**­ 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 that we can 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 with respect to the software development lifecycle. This paper takes you through the methodology of developing a larger 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 requirement a series of diagrams were created to help with the construction of 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.

**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:

Password:

**Sample Student Credentials**

Username:

Password:

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 at least 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 the forms of 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 the tracking of online courses or programs.

Students strive in learning environments when tools to suit their educational needs are provided to them. 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 students, 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. Some of the key features LMS use are social learning tools, gamification, course management, assessment tools, notifications, and intuitive user management.

1.2 Motivation

My motive for working, researching, and developing a learning management system is my passion for education. 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 Manage 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 to be difficult, especially for lower levels of educations. 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 is about providing 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 over the years by focusing on user experience development. Narrowing the focus means that developers are focusing 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 is used to connect 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 is the explanation of 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. Using analyzing tools is 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 work.

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 backend and how the web application will look.

The next phase included build and testing. In this phase, the software went into physical development, 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 moves forward, a series of tests occurred, checking the backend 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
  + User Flow, Wireframe, sitemaps, E.R. diagrams, etc.

**Phase 2: Build and Testing**

* Build – 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.

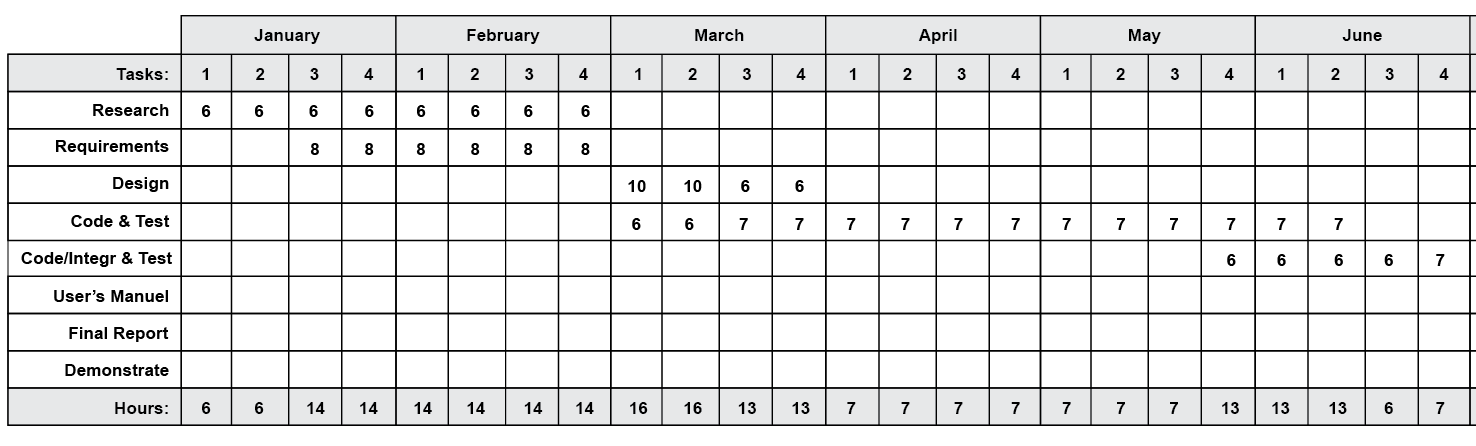
**Phase 4: Documents and Demonstrations**

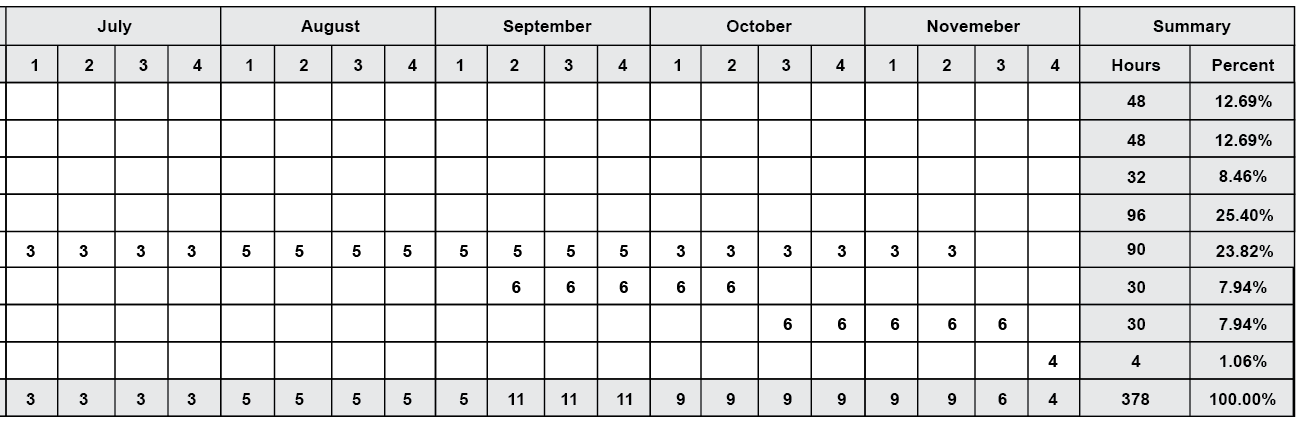
* User’s Manual
* Final Report
* Demonstration

1. Development and Architecture
   1. Development Environment

The Full-Stack Application is a C# ASP.Net internet application that is 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 to see and are not of similar color value. It will also have text varying in size depending on importance and elements that are easily identified. 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 any other device. 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. Each of these values represents an earthy and modern feel to promote education and a relaxing ambiance. In the application, these colors are represented by hex codes in Cascading Style Sheets. The logo that was 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 is to separate content and break 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.



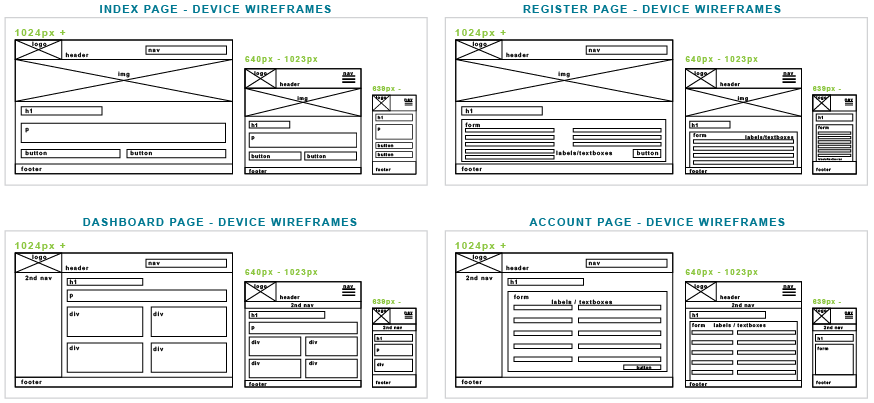
**Figure 5: Sample Implementation**

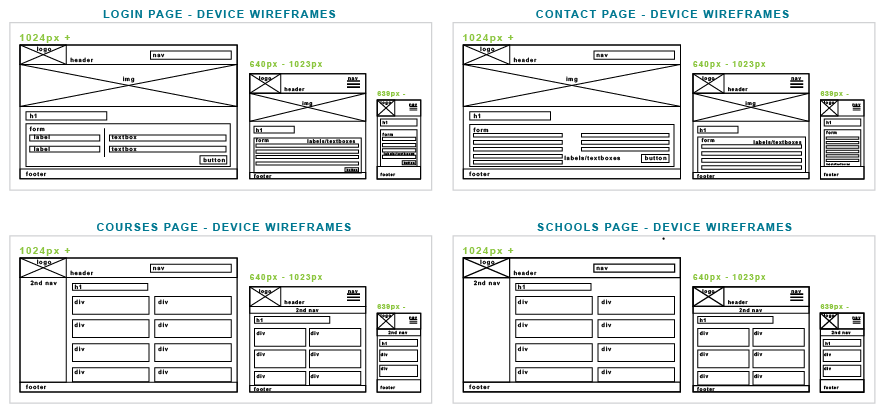
* + 1. User Interface Diagrams

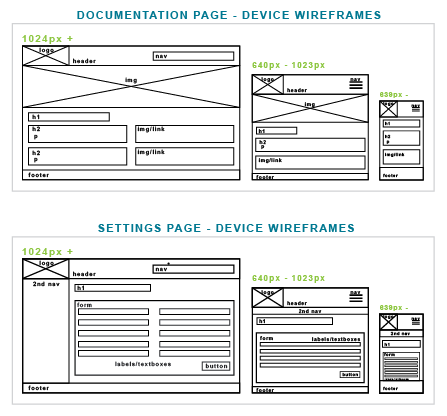
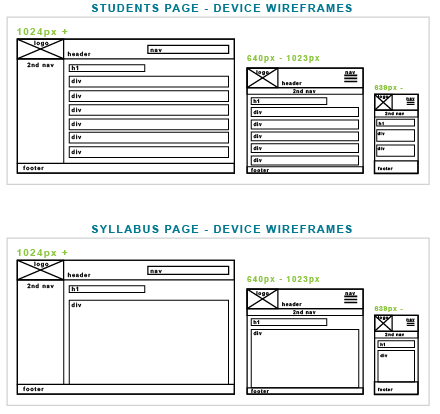
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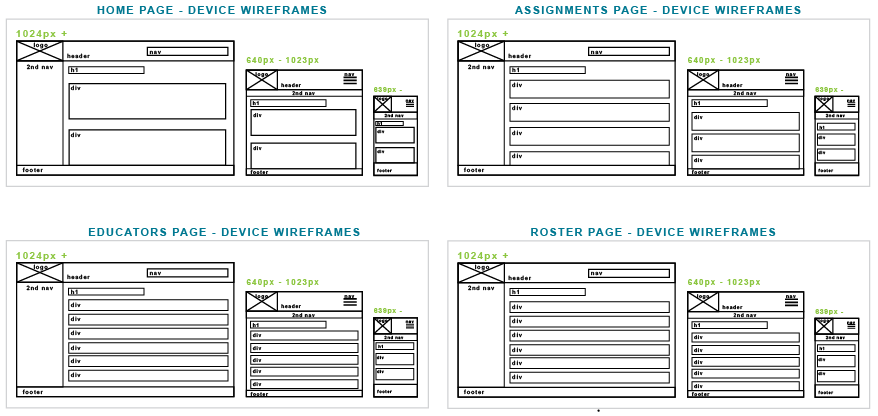
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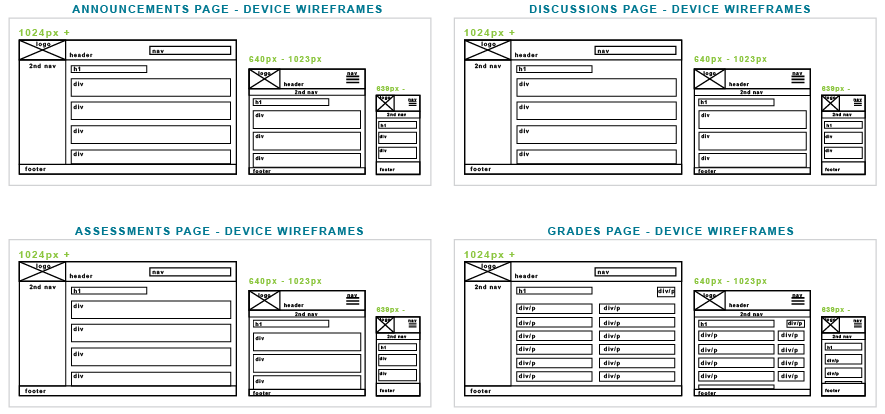
**Figure 6: Sitemap**









**Figure 7: Wireframes**

* + 1. User Flow Diagrams

Diagram

Description automatically generated

**Figure 8: User Flow Diagram**

**![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**

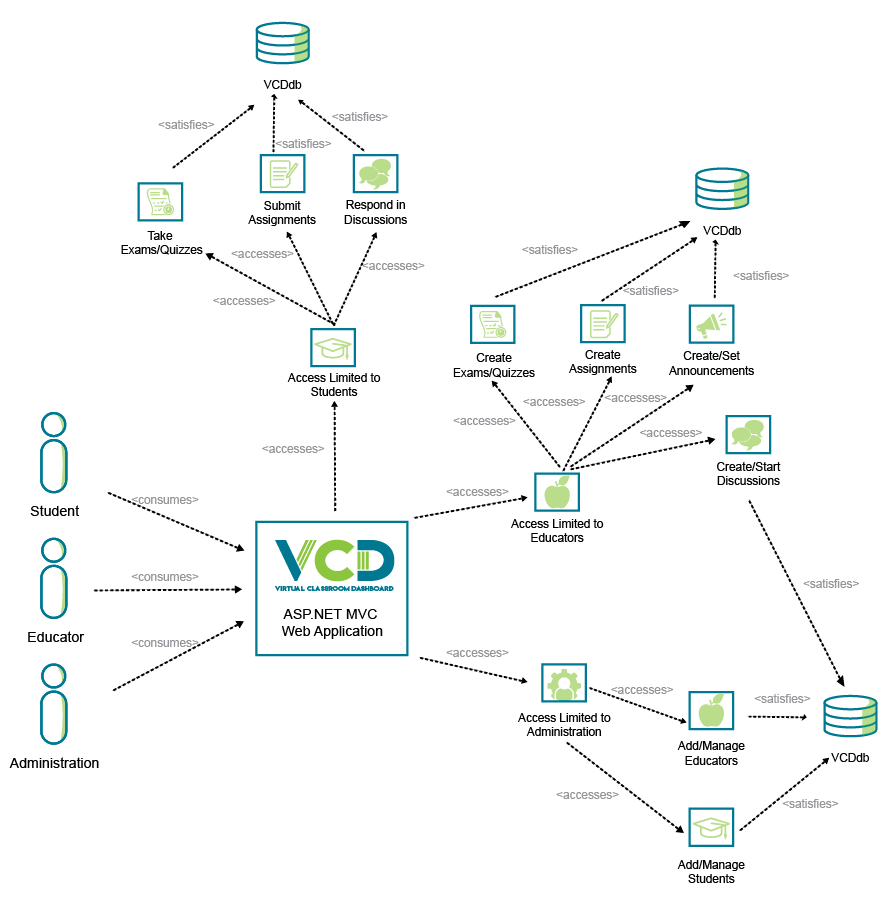
**Timeline

Description automatically generated**

**Figure 13: Functional Requirements**

* + 1. System Architecture and Design

//break down each feature and how they interact with each other



**Figure 14: Concept of Operations Diagram**

//describe the why the application was designed this way and how it protects its users – fig 15

![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**

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 to have been 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 document talks about what this plan covers and does not cover in terms of test cases. Some thoughts 🡪 General user website visit(registration & contact form submissions), User-specific: Admin(login, user preferences, etc.) & Student (login, preferences, testing, etc.) & Educator (login, user preferences, etc.)

* 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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wrXw9/zzuP+/xouB47RXsX/CtfD3/PO4/7/Gj/AIVr4e/553H/AH+NFwPHaK9i/wCFa+Hv+edx/wB/jR/wrXw9/wA87j/v8aLgeO0V7F/wrXw9/wA87j/v8aP+Fa+Hv+edx/3+NFwPHaK9jHw28PAj91cH2841etfBPh20IMemROR3mJkz+DEilcDxix0291ObytPtZbh+4jUnH1Pau80D4YOWWfxBIFUci2ibJP8AvN/h+dejRQxQRiOCNI0HRUUAD8BT6LjI7e2htLdILWJYooxhUQYAFSUUUgCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACua8Y+B9N8YWYF0PIvIxiG7RcsvsR/Evt+WK6WigD5h8TeCNb8KzN/aFsXts4W6hBaNvx7H2OK56vr10WSNkkVXRhhlYZBHpXHaz8KvC+sM0iWjWEzdXs22D/vk5X8gKYHznRXrl78CZQSdO1tGHZJ4CuPxBP8qzG+B/iIMdl/pZXsTJID/wCgUAebUV6R/wAKP8Sf8/ulf9/ZP/jdH/Cj/En/AD+6V/39k/8AjdAHm9Fekf8ACj/En/P7pX/f2T/43R/wo/xJ/wA/ulf9/ZP/AI3QB5vRXpH/AAo/xJ/z+6V/39k/+N0f8KP8Sf8AP7pX/f2T/wCN0Aeb0V6R/wAKP8Sf8/ulf9/ZP/jdH/Cj/En/AD+6V/39k/8AjdAHm9Fekf8ACj/En/P7pX/f2T/43R/wo/xJ/wA/ulf9/ZP/AI3QB5vRXpH/AAo/xJ/z+6V/39k/+N0f8KP8Sf8AP7pX/f2T/wCN0Aeb0V6R/wAKP8Sf8/ulf9/ZP/jdH/Cj/En/AD+6V/39k/8AjdAHm9Fekf8ACj/En/P7pX/f2T/43R/wo/xJ/wA/ulf9/ZP/AI3QB5vRXpH/AAo/xJ/z+6V/39k/+N0f8KP8Sf8AP9pX/f2T/wCN0Aeb0V6vafAq9Zh9u1qCJe/kws/8yK6vSPg94a05hJeLPqMg5/fvhAf91cfqTQB4jofhzVfEd4LfR7OS4bPzOBhE92Y8Cvc/Avw0svCm29vWW81Qj/W4+SHPUIPX/aPP05rs7W0t7G3W3soIreFBhY4kCqv0AqWkAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRUM15bW+/z544/LXe4ZgMD1pNpasCas691dIJ/stnE13eEf6lDwvux6KKrfaL7WuLHfZWJ63DDEkg/2B2Hua0bKwttPg8q1jCAnLMeWc+pPc1hzyq/w9F3/AMv8/wAyLt7FO30h5rhbvWJFubheUjA/dRf7o7n3NatFFawpxgtCkkgoooqxhRRRQAUUUUAFFFFABRRRQAUUzz4/tHkbx5uzfs77c4zT6V0wCiiimAUUUUAFFFFABRRRQAUUUUAFFFFABRRTZHWKNpHOFUFmPoBQA6imQzR3ECTQsHjkUMrDuDT6SaaugCiiimAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBmarq/2P8A0ezia5vnXKQoM4H95vQVhaX4W1CTU11HWJoy+/e0bDeW9j2H64rr9qhiwA3EYJxyaWuSphlVmpVHe2y6f8Ehw5ndhRRRXWWFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAZQBPjBzn5VsF4+sh/wrVrKjbd4unH92yQf+Psa1awo7S9WTEKKKK3KCiiigAooooAKKKKACiiigAooooAKOtFFAGRo5+w3l1pLcLEfOt/eNj0/A5Fa9ZOuK1t5GqRAlrNsyAfxRHhh+HX8K1VZXQMhDKwyCO4rCj7rdPtt6dPu2JjpoLRRRW5QUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAU2SRIY2kmdY0UZZmOAB6k0pIVSWIAAySe1eN+M/F02vXz21rIV06JsIo480j+I/0FAHXax8TtOs3aLS4WvnHHmE7I/z6n8vxrlrn4l6/MxMTW9uOwjiz/6FmuQoqrCOk/4WB4m/6Cf/AJLxf/E0f8LA8Tf9BP8A8l4v/ia5uigDpP8AhYHib/oJ/wDkvF/8TR/wsDxN/wBBP/yXi/8Aia5uigDpP+FgeJv+gn/5Lxf/ABNH/CwPE3/QT/8AJeL/AOJrm6KAOk/4WB4m/wCgn/5Lxf8AxNH/AAsDxN/0E/8AyXi/+Jrm6KAOk/4WB4m/6Cf/AJLxf/E0f8LA8Tf9BP8A8l4v/ia5uigDpP8AhYHib/oJ/wDkvF/8TT4/iH4lQ/NfJJ7NAn9AK5iigD0DT/irdo4XVLGKVO7QEow/A5B/Su70XxHpuvwl9On3Oo+eJxtdPqP6jivBKmtLu4sbqO5s5WhmjOVdTgiiwH0TRWB4Q8Sp4k0jzHAS7hISdB0z2Yex/wAa36kYUUUUAFFFFABRRRQAUUUUAZkH/I0Xn/XtF/N606y7Nc+JtSb0ihH/AKF/hWpWNH4X6v8ANkx2CiiitigooooAKKKKACiiigAooooAKKKKACiiigBHRZI2RwGVgQwPcVlaE7W6z6XM2ZLJtqE/xRHlT/T8K1qyNX/0C+tdVXhEPk3H/XNjwfwbB/GsK3utVO2/p/wNyZaamvRRRW5QUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBgeN7x7LwbfyRHDugjBH+0wU/oTXh9e8eKtOfVfC99aRDMjR7kHqykMB+OMV4QeOtNCEooopgd14c8P2154VhvE8P/wBr3LTuj/6aYNqjGO+DTrXQtDaPWrnVLdNMa0kij+yyNJcLbAgDcWRgX3HPGeKxNP8AEWnQ6FFpmqaL/aCRStKjfa2iwT7KP61FLr1qun6rZafpn2WDUPJ2r9oL+V5ZyeSMtk/TFAHQ6j4N0+51KCy0iZY0hthPdSiCV5MEDaduSGLZJAUDGKzJPBD219cC9v1t9PggSdrt4GztY4UeX1DZB4pIfG0kOtPeraHypbVLaWFZ2ViFA5DqAVPFJ/wmQe+uvtGntcafdRLFJaTXkkhwpyD5jEkHJ7cfzoAsWfhfR/surSXGsxzrbRK8M0KFlCt0ZgD1zxt7dar6h4XRbeeS2mQTW9jDdGCOJv3it945Lnkd+3sKjj8U2qXF+P7FgWyu4FhFtDIY9oU5BLAZY56nvSxeL2h8QWupCzBSG0W1kgMnEqhcdccdjjB6UAWYfAbyX08El8ypawxtcNHatKySOM7AiklsDqePpSHwOtt9vbVNVSzispEUyGBmDq4yCADnPtj15qvpvjKez1DUZ7mB54tQk8yRI7hoWUgkjDryBzj3qK+8Um907ULQ2zgXcsbqz3LymMJ2y2SfzH0oAvx+AZTqt5byXv8AotqqN58Ns8rPv+7iNefr6UsPgCRbi+W/vzDFaMoDQ2rzM4Ybg2xeQMfrmki8eumoTyvYube4ijjeKO6aNgUGAwdQCPcVWt/FdsmrTX11pcs7sR5TDUZ1eMDsXySw7/5xQAul+EItQtry5k1Mx29tMYQ8NnJKzYGdxQAFRjufeucuIlhuZIkkEqoxUOFI3YPXBwR+NdJb+L4RrF1qV7pIluJ5A6tBdyQFMAAD5Tgjj07msLVNQk1XVbi+mRUedy5VOgoAqUUUUAdh8M7p4PFohUnZcQurD6fMD+n616/Xk/wv017jxBLfEHyrWIgN6u3AH5Z/SvWKTGFFFFIAooooAKKKKACiiigDKsST4k1XI4CQAfkx/rWrWXYEHxBq2OxhB/74rUrGh8L9X+bJjsFFFFbFBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABUdxBHdW0kEy7o5FKsPY1JRSaTVmBmaFPI1m1ncnNxZN5L/7QH3W/EYrTrIvv+JfrdvfDiG5xbT+gP8AA358Z9616xotpOD3X5dP67kx7BRRRW5QUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXm3jfwLKZ5dV0SIyByXnt1HIPdlHf6f5HpNFAHziQQSCMEdQaSvddX8JaNrbF7y0VZj/y2iOx/wASOv45rl7n4T27MTZ6rJGvZZYQ/wCoI/lVXEeZUV6H/wAKmn/6C0f/AH4P/wAVR/wqaf8A6C0f/fg//FUXA88or0P/AIVNP/0Fo/8Avwf/AIqj/hU0/wD0Fo/+/B/+KouB55RXof8Awqaf/oLR/wDfg/8AxVH/AAqaf/oLR/8Afg//ABVFwPPKK9D/AOFTT/8AQWj/AO/B/wDiqP8AhU0//QWj/wC/B/8AiqLgeeUV6H/wqaf/AKC0f/fg/wDxVH/Cpp/+gtH/AN+D/wDFUXA88or0P/hU0/8A0Fo/+/B/+Kp8fwmfd+91hQv+zb5J/wDHqLgec1q6F4dv/EF2IbGL5Af3kzcJGPc+vt1r0nT/AIZ6LaMHu2mvWHaRtq/kOf1rrYLeG1gWG2iSGJBhUjUKB+ApXAp6HottoOlR2VoMheXcjmRu7GtCiikMKKKKACiiigAooooAKKKKAMvTgP7c1c9zJEP/ACGK1Ky9LBOq6uxOczqPyjWtSsaHwfN/myY7BRRRWxQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAV7+zS/sJrWX7sq4z6HsfwPNQaNePd6cv2ji4hYwzjPR14P59fxq/XJ6trX9g+JZPLhYpcxoZd/C5BxuHrxkfUVyV6kaElVlts/0/rzIk1F8zOsooorrLCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACkbO07cbscZpaKAOT8J6reX+rXy3EcSK37yTapyH4UAc9MA11lYnh+yW1vNWkUYL3ZA47AZH/oRrbrkwcZxopTd3r+ZnTTUdQooorrNAooooAKKKKACiiigAooooAKKKKACiiigAooooAKyvEGiprWnmPhZ4/mic9j6H2NatFRUpxqQcJbMTSasyjotz9r0e3kbIcJskB6hl4P6ir1GMdKKcE4xSbuC0QUUUVQwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKr39/b6ZYy3l7II4Yl3Mx/kPegCxWDqPjXQdMYpNfrLIOqQDefzHA/OvNPEvjbUNfleKJmtbHosKNguPVj3+nT+dczTsI9Xk+KmkK2I7O9cepVB/7NTf8Ahaul/wDPjef+O/415VRTsB6r/wALV0v/AJ8bz/x3/Gj/AIWrpf8Az43n/jv+NeVUUWA9V/4Wrpf/AD43n/jv+NH/AAtXS/8AnxvP/Hf8a8qoosB6r/wtXS/+fG8/8d/xo/4Wrpf/AD43n/jv+NeVUUWA9V/4Wrpf/Pjef+O/40f8LV0v/nxvP/Hf8a8qoosB6r/wtXS/+fG8/wDHf8aP+Fq6X/z43n/jv+NeVUUWA9etvifoUzATJdW/qzxgj/x0k/pXSadrOnatHu068iuMDJVW+YfVeo/Gvn2pIJ5baZZreR4pEOVdGwQfrSsB9F0VwXgvx6dQlTTdbdRcNxDPjAkP91vQ+h7/AF697SGFFFFABRRTJZUgheWZgkcalmY9AByTQBDqGo2ul2b3V/OsMKdWbufQDufavOtZ+KVxIxj0O2WFP+e043MfovQfjmuZ8U+I5/EeqtM5ZbaMlYIs8Kvr9T3rEp2Ea9z4q167YmbVrrnqI5Cg/JcCq39tap/0Erz/AL/t/jVGimBe/trVP+glef8Af9v8aP7a1T/oJXn/AH/b/GqNFAF7+2tU/wCglef9/wBv8aP7a1T/AKCV5/3/AG/xqjRQBe/trVP+glef9/2/xo/trVP+glef9/2/xqjRQBe/trVP+glef9/2/wAaP7a1T/oJXn/f9v8AGqNFAF7+2tU/6CV5/wB/2/xo/trVP+glef8Af9v8ao0UAaCa9q8Tbo9UvVPqLh/8a2NO+IWv2LASXK3cY6pOgP8A48MH9a5eigD2fw54707XnW3kH2O8PSJ2yHP+y3f6da6ivnFWKsGUkEHII7V7B4A8TvrmmvaXrbry1Ay56yJ2b6jofw9aVhnXUUUUgCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK8y+KerO15a6VG2I0TzpAO7HIA/AA/nXpteQ/E6B4vFaysPlmt1Kn6Eg/wAqaA46iiimIKKKKACnKrO4RAWZjgADkmm1a0u6Wx1ezu5F3pBOkjKO4VgcfpQBsTeCdTis5ZRNZyTwR+ZNZxzhpo17kr/9equl+GL/AFfSbvULUxCK1zlXYhnIXcQoxycfStrUdN0yS71PWD4jg8i5EkkMUEhM7MxyEZOw7f4VpWGtaBoNto1pLc3Us1upmkazaNoS8mQwck5OBxx2oA5fSvC8+qaU2ofb9Ps7dZjDuu5jHlsA8cEdD+hqaPwXqEmqPZG5skC2v2sXLTHyWizjcGA/nW8+paZ4d0K6toF03VY/7XLJBIyy5hMYIZRngj7ufXNTR6raQa9fX631jcWkmjOLSCQoqpgqRAyAjnrx3zQByGr+HbnR7eG5a5tLy2mYqs1pL5ibh1BOBzWRWtq/iG51e3ht2t7W0toWLLBaReWm49TjJ5rJoAKKKKACiiigBVYowZSVYHIIPINe8eF9UbWPDNneSHMrJtkPqynaT+OM/jXg1e0fDy3e38F2pkBBlZ5AD6Fjj+WfxpMDp6KKKQwrn/HUzweCdReM4JRUP0Z1U/oTXQVQ1zThq+h3djkAzRFVJ6BuoP5gUAfP9FPmhkt53hmQpJGxV1PVSOCKZVCCt+e3gHw/tLlYYxMb90aUKNxGwEAnrj2rArY0nxLdaTZSWYtrS8tZH8wwXkPmKG6bgMjmgDpp/D2k3+tW8M7fZlXTIZFgtTHG87nOcFsLnuc9ag07wNBeanqAeHU1trUJst2ESTuWz3J2YGOvesM+KruXV5dQvLSwvHkUJ5VzbB0QDptHUfgfrUw8aai19NPNBZTwyxrGbSWDMKqudoC57ZOOe9AGrL4O0vTH1d9Yubz7PYmFkMG3eyyZ4IPGc8ZzjrVPwPbW1zrWob4bWVI7KWSL7coaNSGXDP6AdyO2aypdfuJbS/thb2sMV88bOsMWwJs6BQOB+Oag0zVZ9KN0bdY2+1Wz2z7wThWxkjBHPFAHWSaZa61rkdnfto8MMNrLOZdCAxxjh8g5xjp71Fa+HNP1m0sE0qWeOC5vnjDXEcfmKix7jkqMk8HAzjpxXL6Xqk+kzyy2yxs0sLwsJASArDB6Ec1Zs/Ed9YWdrb2vloLW4NxG+0ltxGCDzgjHtQB1M/w/tY9a02Im9htLuSSKRJnjMqlULAgrlcHH14qpF4P0vU0sH0e9uvLmvGtZmuEXOVQuWUDthe/qKyh4uuU1e11C207TLWS23FUgttiuWBBLYOTwfWoLTxNf2NlDb2vlxiG7N2jhTu3ldpHXGME8YoA6qx03QH0y2bTInuEOtQwu17EhfHGVyByp9PzqlJ4UtNT1NWsjJGG1aa1ukUALEoJYFRjgbAeuRn8qz5/HF/MsSLZ2ECRXSXSpDCUBdTnn5uc9+/vU+l+JRY6ZrlzJdJ9s1MnZbRI3yMxbL5IwAA3HJNAHNXq26X062ZZrdZGETOQSVzwTgDtUFFFABXU/Dqd4vGtsidJkkRvptLfzUVy1d78LtIebVJ9VkXEMCGOM+rnr+Q/mKAPUqKKKkYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABXN+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**

This application will be 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 will test 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 types of devices and browsers that the web application will work. 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. Assumptions
  2. Functionality
  3. Security
  4. Performance
  5. Usability
  6. Compatibility
  7. Accessibility Analysis

This web application was tested through a free accessibility analyzer: <https://www.boia.org/w3c-tools-services-a11y>.

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 the use of schools to provide a diverse learning environment for their students. It provides options for accessibility for most types of users that have needs like text size, text to speech, and speech to text.

//did you complete the requirements you created

//were your objectives met

* 1. Discussion

//what did you learn based off of the results of building the project

//Tie in the literature with your work

// mention how the project went

1. Conclusion
   1. Limitations

The limitations of this project were time, the number of developers, and limited knowledge. This application is a big project that needed many interfaces, database tables, and required extensive backend engineering. The limitations for the users of this application can be solutions in the future features section. You can never find every single bug in an application with time restrictions and limited funding. In this case, time was a significant factor in solving all the issues within each user interface.

//how do these limitations effect the resulting application

//Why are these limitations

//How can this be prevented with future development

* 1. Future Features

This application requires many updates for the future regarding security, special needs for students and teachers, and testing additions.

//explain how it can be improved

//ai games

//ai learning\

//more interacting features

//base the interface off of the type of users educational level

//use ai to build the interface based off of the needs of the user

* 1. Conclusion

//talk about learning vs elearning

// mention covid,

//accessibility

//how the application turned out

//how it will be easy for another developer to pick up

//was your outcome and goals of this project met

1. References

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

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

This documentation aims to lay out the requirements of the users, 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** | Zoom access | Grade assignments | Mass add professors |
| **4** | View assignments | Grade quizzes | Individually modify any staff |
| **5** | Turn in assignments | Grade automation | Individually modify students |
| **6** | Take exams | Upload assignments | Hold zoom sessions |
| **7** | Take quizzes | Upload exams | Sign up for account |
| **8** | View class modules | Upload quizzes |  |
| **9** | View classmate email list | Create assignments |  |
| **10** | Chat with classmates | Create exams |  |
| **11** | Chat with instructor | 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
  2. Student User Manual
  3. Presentation Slides