tables is in the third or fourth normal form. The tables that include id’s use a trigger to ensure no id is the same and increase according to the current maximum id.

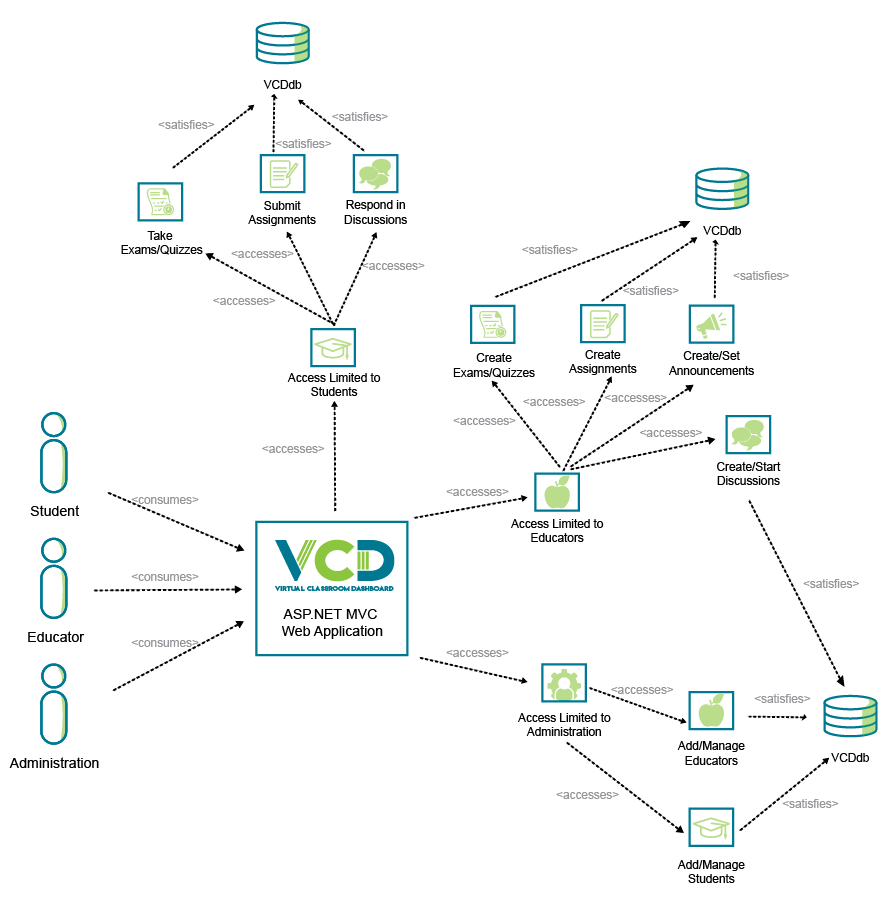
**Timeline

Description automatically generated**

**Figure 13: Functional Requirements**

* + 1. System Architecture and Design

*Figure 14* displays the interaction between the user and the application's various features. A student can access only quizzes, assignments, and discussions. The actions that a student can make are taking an exam/quiz, submitting assignments, and responding to discussions. A teacher or educator may access the same set of tools as the student, except the teacher can manage the content available. The teacher may create or edit an exam, assignment, or announcement. Lastly, an admin may strictly manage the educators and students within the school. Every change made by any user is then stored within the VCD database on Azure.



**Figure 14: Concept of Operations Diagram**

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD+RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAiAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFtYmVyIEtpbWJlcmxpbmcAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAM5NgAAkpIAAgAAAAM5NgAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAorE8YahdaX4Wubuwl8qdHiCvtDYDSqp4II6E0eJNQurCTRhaS+WLnU4oJflB3IVYkcjjoORzQBt0ViyeMNCineGS/VWjlMMhMb7Y3DbSGbGF5HUkA1Y1DxDpel3CwX12I5WXftVGcqv8AebaDtHucCgDSorltB8Uxp4P0y/1+6Zri6RyXSBmLYYgnCLwAMdqm1DxpYWWrabarumhvoml8+ON3CqACuAqndn26Y560AdHRWXJ4l0iK+NpJeASrIImOxiiuf4S+NoPPQnNVPFl7e2sOlxaddG0e81GO2eVY1chWVicBgR2FAG/RXMvdatoOsWEWo366lY3832cSPCsckUhBK/dwCDg9qvweKdHuZZI4bpi6RtLtMEgLqoySuV+f/gOaAL95Y2t/F5d5Aky9tw6fQ9qxDoOoaU2/w/eny85NrcHKn6Ht/nml0TxnY6rob6jMslt5TESJ5UjBcuVXB2/MTjoM4zitbTdWstXgabT5/NVG2OCpVkb0KsAR+IrCpQhUd2rPutGS4p6mZb+KFhmFvrdrJp8/QMwyjfQ/5HvW7HIk0YeJ1dG5DKcg/jTbi2huojFcxJKh6q65FYUnhqaxkM3h69e1YnJgkO6Nv8/jWd69Lf319z/yf4E+9HzOhorno/Es1jIIfENk9qxOBPGN0bf5/Gt23uYbqES20qSoejI2RWtOvTqaRevbr9xSknsSUUgYNnaQcHBwehpa2KCiiigAooooAKz9d+XSJJe8LpLn02uD/StCs/XXEegXrMjSDyWBC9eRjP4Zz+FZVv4UvRky+FmhRVDRL46lo0F0ybC4Ixuz0JGf0q/VwkpxUlsxp3VwoooqhhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBleJdKk1vw5d2EDrHLIFMbN0DKwYZ9sqKzJLfWNe1DTP7R0wadb2FwLqRzOshldVIVVC9ssTk4rqKKAPPbGPU7zS/EumWGmRzpe6ndxfaWmVVi3NgllPJx1GM1rW+mapoOtXU1lYjU4ry3gj8wzLGYmjTZ827qp68ZPXiuohtoLYOLeGOLzHMj+WgXcx6scdSfWpKAOBstD1+z0bR7Ga1mmtobeRJ7a2vRARKXyrM4IJTb2Bz7VNYaHq+mWvhaYWHny6bHPFcQLMgYeZgBgScEDHr3ruKKAOBj8K3UPnade2F/fWktw7CaHVDHEyM+7LRlhgjPYHOM1v8AiyzvrqHS5dNtDdvZ6jHcvEsioSiqwOCxA7it+igDl7qy1rX721nubSPTYLFmnhiklEryT7SELbeAq5J6kms3StF1o+INFvdQs7kSWpl+13E9+Jd5aJlyiA4Vd3YAHkccV3VFAHEWumeIrHwmulW1rJG9rdlnkhuURrqFpHZhG2coeV6471peFNKu9Ov9XmurSS1iupInhWS589sBMHLEk5z6/hkV0tFABRRRQA2SNJoykqK6NwVYZB/Cua1fQ4NJtptT0q5lsJIxuKIco/oMfX8PaunorCtRhVjrv0fYmUVJHlena/fadfPcxyl/NYtKj/dkJ/r716Ho+uWmswbrdtsij54mPzL/AIj3p9zoum3mTcWULE9WC4b8xzWXL4NtEkE2mXE9lOvKsrbgP6/rXnUMPi8K9GpR7dfkYxjOHmjoqKp6ZHfxWmzVJY5pgxw8Yxle2ferletGXNFO1jdaoKKK5jXPH+i6Je/YA02oajnH2Oxj82QH0PYH2zn2rSMZSdooipUhTV5ux09NkjWWJo5BuR1KsD3Brih408TT/NZ+A75k9Z7pYT+RWl/4S7xh/wBCBL/4M4//AImr9jLrb71/mY/WqXn/AOAy/wAjp9Fs3sNHhtZRho9w6g8bjg8e1X64n/hLvGH/AEIEv/gzj/8AiaP+Eu8Yf9CBL/4M4/8A4mphh3CKiraea/zEsVSStr/4DL/I7aiuJ/4S7xh/0IEv/gzj/wDiaP8AhLvGH/QgS/8Agzj/APiar2MvL71/mP61T8//AAGX+R21FcT/AMJd4w/6ECX/AMGcf/xNH/CXeMP+hAl/8Gcf/wATR7GXl96/zD61T8//AAGX+R21FcT/AMJd4w/6ECX/AMGcf/xNH/CXeMP+hAl/8Gcf/wATR7GXl96/zD61T8//AAGX+R21FcPL4y8WwxNJJ4ClCKMk/wBpJx/47VRfifqEJzqXg+/iQfea3lE2B+QpOm07Nr71/mJ4yit7r5P/ACPQ6KwvDvjLRfFCsNLuszoMvbSjZIn/AAE9fqMit2olFxdmdEJxqR5oO6CiiikWFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAcj491u9tLez0TQm26rrEhhicH/UoPvv7YB6/U9q0/DHhTTvC2niCxj3zsMz3Tj95M3ck+nt2rCVft3xwcyjK6fpH7v2Zn6/kxFdxW03yxUV6s46UVUqyqy6Oy8rb/ewooorE7AooooAKKKKACiiigAooooARlDqVYZBGCPWuIu4DbXksJ/gYge47V3Fc14kh2XscoHEiYP1H+RXBjoXpqXYyqLS5xWvaD9rxqOlE2ur2x8yC4i4LEfwn1z05/lkV3vg3xEvijwvbaiVCT8x3EY/gkXqP5H6EVz1RfDFjBrniqxXiKO7jnUDoDIGJ4/4CKvAVZVKcqcvs6r8rHFD93iFy7Svf1te/5nodFFFdh6QUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBxNh/yWzVf+wVH/wChLXbVxNh/yWzVf+wVH/6EtdtWtXdeiOXDbS/xP8wooorI6goorm9N8c6Tqnj7V/CFutwupaTFHNMXVfLkVlU/IQxJxvUHIHJ70AdJRXN6N460nXvGWteGrAXBvNFCfaJWQCJi3ZTnJIPByByOM10lABRWP4q8S2fhDw3ca3qUc8ttbvEjJbqGcmSRYxgEgdXGeema2KACisfTPEtnqviTW9Et451udFeFLh3UBHMsYkXYQSTwecgc+tbFABWN4ljzZRP3WTH5j/61bNZuvLnSJD/dZT+tYYhXpSJl8LOTqH4cf8jh4u/37X/0F6mqH4cf8jh4u/37X/0F648t3qen6o8+X8an6v8A9JZ6JRRRXpnpBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAHE2H/JbNV/7BUf8A6EtdtXE2H/JbNV/7BUf/AKEtdtWtXdeiOXDbS/xP8wooorI6gr5/1K/PhjxfrvxECNJFpfieXT71VH3reS1hTn/dkERFfQFUX0PSZLW5tX0uza3u5fPuYjboUmkyDvcYwzZUHJ54HpQB4LbrrngGbVL6yh87X7jwZ/adz8mT9pe8d5XI77BN09ErqobsaJ4j8Hnwt4zv/EkmsXXl31tc332lJrcxsz3AX/lltIB+XA5wa9WOn2Z1EagbSA3ohMAuTEPM8sncU3YztyAcdM1W07w7oukXU1zpOj2FjPP/AK2W2tUjaTv8xUAn8aAPn7xHe/298G7nxBrniq9/t651FIp9HN7thjK3ir5At+xVVDZxuOMk4NdDr2reK9Z8YeKbW01CPTrnS7hYrASa+bFbdPLVklaDymE6sSSSxxgFRt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**Figure 15: System Security and Architecture**

*Figure 15* displays the architecture of the web application and the security procedures. Users will enter the data, and the website will collect the data entered by the users or respond to the actions made by users. Then the application sends a request to the Azure server, and the server responds with either a session id or a different response depending on the request. The website has the MVC pattern, which provides a separation of concerns for higher modifiability. It also has security measures of authorization, authentication, and encryption (Hashing algorithms).

1. Testing Plan and Implementation
   1. Introduction

This test plan describes the testing objectives, scope, approach, resources, and schedule of the planned testing activities for the Virtual Classroom Dashboard Website Application. It also identifies the items, features, and types of testing performed. The plan describes the resources and schedule required to complete testing and the risks associated with each test to be performed.

* 1. Test Objectives

The objectives of this plan are to do the following:

1. Verify the functionality

2. Focus on user-specific operations

3. Guarantee the capabilities of the operations

4. Verify the status Security – (Authorization, Authentication, Encryption, etc.)

5. Verify the status Usability

6. Verify the status of Performance

7. Verify the status of compatibility

* 1. Scope

This section discusses what this plan covers and does not cover in test cases. The various parts of testing begin with determining the types of testing used, problems perceived, the testing environment, and what will be tested.

* 1. Test Types

This section describes the type of tests that will take place during the development phase and the testing phase of the software life cycle.

**Unit Testing 🡪** Testing smallest pieces of the web application that is verifiable software.

**Integration Testing 🡪** Testing software modules as individuals and then as a whole.

**System Testing 🡪** Testing the completed software against the specification requirements documentation.

* 1. Problems Perceived

This section describes the perceived problems for testing the software.

1. Scheduling issues
2. Automated testing problems
3. Test’s handling requirement changes
4. Tool Selection
5. Amount of automation Testing
   1. Environment

Recommended browser for best optimization of the website’s capabilities: Chrome. *Figure 16* represents what is needed to test the applications abilities to perform.

Diagram

Description automatically generated

**Figure 16: Testing Environment**

* 1. Mind Map for Testing

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RD+RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAiAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEFtYmVyIEtpbWJlcmxpbmcAAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAMwMwAAkpIAAgAAAAMwMwAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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UUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXN+NvDR8RaQPs+BeWxLQ5/iz1X8cD8QK6SigD5zlikgmeKZGjkQlWRhgqfQimV7h4h8HaZ4hBknQwXWMC4iHP4jvXn+o/DTW7RybMRXsfYo4Vse4b+hNVcRx9Fa0nhbXovvaReHnHyws38qj/4RzW/+gPqH/gK/+FAGbRWl/wAI5rf/AEB9Q/8AAV/8KP8AhHNb/wCgPqH/AICv/hQBm0Vpf8I5rf8A0B9Q/wDAV/8ACj/hHNb/AOgPqH/gK/8AhQBm0Vpf8I5rf/QH1D/wFf8Awo/4RzW/+gPqH/gK/wDhQBm0Vpf8I5rf/QH1D/wFf/Cj/hHNb/6A+of+Ar/4UAZtFaX/AAjmt/8AQH1D/wABX/wo/wCEc1v/AKA+of8AgK/+FAGbRW7b+C/ENy22PS5l95cIP/HiK6fR/hZKzrJrd2qJ1MNvyT9WPT8AfrQByvhnw5c+I9UWCIMtuhBnmxwi/wCJ7CvcbeCO1to4IECRRIERR2AGAKisNPtNLs0tbCBYIU6Ko/Unufc1ZpDCiiikAUUUUAcb4z8DrrZN9pm2O/A+dTwsw/off868qvLG60+5a3voJIJV6q64/wD119D1XvdPtNRh8q/toriPssiBsfT0p3A+eKK9lufhx4euHLJBNb57RSnH65qofhZon/P1fj/ton/xFO4jyWivWv8AhVeif8/Wof8AfxP/AIij/hVeif8AP1qH/fxP/iKLgeS0V61/wqvRP+frUP8Av4n/AMRR/wAKr0T/AJ+tQ/7+J/8AEUXA8lor1r/hVeif8/Wof9/E/wDiKP8AhVeif8/Wof8AfxP/AIii4HktFetf8Kr0T/n61D/v4n/xFH/Cq9E/5+tQ/wC/if8AxFFwPJaK9a/4VXon/P1qH/fxP/iKP+FV6J/z9ah/38T/AOIouB5LRXrsfwv0JD80t7Jz/FKv9FFbGneENC0tg9rp0RkHIeXMhH03Zx+FK4HmPhvwPqOuyJLOjWlj1MzrguP9kd/r0/lXr+n2FtpdhFZ2UYjhiGFUfzPqas0UhhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQB//9k=)

**Figure 17: Testing Mind Map**

*Figure 17* shows the attributes and abilities that need to be tested. This application is tested based on its security, functionality, user interface, compatibility, usability, and performance. The website's security relied on its ability to hold authorization and authentication of its users and the application’s password encryption. Its functionality tests its functional elements like logging in, updating, managing, etc. The user interface elements such as buttons, links, and images were tested to see if they all did what they needed. A compatibility test determines the devices and browsers that the web application will work with. The usability test is for understanding if the application can be used with ease and improved to increase usability. Lastly, performance is needed to test how much stress can be placed on an application, such as an influx of users or actions carried out by the server and database.

* 1. Functionality

**An X indicates that the test does not apply to that user interface. This section will include screenshots showing whether it worked or not, plus any necessary descriptions. Green Text signifies that the action is working. Red Text signifies an action that does not work or is faulty.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Functionality Testing | | | | |
| Function | Admin | Teacher | Student | Gen. User |
| Navigation links | Dashboard  ------------  Zoom  ------------  Manage  Students  ------------  Manage  Educators  ------------  Add Users  ------------  Account | Dashboard  ------------  Zoom  ------------  Account | Dashboard  ------------  Zoom  ------------  Account | Login  ------------  Register  ------------  Contact  ------------  Documentation |
| Homepage links | X | X | X | Login  ------------  Registration |
| Registration | X | X | X | Results: |
| Login | Result: | Result: | Result: | Results: |
| Contact Form | X | X | X | Submit  Note: the submit button displays an action but does not send an email |
| Logout | Returns to Login | Returns to Login | Returns to Login | X |
| Add User | Works | X | X | X |
| Manage Teachers | Works | X | X | X |
| Manage Students | Works | X | X | X |
| Account | Works for the addition of either a phone number or a new password | Works for the addition of either a phone number or a new password | Works for the addition of either a phone number or a new password | X |
| Add Courses | X | Works | X | X |
| Manage Courses | X | Works | X | X |
| Add Students | X | Works | X | X |
| Announcements | X | Works |  | X |
| Create Announcements | X | Works | X | X |
| Discussions | X | Works | Works | X |
| Discussion | X | Works | Works | X |
| Discussion Reply | X | Works | Works | X |
| Add Discussions | X | Works | X | X |
| Assignments | X | Works | Works | X |
| Assessments | X | Works | Works | X |
| Grades | X | Works | Works | X |
| Syllabus | X | Works | X | X |
| Roster | X | Works | Works | X |

**Figure 18: Functionality Testing Chart**

* 1. Security

**An X indicates that the test does not apply to that user interface. This section will have a Pass or Fail plus a screen shot showing the results.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Security Testing | | | | |
| Function | Admin | Teacher | Student | Gen. User |
| Authentication | N/A | N/A | N/A | X |
| Authorization | Cannot Access Teacher or Student Pages  Resulting pages:  Teacher Attempt    Student Attempt | Cannot Access Admin or Student Pages  Resulting pages:  Admin Attempt    Student Attempt | Cannot Access Admin or Teacher Pages  Resulting pages:  Admin Attempt    Teacher Attempt | Cannot Access any other user interface other than the main navigation options  Resulting pages:  Admin Attempt    Teacher Attempt    Student Attempt |
| Cross-site scripting | Attempted to add cross-site scripting across multiple pages and no actions occurred. Recommendation is to go more in depth with testing for this type of attack. | | | |
| SQL injection | Attempted to inject SQL statements and no harm was done to the website. Recommendation is to continue testing for SQL injection weaknesses | | | |

**Figure 19: Security Testing Chart**

* 1. Performance

This web Application’s performance will be tested through <https://pagespeed.web.dev/?utm_source=psi&utm_medium=redirect>. These Screenshots result from testing the individual performance of each page of the web application for mobile and desktop use. The golden range for performance is between 90 and 100.

|  |  |  |
| --- | --- | --- |
| **Performance Testing** | | |
| **Page** | **Mobile** | **Desktop** |
| Index |  | Graphical user interface, application  Description automatically generated |
| Login | Graphical user interface, text, application, chat or text message, email, website  Description automatically generated | Graphical user interface, text, application  Description automatically generated |
| Registration | Graphical user interface, text, application, chat or text message, email  Description automatically generated | Graphical user interface, application  Description automatically generated |
| Contact | Graphical user interface, text, application, website  Description automatically generated | Graphical user interface, text, application  Description automatically generated |
| Documentation | Graphical user interface, text, application, email, website  Description automatically generated | Graphical user interface, text, application  Description automatically generated |
| **Admin** | | |
| Dashboard | Graphical user interface, text, application, email, website  Description automatically generated | Graphical user interface, text, application  Description automatically generated |
| Zoom | Graphical user interface, text, application, email, website  Description automatically generated | Graphical user interface, text, application  Description automatically generated |
| Manage Students | Graphical user interface, text, application, email, website  Description automatically generated | Graphical user interface, text, application  Description automatically generated |
| Manage Educators | Graphical user interface, text, application  Description automatically generated | Graphical user interface, text, application, email  Description automatically generated |
| Add Users | Graphical user interface, text, application, email  Description automatically generated | Graphical user interface, text, application  Description automatically generated |
| Account | Graphical user interface, text, application  Description automatically generated | Graphical user interface, text, application, chat or text message  Description automatically generated |
| **Teacher/Educator** | | |
| Dashboard | Graphical user interface, text, application, chat or text message, email, website  Description automatically generated | Graphical user interface, text, application  Description automatically generated |
| Add Course | Graphical user interface, text, application, email, website  Description automatically generated | Graphical user interface, text, application, website  Description automatically generated |
| View Courses | Graphical user interface, text, application, Word  Description automatically generated | Graphical user interface, text, application  Description automatically generated |
| Add Students |  |  |
| Zoom | Graphical user interface, text, application  Description automatically generated | Graphical user interface, text, application  Description automatically generated |
| Create Announcement | Graphical user interface, text, application  Description automatically generated | Graphical user interface, text, application  Description automatically generated |
| Announcements | Graphical user interface, text, application  Description automatically generated | Graphical user interface, text, application  Description automatically generated |
| Add Discussion | Graphical user interface, text, application, email, website  Description automatically generated | Graphical user interface, text, application  Description automatically generated |
| Discussions |  |  |
| Discussion |  |  |
| Discussion Reply |  |  |
| Assignments |  |  |
| Assessments |  |  |
| Grade |  |  |
| Syllabus |  |  |
| Roster |  |  |
| Add Files |  |  |
| Files |  |  |
| Account |  |  |
| **Student** | | |
| Dashboard |  |  |
| Zoom |  |  |
| Announcements |  |  |
| Discussions |  |  |
| Discussion |  |  |
| Discussion Reply |  |  |
| Assignments |  |  |
| Assessments |  |  |
| Grade |  |  |
| Roster |  |  |
| Files |  |  |
| Account |  |  |

**Figure 20: Performance Testing Chart**

* 1. Usability

**Users Findings (three different users):**

A single web page is causing issues with the functionality of the web application. The Contact page does not send an email, and it does not show the confirmation page. The navigation among all the web pages is very user-friendly. Between each user type, all information is easy to find and easy to see.

**Users Recommendations(three different users):**

To increase usability within the web application, the following are recommended:

* The links between the different web pages should remain consistent even in the tables.
* The Contact page should be fixed with another language or find another solution that works.
* Add a dropdown menu for the navigation at device size 768 pixels.
* Increase the size of the fonts from 12 to 14 or add a settings menu for the user to determine the style settings.
* Add text to speech and speech to text.
* The increase of security measures is needed.
* More custom error handling would help if a database error occurred, so the user does not get an .aspx error page.
* This web application can also use more extensive testing in the future, especially if more features are added later.
* Some of the code can be condensed to help increase time efficiency.
  1. Compatibility

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Compatibility Testing (Chrome, Edge, Opera, and Firefox) | | | | |
| Screen Size + browser | 2000 px (Desktop) | 1024px (Laptop) | 768px (Tablet) | 400 px (phone) |
| Web App Pages |
| Homepage | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Registration | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Login | Chrome:    Edge:  Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Contact Form | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:  Opera:  Firefox: |
| Documentation | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:  Firefox: | Chrome:  Edge: Opera:  Firefox: |
| Admin Dashboard | Chrome:    Edge:    Opera:  Firefox: | Chrome:  Edge:  Opera:  Firefox: | Chrome:  Edge:  Opera:  Firefox: | Chrome:  Edge:  Opera:  Firefox: |
| Zoom | Chrome:  Edge:  Opera:  Firefox: | Chrome:  Edge:  Opera:  Firefox: | Chrome:  Edge:  Opera:  Firefox: | Chrome:    Edge:  Opera:  Firefox: |
| Add User | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:  Opera:  Firefox: | Chrome:  Edge:  Opera:  Firefox: | Chrome:  Edge:    Opera:    Firefox: |
| Manage Teachers | Chrome:  Edge:  Opera:  Firefox: | Chrome:    Edge:  Opera:  Firefox: | Chrome:  Edge:  Opera:  Firefox: | Chrome:  Edge:  Opera:  Firefox: |
| Manage Students | Chrome:  Edge:  Opera:  Firefox: | Chrome:  Edge:  Opera:  Firefox: | Chrome:  Edge:  Opera:  Firefox: | Chrome:  Edge:    Opera:  Firefox: |
| Account | Chrome:  Edge:  Opera:  Firefox: | Chrome:  Edge:  Opera:  Firefox: | Chrome:  Edge:  Opera:  Firefox: | Chrome:  Edge:  Opera:  Firefox: |
| Educator Dashboard | Chrome:  Edge:  Opera:  Firefox: | Chrome:  Edge:    Opera:    Firefox: | Chrome:  Edge:    Opera:  Firefox: | Chrome:  Edge:    Opera:    Firefox: |
| Student Dashboard | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Add Courses | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:  Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Manage Courses | Chrome:  Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:  Edge:    Opera:    Firefox: |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Add Students | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Syllabus | Chrome:    Edge:    Opera:  Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Announcements | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Add Announcements | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Discussions | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Add Discussions | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Files | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Add Files | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Assignments | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Assessments | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Grades | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |
| Roster | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: | Chrome:    Edge:    Opera:    Firefox: |

**Figure 21: Compatibility Testing Diagram**

* 1. Accessibility Analysis

This web application was tested through two free accessibility analyzers: Bureau of Internet Accessibility(BoIA) [23] and FAE [24]. The first test from the BoIA can be found at <https://www.boia.org/website-analyzed?domref=virtualclassroomdashboard.azurewebsites.net> and in ***Figure 22***. The second tests using FAE can be found in ***Figure 23***. Most of the Accessibility issues have been resolved and there are more tools that will be added in the future to help increase the accessibility of Virtual Classroom Dashboard.

|  |  |  |  |
| --- | --- | --- | --- |
| **Accessibility Testing: BoIA** | | | |
| **Results from the BoIA Accessibility Analyzer Tool** | | | |
|  | | | |
|  |  |  |  |
| **Percentage of Failure in Comparison to other Industries** | | | |
|  |  |  |  |
| **Compliance Issues** | | | |
|  | | | |
|  | | | |

**Figure 22: Accessibility Testing: BoIA Chart**

|  |  |
| --- | --- |
| **Accessibility Testing: FAE** | |
| **Page** | **Result** |
| Index | No violations of accessibility rules. |
| Login | No violations of accessibility rules. |
| Registration | Violations: Claims the select element is not labeled, but it is. |
| Contact | No violations of accessibility rules. |
| Documentation | No violations of accessibility rules. |
| **Admin** | |
| Dashboard | Violation: claims side navigation is not in a proper containing tag element. |
| Zoom | Violation: claims side navigation is not in a proper containing tag element. |
| Manage Students | Violation: claims side navigation is not in a proper containing tag element. |
| Manage Educators | Violation: claims side navigation is not in a proper containing tag element. |
| Add Users | Violation: claims side navigation is not in a proper containing tag element. |
| Account | Violation: claims side navigation is not in a proper containing tag element. |
| **Educator/Teacher** | |
| Dashboard | Violation: claims side navigation is not in a proper containing tag element. |
| Add Course | Violation: claims side navigation is not in a proper containing tag element. |
| View Courses | Violation: claims side navigation is not in a proper containing tag element. |
| Add Students | Violation: claims side navigation is not in a proper containing tag element. |
| Zoom | Violation: claims side navigation is not in a proper containing tag element. |
| Create Announcement | Violation: claims side navigation is not in a proper containing tag element. |
| Announcements | Violation: claims side navigation is not in a proper containing tag element. |
| Add Discussion | Violation: claims side navigation is not in a proper containing tag element. |
| Discussions | Violation: claims side navigation is not in a proper containing tag element. |
| Discussion | Violation: claims side navigation is not in a proper containing tag element. |
| Discussion Reply | Violation: claims side navigation is not in a proper containing tag element. |
| Assignments | Violation: claims side navigation is not in a proper containing tag element. |
| Assessments | Violation: claims side navigation is not in a proper containing tag element. |
| Grade | Violation: claims side navigation is not in a proper containing tag element. |
| Syllabus | Violation: claims side navigation is not in a proper containing tag element.  Violation: claims input has no label. |
| Roster | Violation: claims side navigation is not in a proper containing tag element. |
| Add Files | Violation: claims side navigation is not in a proper containing tag element. |
| Files | Violation: claims side navigation is not in a proper containing tag element. |
| Account | Violation: claims side navigation is not in a proper containing tag element. |
| **Students** | |
| Dashboard | Violation: claims side navigation is not in a proper containing tag element. |
| Zoom | Violation: claims side navigation is not in a proper containing tag element. |
| Announcements | Violation: claims side navigation is not in a proper containing tag element. |
| Discussions | Violation: claims side navigation is not in a proper containing tag element. |
| Discussion | Violation: claims side navigation is not in a proper containing tag element. |
| Discussion Reply | Violation: claims side navigation is not in a proper containing tag element. |
| Assignments | Violation: claims side navigation is not in a proper containing tag element. |
| Assessments | Violation: claims side navigation is not in a proper containing tag element. |
| Grade | Violation: claims side navigation is not in a proper containing tag element. |
| Roster | Violation: claims side navigation is not in a proper containing tag element. |
| Files | Violation: claims side navigation is not in a proper containing tag element. |
| Account | Violation: claims side navigation is not in a proper containing tag element. |

**Figure 23: Accessibility Testing: FAE Chart**

1. Results and Discussion
   1. Results

The resulting product of this project is a full-stack web application called Virtual Classroom Dashboard. This application was created for schools to provide a diverse learning environment for their students. It provides options for accessibility for most types of users. The accessibility tactics that are implemented into this web application are highly contrasting elements and alternate text for non-text elements. After testing for accessibility, several common errors were found among the style sheets and tags. The number one error that was user interface specific was that the secondary side navigation needed a bounding tag to denote the functionality of the elements. The other issues that occurred were the need for more contrasting colors and the proper use of heading tags. Other than the side navigation issues, each of these issues was solved.

The objects created for this application were all met except for the authentication technical objective. Each website page was tested thoroughly with performance, functionality, security, usability, and accessibility. The performance testing results displayed high levels between 96 and 100, which means the website is at top performance. Suppose the results displayed below 90 actions would need to be taken to increase performance levels. During the functionality testing, the contact form displayed working results, but it did not send an email. All other web application functionalities were fully functional, including links, actions, and buttons. The verification and validation of each form on the website behaved as they should.

The security testing results displayed that the roles were reserved between different users. The web application displayed resistance against cross-site scripting and SQL injection. The people who tested the application suggested that the web application needed to be tested further to improve the website's security. It was highly recommended to include authentication on the website. The testers determined that the application had some minor issues during the usability testing. Overall, the web application has high modifiability, and the Model View Controller pattern increased the separation of concerns with the web application.

The different individuals who tested the application made suggestions to improve the website's functionality, readability, and usability. These improvements included the following:

**Users Recommendations(three different users):** The links between the different web pages should remain consistent even in the tables.

* The Contact and Add Students page should be fixed with either another language or find another solution that works.
* Add a dropdown menu for the navigation at device size 768 pixels.
* Increase the size of the fonts from 12 to 14 or add a settings menu for the user to determine the style settings.
* Add text to speech and speech to text.
* The increase of security measures is needed.
* More custom error handling would help if a database error occurred, so the user does not get an .aspx error page.
* This web application can also use more extensive testing in the future, especially if more features are added later.
* Some of the code can be condensed to help increase time efficiency.
* Mass upload of new users in the admin interface.

Virtual Classroom Dashboard has a long way to go to educational institutions. There are more features needed to help improve the application, including functionality to help improve the accessibility of the website. More tests need to be conducted to help improve the sustainability of the application, including load testing and hacking. Although 95% of the objectives were met for this application, it still has a long way to go. This development project has taken over 300 hours and the knowledge of all the courses I took throughout my educational career. With more time and development this web application can be implemented into all levels of education.

* 1. Discussion

LMS’s are the future of education to manage and support students’ academics. These systems have capabilities of helping students with disabilities by providing text to speech, speech to text, alternative text to elements, and contrasting elements. Covid-19 was a big test against how well academics could adapt to online learning. Although online education is not a new concept, some schools found the initial turn to solely online classes a bit difficult. Individual professors found this problematic because their courses have been in a traditional in person classroom setting for many years.

Utilizing learning management systems can help simplify switching back and forth between online and traditional in person. If an LMS is equipped with the correct tools, any professor or student should succeed within the classroom no matter how academics are presented. There are several different learning styles. With more research into the effects of online, traditional in-class, and hybrid learning using an LMS, developers can better understand how to make existing tools better or create new ones.

The concept of accessibility is a big part of how web applications are developed. Accessibility involves contrasting text against elements, ensuring that individuals can navigate through the keyboard, and includes tools to help users with disabilities. It is with the highest importance to build an educational website application that is inclusive to all individuals. Education is a right that everyone needs access to. Building an application that utilizes the rules of inclusivity and that is always changing to match the needs of its users is vital to the future of education.

Implementing an online learning institution places higher importance on self-reliability between the students and the professors. If more research was conducted to motivate students and teachers to conduct classroom or learning activities more often or allow students to move at their own pace, it could increase one’s willingness to learn. Research needs to be continuously conducted to target what each generation needs to improve the learning and teaching process.

1. Conclusion
   1. Limitations

The limitations of completing this web application were time and the number of developers. Another limitation was limited knowledge. Time was the biggest hindrance to the completion of this web application. The timeline that was generated to complete this project was an estimation. During each phase of this project, more time was needed to complete each portion. With more developers, time would have been a minor factor or limitation. Another limitation in the completion of this project was resources. Azure has a comprehensive tool set to help with authentication and accessibility. Due to limited access under California State University, Fullerton’s designated student account on Azure tools such as Active Directory could not be used. With funding and new higher permission in Azure, this Web application can be improved immensely.

* 1. Future Features

LMS’s are the future of educational institutions, specifically to help accessibility for all types of students and teachers. The following list of features can be used to help improve the application in every possible way.

* Zoom and other virtual communications embedded within the application
* Grading system including automation and manual grading
* Access to exams and quizzes
* Plagiarism tools
* Cheating tools
* Access to assessments
* Interactive learning tools
* Authentication with user personal email accounts
* The implementation of AI and Machine Learning to help gear academics to personal user needs
* More tools to ensure the teacher or students do not need outside applications to aid them in their courses
* A setting menu to include contrasting interfaces, different font sizes, text to speech, and speech to text
  1. Conclusion

Learning Management Systems are the future of education, and having software or application that is flexible and heavily geared towards their users is eminent. User experience is the future of technology, meaning the way we interact with the applications we use needs to be our focus. Covid-19 has shown us how providing flexibility in our education can help connect each other no matter where we are in the world and provide more diverse learning environments. LMS’s can help extend the learning process beyond the physical classroom. This project is to show how this is possible, provide understanding into an LMS, provide critical features in a user-driven product, and most importantly, provide a system that can be easily manipulated to be upgraded with ease.

With the possibility of another pandemic or the inclusion of worldwide education, the topic of virtual learning and in-class learning will become more popular. Online learning can be more inclusive for disabilities, different learning styles, and different teaching styles. Having a virtual learning platform in the form of a learning management system can help aid students with disabilities by providing high contrasting elements, text to speech, speech to text, and any other available tools. If all these elements of learning are in one platform, that would reduce the need for more applications and provide students with lower capacity computing devices to use the application.

Virtual Classroom Dashboard was developed to have high accessibility and modifiability. This application can grow and be easily manipulated by future developers. The goal of this project was to create an all-inclusive learning management system for any user. With more time, research, and developers, this application can surpass its potential and even have the possibility to be one of the top learning applications. The research that can help elevate this project would include virtual reality, learning games, machine learning, and artificial intelligence tools. Utilizing modern technology within a learning application can help elevate learning and motivate students and teachers.

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|  |  |
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1. Appendix
   1. Software Requirements Specification Documentation

* **Introduction**
  + **Purpose**

This documentation aims to layout the users' requirements, software, and design. The purpose of the application itself is to create all-inclusive and diverse learning and teaching platform.

* + **Intended Audience**

This project's intended audience is educational institutions or individuals who wish to have an immersive learning environment.

* + **Project Scope**

The Virtual Classroom Dashboard aims to ease educators and create a convenient, easy-to-use application for its diverse user group. The system includes a relational database that may include some object-oriented aspects. This system also includes a web application that will focus on security and user experience.

* **Overall Description**
  + **Data Features**
    - **Entities**
    - User\_Info:
      * UserID: Primary key – int not null
      * UserFname: varchar not null
      * UserLname: varchar not null
      * UserPhonNum: varchar null
      * UserEmail: varchar not null
      * UserLevel: varchar null
      * UserType: varchar not null (Student, Educator, Admin)
      * SchoolID: Foreign key – int not null
    - School:
      * SchoolID: Primary key – int not null
      * SchoolName: varchar not null
      * SchoolLevel: varchar not null (Elementary, Middle School, High School, College)
    - Courses:
      * CourseID: Primary Key – int not null
      * CourseName: varchar not null
      * CourseSection: int not null
      * CourseNumber: varchar not null
      * ClassNum: int not null
      * UserId: Foreign key int not null
      * SchoolID: Foreign key int not null
    - User\_Course:
      * UserID: Foreign key int not null
      * CourseID: Foreign key int not null
    - Assignments:
      * AssignID: Primary key – int not null
      * AssignName: varchar not null
      * AssignDate: date not null
      * AssignDueDate: date time null
      * AssignDescription: varchar null
      * AssignFile: varchar null
      * AssignPoints: int not null
      * AssignType: varchar not null (Assignment, Project)
      * CourseID: Foreign key – int not null
    - User\_Assignment:
      * AssignID: Foreign key – int not null
      * UserID: Foreign key – int not null
      * UserAssignFile: varchar not null
      * UserAssignGrade: int null
    - Assessment:
      * AssessID: Primary key – int not null
      * AssessName: varchar not null
      * AssessStartDate: datetime not null
      * AssessEndDate: datetime not null
      * AssessTimeLimit: int not null
      * AssessPoints: int not null
      * AssessType: varchar not null (Quiz, Exam)
      * CourseID: Foreign key – int not null
    - Questions:
      * QuestionID: Primary key – int not null
      * AssessID: Foreign key – int not null
      * Question: varchar null
      * QuestionImage: varchar null
      * QuestionType: varchar not null (short answer, multiple choice, multiple selection)
    - Options:
      * OptionID: Primary key – int not null
      * QuestionID: Foreign key – int not null
      * Option: varchar not null
      * IsCorrect: bool (0, 1)
    - Assessment\_Result
      * AssessResultID: Primary key – int not null
      * OptionID: Foreign key – int not null
      * QuestionID: Foreign key – int not null
      * UserID: Foreign Key – int not null
      * IsCorrect: bool (0, 1)
      * AssessDescription: varchar null
    - User\_Assess\_Result:
      * AssessID: Foreign key – int not null
      * UserID: ForeignKey – int not null
      * UserAssessGrade – int null
    - Grade\_Format:
      * GradeFormatID: Primary key – int not null
      * CourseID: Foreign key – int not null
      * GradeFSection: varchar not null (Assignment, Project, Quiz, Exam)
      * GradeFPercent: percentage not null
    - Grade:
      * GradeID: Primary key – int not null
      * CourseID: Foreign key – int not null
      * UserID: Foreign key – int not null
      * GradePoints: int null
      * GradePercent: percentage default 100%
    - Announcements:
      * AnnounceID: Primary key – int not null
      * CouseID: Foreign key – int not null
      * UserID: Foreign key – int not null
      * AnnounceTitle: varchar not null
      * AnnounceDesc: varchar not null
    - Discussion:
      * DiscussionID: Primary key – int not null
      * CouseID: Foreign key – int not null
      * UserID: Foreign key – int not null
      * DiscussionTitle: varchar not null
      * DiscussionDesc: varchar not null
      * DiscussionDate: datetime not null
    - Discussion\_Reply:
      * DiscussReplyID: Primary key – int not null
      * DiscussionID: Foreign key – int not null
      * UserID: Foreign key – int not null
      * DiscussReplyDesc: varchar not null
      * DiscussReplyDate: datetime not null
  + **ER Diagram**

Diagram

Description automatically generated

* + **Schema Diagram**

Chart

Description automatically generated

* + **Operating Environment**
    - Distributed database
    - Client/server system
    - Browser choice: Chrome
    - Database: SQL + database
* **External Interface Requirements**
  + **User Interfaces**

Front-end: HTML / CSS / JavaScript

Back-end: C# ASP.NET

* + **Software Interfaces**

Users need Window or OSX operating system

Any web browser – Best in Chrome

* + **Communication Interfaces**

This web application supports all browsers

* 1. User Needs Chart

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Student Needs** | **Educator Needs** | **Admin Needs** |
| **1** | Login | Login | Login |
| **2** | View grades | Grade exams | Mass add students |
| **3** | View assignments | Grade assignments | Mass add professors |
| **4** | Turn in assignments | Grade quizzes | Individually modify any staff |
| **5** | Take exams | Grade automation | Individually modify students |
| **6** | Take quizzes | Upload assignments | Sign up for account |
| **7** | View class modules | Upload exams |  |
| **8** | View classmate email list | Upload quizzes |  |
| **9** | Chat with classmates | Create assignments |  |
| **10** | Chat with instructor | Create exams |  |
| **11** |  | Create quizzes |  |
| **12** |  | Designate weights for grading |  |
| **13** |  | Create groups |  |
| **14** |  | Create new modules |  |
| **15** |  | Create timed exams |  |
| **16** |  | Set deadlines |  |
| **17** |  | Modify grades |  |
| **18** |  | Access student emails |  |
| **19** |  | Upload other documentation |  |

* 1. Admin User Manual
     1. Setting up an Admin account
* On the homepage in the main navigation bar select REGISTER.

Graphical user interface, application, website

Description automatically generated

* Fill out all the necessary fields including first and last name, phone number (not required), email, password, school name, level, city, and state.

Graphical user interface, application, email

Description automatically generated

* Select the Register button

Graphical user interface, text, application, email

Description automatically generated

* The web application should automatically transfer you to the admin interface
  + 1. Edit Account
* To edit your account, begin by selecting Account on the left navigation bar

Timeline

Description automatically generated

* On the account page you may fill out the phone number or change your password or both

Graphical user interface, application

Description automatically generated

* Select update once you are finished

Graphical user interface, application

Description automatically generated

* + 1. Add Users
* Begin by selecting Add Users on the left navigation bar

Timeline

Description automatically generated

* Then fill out the form including First and Last Name, Phone Number (not required), email address, and the user type.

Graphical user interface, text, application, email

Description automatically generated

* Select Add

Graphical user interface, application

Description automatically generated with medium confidence

* + 1. Manage Educators
* Begin by selecting Manage Educators on the left navigation bar

Graphical user interface

Description automatically generated with medium confidence

* You should see a table of the Teachers at your school

Graphical user interface

Description automatically generated

* You may delete the teachers as you please by selecting the delete button on their row

A picture containing timeline

Description automatically generated

* + 1. Manage Students
* Begin by selecting Manage Teachers on the left navigation bar

Timeline

Description automatically generated with medium confidence

* You should see a table of the students at your school

Timeline

Description automatically generated

* You may delete the students as you please by selecting the delete button on their row

Timeline

Description automatically generated

* 1. Teacher User Manual
     1. Edit Account
* After logging into your teacher account – on the left side navigation, all the way at the bottom select Account.

Graphical user interface

Description automatically generated with medium confidence

* On the account page you may fill out the phone number or change your password or both

Graphical user interface, text, application, email

Description automatically generated

* Select update once you are finished

Graphical user interface, text, application, email

Description automatically generated

* + 1. Add course
* On the left side navigation select Add Course

Graphical user interface, application, website

Description automatically generated

* Fill out the entire form including the name, number, section, and class number for the course

Graphical user interface, application, website

Description automatically generated

* Click add to add the course

Graphical user interface, application, website

Description automatically generated

* + 1. Manage Course
* On the left side navigation Select Manage Courses

Graphical user interface

Description automatically generated with medium confidence

* To delete a course, select the delete button

Graphical user interface

Description automatically generated with medium confidence

* To edit a courses information select Edit

Graphical user interface

Description automatically generated with medium confidence

* In the edit window you can edit the Course Name and Section

Graphical user interface

Description automatically generated with medium confidence

* Then Select the Update Button

Graphical user interface

Description automatically generated with medium confidence

* To Add Students to the Course, Select the Add Button

Graphical user interface

Description automatically generated with medium confidence

* In the Add window you can select which students you would like to add to the course

Graphical user interface

Description automatically generated

* + 1. Manage Course – Select Course
* To Select a course please select the Dashboard

Graphical user interface

Description automatically generated

* Select a course if there is one available

Graphical user interface

Description automatically generated

* + 1. Manage Course – Add Files
* To add files, find Files in the side the side navigation (Make sure that you have first selected a course)

Graphical user interface

Description automatically generated

* Next select add files

Graphical user interface

Description automatically generated

* Then proceed to fill out the necessary information

Graphical user interface, text, application, email

Description automatically generated

* Select upload files

Graphical user interface, text, application, email

Description automatically generated

* The application will then take you back to the files page to show you all the files

Graphical user interface, text

Description automatically generated

* + 1. Manage Course – Discussions
* First select Discussions in the side navigation (Ensure a course is selected)

Graphical user interface, text, application

Description automatically generated

* To add a discussion, select the discussion button

Graphical user interface, text, application

Description automatically generated

* Fill out the form and then select Add

Graphical user interface, text, application

Description automatically generated

* To delete a discussion select Remove

Graphical user interface, text, application

Description automatically generated

* To view a discussion, select one of the discussions

Graphical user interface, text, application

Description automatically generated

* Select Reply to add to the discussion

Graphical user interface, text, application

Description automatically generated

* Fill out your reply then hit reply

Graphical user interface, text, application, email

Description automatically generated

* + 1. Manage Course – Announcements
* To view the announcements, select it on the side navigation

Graphical user interface, text, application

Description automatically generated

* To add an announcement, select the add button

Graphical user interface, text, application

Description automatically generated

* Fill out the information and hit upload

Graphical user interface, application

Description automatically generated

* To remove an announcement, select the announcement and hit remove

Graphical user interface, text, email

Description automatically generated

* + 1. Manage Course – Syllabus
* To add or view a syllabus, navigate to the syllabus page

Graphical user interface, text, application, email

Description automatically generated

* Select a fill and then hit upload

Graphical user interface, text, application, email

Description automatically generated

* The fill can be uploaded as many times as needed and the old one will be replaced

Graphical user interface, text, application, email

Description automatically generated

* + 1. Manage Course – Roster
* To view or remove the students in the course, select roster on the side navigation

Timeline

Description automatically generated with low confidence

* Select remove to remove a student

Timeline

Description automatically generated with low confidence

* 1. Student User Manual
     1. Edit Account
* Select Account on the side navigation

Graphical user interface, text, application

Description automatically generated

* Fill out either the phone number or the password

Graphical user interface, text, application

Description automatically generated

* + 1. View Course – Select Course
* Select Dashboard

Timeline

Description automatically generated

* If you are enrolled in any courses, you can select the course here

Timeline

Description automatically generated

* + 1. View Course – View Files
* Select Files – you can find your course content here

Graphical user interface, text, application

Description automatically generated

* + 1. View Course – Discussions
* Select Discussion

Graphical user interface, text, application

Description automatically generated

* Select a discussion to view the content

Graphical user interface, text, application

Description automatically generated

* Select reply

Graphical user interface, text, application

Description automatically generated

* Fill out your reply and hit reply

Graphical user interface, text, application

Description automatically generated

* You should see your reply

Graphical user interface, text, application

Description automatically generated

* + 1. View Course – Announcements
* Select Announcements to view any announcements

Graphical user interface, text, application

Description automatically generated

* 1. Presentation Slides

|  |  |
| --- | --- |
| A picture containing logo  Description automatically generated  1 | Graphical user interface, application  Description automatically generated  2 |
| A picture containing diagram  Description automatically generated  3 | Graphical user interface, text, application  Description automatically generated  4 |
|  |  |
| Graphical user interface, text, website  Description automatically generated  5 | A picture containing diagram  Description automatically generated  6 |
| Graphical user interface, text, website  Description automatically generated | Diagram  Description automatically generated |
| 7 | 8 |
| Graphical user interface, website  Description automatically generated  9 | Diagram  Description automatically generated  10 |
|  |  |
| A picture containing table  Description automatically generated  11 | Graphical user interface, diagram  Description automatically generated  12 |
|  |  |
| Graphical user interface, text, application  Description automatically generated  13 | Logo  Description automatically generated  14 |
|  |  |
| Graphical user interface, text  Description automatically generated  15 |  |