FACULTY OF SCIENCE, ENGINEERING AND COMPUTING

School of *Computer Science & Mathematics*

BSc DEGREE
IN
E-LEARNING MANAGEMENT SYSTEM

PROJECT PROPOSAL

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ID Number: E028302

Project Title: E-Learning Management System

Project type: Build

Date: 2022/03/15

Supervisor: Mr. Hazly Mohamed

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Did you discuss and agree the viability of your project idea with your supervisor?   Yes

Did you submit a draft of your proposal to your supervisor?   Yes

Did you receive feedback from your supervisor on any submitted draft?   Yes

Abstract

This project consists of the development of a contributory web application to learn and to help the students and professors to manage their academic activities and personal details. The goal of this application is to create an E-Learning platform for the in TAN institute. The inventory is meant to advise institute management and organizations information's to be protect.

This is important because the push to modernize infrastructure in emerging with the education institute. An inventory of what currently exists, and possibly what existed in the past, will help to digitally record these sites, despite what occurred or may eventually occur in the physical places. Also as part of its purpose, the application seeks to engage the general public, including interested

Students and Learner who want to learn, by incorporating the ability to contribute information through the correction and enhancement of current entries. The web application will incorporate the minimum data standards for inventory of student information and professor's information as specified in the Core Data Index to an institute. The initial dataset for the application is based upon data collected during student registration and professor's registrations.

RAJKUMAR KALAICHUDAR
ID NUMBER: E028302
FINAL YEAR PROJECT PROPOSAL

Contents

RAJKUMAR KALAICHUDAR
ID NUMBER: E028302
FINAL YEAR PROJECT PROPOSAL

List of Figures/Tables

Figures

Tables

RAJKUMAR KALAICHUDAR
ID NUMBER: E028302
FINAL YEAR PROJECT PROPOSAL

1.   Introduction & Background

1.1 Introduction

The use of E-Learning the board framework techniques and instruments is getting increasingly more significant at colleges. This is a direct result of the quickly changing circumstance there today. Understudies request a better and efficiency instructing. One model is the concentrated stockpiling of archives and assets for courses, another is the interest for consistent self-appraisals to control the individual learning progress.

Moreover the use of cooperation and specialized instruments like discussions or visits is a significant component. One more significant driver of this improvement is the foundation Connection among understudy and the teachers. presently a day we can't lead the actual assessments or talks, To tackle this issue increasingly more E-Learning frameworks are utilized as these diminish the responsibility of analyst altogether.

The focuses referenced above give generally excellent contentions to coordinate eLearning upheld by a Learning Management System (E-LMS) in scholastic regular day to day existence. Anyway this is a significant undertaking with different entanglements. We have broad information with these current e Learning frameworks, throughout this as yet continuous task it has become increasingly more clear that business as well as source LMS are missing cutting edge highlights (for example flexibility and customization by clients). We are planning and spearheading new ways to deal with address these deficiencies. One main pressing issue is the plan of a framework design to take into account a more straightforward coordination in existing grounds frameworks and applications.

For the accomplishment of an E-LMS it is crucially critical that it is incorporated with grounds applications. As far as we can tell the utilization of a focal E-LMS is just decent for instructors on the off chance that information which was recently placed in different frameworks is additionally accessible in the E-LMS consequently. Besides activities started in one framework need to influence others also. All the other things isn't justifiable and satisfactory from a client's perspective and obstructs the presentation of eLearning at a grounds. Particularly the trade
Of information between an E-LMS and Campus Management Systems is significant. Now a   days Campus Management Systems are giving an enormous number of functionalities in regards to exercises and information organization inside Higher Education Institutions (HEIs). This incorporates dealing with the total understudy life cycle with going with information. As eLearning is turning into a vital part clearly it

involves almost similar essential information as different applications with little space explicit varieties and expansions.

1.2 Background and Motivation

This e-learning management system mainly develop for the institute students and the professors. The background of this project is to provide the e-learning management system for the institute students and professors as well. This online e-learning system can access every students and the professors for the specific studies. Online e-learning management system provide the course or studies subjects details for each of student and the professors according to their learning or teaching subjects categories. In institute student and the professors can't allow any time physically but in this online e-learning system students and professors can access study materials, study references, pdf book download, view the tutorial videos, view their personal details any time and the same time anywhere they can access it. According this e-learning system not only for the Sri Lankan students or professors, this system for other country students and professors as well.

This e-Learning the board framework straightforwardly access from understudy and the actual teachers. This framework worldwide arrive at consistency of message and capacity to learn whenever, anyplace. In any case, e-Learning in the professional workplaces offers different advantages also. To begin with, e-Learning empowers foundation to refresh materials and data across the whole endeavor, keeping content new and important. This is particularly significant as item advancement cycles keep on decreasing, item alterations become more successive, and foundation and arrangements become more unpredictable. Second, internet preparing additionally makes a customized growth opportunity.

Data is reliable or altered, contingent upon need everybody gets a similar substance, introduced similarly. However the projects can likewise be redone for various advancing necessities or various gatherings Content is all the more opportune and trustworthy Because it is web-empowered, e-Learning can be refreshed momentarily, making the data more precise and helpful for a more drawn out timeframe. The capacity to overhaul e-Learning content effectively and rapidly, and afterward quickly disperse the new data to clients is incredibly time productive.

Learning is every minute of every day Students can get to e-Learning anyplace and whenever of the day. It's "without a moment to spare - any time' approach makes the learning system omnipresent. Comprehensiveness e-Learning is web-empowered and exploits the widespread Internet conventions and programs. Worry over contrasts in stages and working frameworks is quickly blurring. Everybody on the Web can get for all intents and purposes a similar material in essentially a similar time. Adaptability e-Learning arrangements are exceptionally versatile. Constructs people

group The Web empowers understudies to assemble persevering through networks of practice where they can meet up to share information and knowledge. This can be a huge inspiration for learning.

E-Learning brings down costs despite visible presentations, e-Learning is frequently the savviest method for conveying guidance or data. It cuts travel costs. It can likewise lessen showing time, and essentially decreases the requirement for a homeroom/educator framework.

1.3. Problem in brief

TAN institute is the newest upcoming institute. This institute doesn't have any E-Learning management system in online currently. It is using the manual record based system for their all academic processes for all students and professors worked at there. So which it is hardly update the students record or professors records and collect al student exams, assignments correct time. The tan institute students can access the study materials or library when the institute open period otherwise their can't access is. This is hardly effect for students who depend on these. And another problem is covid-19 situation we are currently facing so , that the institute can't allow the physical class or allow the student or professors inside the premises , if the student want to complete the studied correct time the institute provide the classes correct time as well. Show case the achievement make good use of it benefits students with notices, library, study materials, admissions procedure and so on.

In this situation it is necessary to have its own E-Learning management system that is fully customizable.

2. Aim & Objectives

2.1 Aim

The main aim of this web base development system is to simplify the task to facilitate 24/7 access to learning courses and relevant academic works for the users which are student and the professors.

2.2 Objectives

- ➢ To provide full overview of your selected course and the information of system and Showcase your course path.
- ➢ Provide the Proper resource management and provide access the study materials, notes of pdf files, tutorial videos to students.
- ➢ To do admission and the registration process and chatting with each others.
- ➢ To provide the system access 24/7 and any-where in the country.
- ➢ To provide the high security system for all student personal details and professors details.
- ➢ To provide the students and professors can view their profile details, upload assignments, download, and view tutorial videos.

3. Technologies & Resources

This E-Learning management system mainly create for the student and the professors at the institute. E-Learning management system should be access by any devices and the same time anywhere and anytime they can access the management system, because of that the technologies as html, css, JavaScript, php and MySQL. The resources that use for this E-Learning management system which are bootstrap, visual studio code editor, GitHub, google, W3 School, colorlib, materialize, agora. These are the resources use for create the E-learning management system correctly.

3.1 Technologies Use

HTML

HTML (Hypertext Markup Language) is the code that is utilized to structure a site page and its substance. For instance, satisfied could be organized inside a bunch of passages, a rundown of bulleted focuses, or utilizing pictures and information tables**.** HTML is a markup language that characterizes the construction of your substance. HTML comprises of a progression of components, which you use to encase, or wrap, various pieces of the substance to cause it to seem a specific way, or act a specific way. The encasing labels can make a word or picture hyperlink to elsewhere, can stress words, can make the textual style greater or more modest, etc.
(https://developer.mozilla.org/en-US/docs/Learn/Getting_started_with_the_web/HTML_basics)

Css

Cascading Style Sheets (CSS) is a template language used to depict the introduction of a record written in HTML or XML (counting XML vernaculars like SVG, MathML or XHTML). CSS portrays how components ought to be delivered on screen, on paper, in discourse, or on different media**.**CSS is among the center dialects of the open web and is normalized across Web programs as per W3C determinations. Already, improvement of different pieces of CSS detail was done simultaneously, which permitted forming of the most recent suggestions. You could have caught wind of CSS1, CSS2.1, and CSS3. Nonetheless, CSS4 has never turned into an authority form.
(https://developer.mozilla.org/en-US/docs/Web/CSS)

RAJKUMAR KALAICHUDAR
ID NUMBER: E028302
FINAL YEAR PROJECT PROPOSAL

JAVASCRIPT

JavaScript is a text-put together programming language utilized both with respect to the client-side and server-side that permits you to make site pages intuitive. Where HTML and CSS are dialects that give construction and style to website pages, JavaScript gives site pages intelligent components that draw in a client. JavaScript is essentially utilized for electronic applications and internet browsers. However, JavaScript is additionally utilized past the Web in programming, servers and implanted equipment controls. JavaScript permits clients to communicate with website pages. There are practically no restrictions to the things you can do with JavaScript on a web page.avaScript systems are assortments of JavaScript code libraries that give engineers pre-composed code to use for routine programming elements and undertakings in a real sense a structure to construct sites or web applications around.

(https://www.hackreactor.com/blog/what-is-javascript-used-for)

PHP

PHP began as a little open source project that developed as an ever increasing number of individuals figured out how valuable it was. Ramus Leadoff released the principal adaptation of PHP way back in 1994.PHP is a recursive abbreviation for "PHP: Hypertext Preprocessor".PHP is a server side prearranging language that is implanted in HTML. It is utilized to oversee dynamic substance, information bases, meeting following, even form whole online business sites. It is coordinated with various well known data sets, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.PHP is pleasingly zippy in its execution, particularly when arranged as an Apache module on the Unix side. The MySQL server, once began, executes even exceptionally complex inquiries with colossal outcome sets in unparalleled time.PHP upholds an enormous number of significant conventions like POP3, IMAP, and LDAP. PHP4 added help for Java and disseminated object designs (COM and CORBA), making n-level advancement and opportunities for the principal time.PHP language attempts to be however sympathetic as possible.PHP Syntax seems to be C-Like. (https://www.tutorialspoint.com/php/php_introduction.htm#:~:text=PHP%20is %20a%20server%20side,Informix%2C%20and%20Microsoft%20SQL%20Ser ve)

MySQL

MySQL is a social information base administration framework in view of SQL - Structured Query Language. The application is utilized for a wide scope of purposes, including information warehousing, online business, and logging applications. The most normal use for MySQL in any case, is with the end goal of a web data set. It tends to be utilized to store anything from a solitary record of data to a whole stock of accessible items for a web-based store. In relationship with a prearranging language like PHP or Perl (both presented on our facilitating accounts) it is feasible to make sites which will communicate progressively with a MySQL data set to quickly show sorted and accessible data to a site client.

(https://dev.mysql.com/doc/refman/8.0/en/what-is-mysql.html)

BOOTSTRAP

Bootstrap is the most well-known HTML, CSS and JavaScript system for fostering a responsive and versatile website. It is totally allowed to download and utilize. It is a front-end structure utilized for more straightforward and quicker web development. It incorporates HTML and CSS based plan layouts for typography, structures, buttons, tables, route, modals, picture merry go rounds and numerous others. It can likewise utilize JavaScript plug-insight works with you to make responsive designs. It is extremely simple to utilize. Anyone having fundamental information on HTML and CSS can utilize Bootstrap. It works with clients to create a responsive website. It is viable on a large portion of programs like Chrome, Firefox, Internet Explorer, Safari and Opera and so on

Bootstrap gives an essential construction Grid System, interface styles, and background. Bootstrap accompanies the element of worldwide CSS settings, key HTML components style and a high level matrix system. Bootstrap contains a ton of reusable parts worked to give iconography, dropdowns, route, alarms, pop-overs, and much more. Bootstrap additionally contains a ton of custom jQuery modules. You can without much of a stretch incorporate them all, or one by one. Bootstrap parts are adaptable and you can tweak Bootstrap's parts, LESS factors, and jQuery modules to get your own style.
(https://www.javatpoint.com/what-is-bootstrap)

JQUERY

JQuery is a quick, little, cross-stage and element rich JavaScript library. It is intended to work on the client-side prearranging of HTML. It makes things like HTML report crossing and control, liveliness, occasion taking care of, and AJAX exceptionally basic with a simple to-utilize API that chips away at a variety of sort of browsers. The primary reason for jQuery is to give a simple method for utilizing JavaScript on your site to make it more intelligent and appealing. It is likewise used to add activity.

JQuery is a little, light-weight and quick JavaScript library. It is cross-stage and supports various kinds of programs. It is likewise alluded as? Compose less accomplish more? Since it takes a great deal of normal errands that requires many lines of JavaScript code to achieve, and ties them into strategies that can be called with a solitary line of code at whatever point required. It is additionally extremely helpful to improve on a ton of the muddled things from JavaScript, similar to AJAX calls and DOM control.
(https://www.javatpoint.com/what-is-jquery)

GITHUB

Get is open-source adaptation control programming, utilized for overseeing and following document amendments. It very well may be utilized with any document type, yet is most frequently utilized for following code records. Get is the most broadly utilized rendition control framework in programming improvement, and GitHub use this innovation for its administration, consequently its name.

You've probably worked with some type of adaptation control previously. For instance, Google Docs (as well as other Google Workspace devices) has an "Adaptation History" apparatus where you can see changes to the report at various moments. Microsoft Office has something almost identical with its "Track Changes" include. Or then again, you could incline toward saving various duplicates of a document and marking them "v1", "v2", and so on

Progressed adaptation control is essential for programming projects, particularly cooperative ones. While building programming, engineers are every now and again and at the same time refreshing the code to add highlights and fix bugs. It wouldn't seem OK to roll out these improvements to the source code straightforwardly, since any issues would influence clients. All things considered, designers work with their own duplicates of the code,

RAJKUMAR KALAICHUDAR
ID NUMBER: E028302
FINAL YEAR PROJECT PROPOSAL

then, at that point - after the code has been totally tried - add this code to the primary codebase.
(https://kinsta.com/knowledgebase/what-is-github/)

3.2 Resource Requirement

Visual studio code

Visual Studio Code consolidates the effortlessness of a source code manager with strong designer tooling, as IntelliSense code fruition and troubleshooting. Above all else, a manager moves. The superbly frictionless alter assemble troubleshoot cycle implies less time tinkering with your current circumstance, and additional time executing on your thoughts.

Visual Studio Code upholds macOS, Linux, and Windows - so you can get down to business, regardless of the platform.Visual Studio Code includes a lightning quick source code proofreader, ideal for everyday use. With help for many dialects, VS Code assists you with being in a flash useful with grammar featuring, section coordinating, auto-space, box-choice, pieces, and that's only the tip of the iceberg. Instinctive console alternate ways, simple customization and local area contributed console easy route mappings let you explore your code effortlessly.

For genuine coding, you'll regularly profit from apparatuses with more code understanding than simply squares of text. Visual Studio Code incorporates worked in help for IntelliSense code culmination, rich semantic code understanding and route, and code refactoring. Furthermore, while the coding gets extreme, the intense get investigating. Troubleshooting is regularly the one element that engineers miss most in a more slender coding experience, so we got it going. Visual Studio Code incorporates an intelligent debugger, so you can venture through source code, investigate factors, view call stacks, and execute orders in the control center.
(https://code.visualstudio.com/docs/editor/whyvscode)

XAMPP

XAMPP is one of the broadly utilized cross-stage web servers, which assists engineers with making and test their projects on a neighborhood webserver. It was created by the Apache Friends, and its local source code can be changed or adjusted by the crowd. It comprises of Apache HTTP Server, Maria DB, and mediator for the different programming dialects like PHP and Perl. It is accessible in 11 dialects and upheld by various stages, for example, the IA-32 bundle of Windows and x64 bundle of macOS and Linux.

XAMPP is a condensing where X represents Cross-Platform, A represents Apache, M represents MYSQL
, also, the Ps represent PHP and Perl, individually. It is an open-source bundle of web arrangements that incorporates Apache appropriation for some waiters and order line executables alongside modules like Apache waiter, MariaDB
, PHP, and Perl.

XAMPP helps a nearby host or server to test its site and clients by means of PCs and workstations prior to delivering it to the primary server. A stage outfits a reasonable climate to test and confirm the working of tasks in view of Apache, Perl, MySQL information base, and PHP through the arrangement of the actual host. Among these advancements, Perl is a programming language utilized for web advancement, PHP is a backend prearranging language, and MariaDB is the most distinctively utilized data set created by MySQL.
(https://www.javatpoint.com/xampp)

Laptop

Laptop CPU is 2.0GHz AMD Ryzen or Intel 7 4700U.laptop RAM should be in 8GB or 16GB more than enough. The storage should be in 1TB and the now a day's laptop come with the SSD, it is also ok with the development. The laptop display is minimum 14 inch or 15.6inch more than for a web development. Laptop battery capacity up to 4-6 hours.
(https://laptop251.com/best-laptops-for-web-designing-and-development/)

Google

Google is a web search tool that began improvement in 1996 by Sergey Brin and Larry Page as an examination project at Stanford University to track down records on the Internet. Larry and Sergey later concluded the name of their web search tool expected to change and picked Google, which is enlivened from the term googol. ordinarily use Google for observing film timings, spell checking, self-image surfing, spotting syntactic mistakes in sentences, money transformation, getting word implications, for perusing lost sites and obviously for web search.
(https://www.computerhope.com/jargon/g/google.htm)

W3 School

W3Schools is a web designer's website, with instructional exercises and references on web improvement dialects like HTML, CSS, JavaScript, PHP, SQL, and JQuery, covering most parts of web programming. The webpage gets its name from the World

Wide Web (W3), yet isn't associated with the W3C.W3Schools was initially made in 1998, by Refsnes Data, a Norwegian programming advancement and counseling company.W3Schools has center around effortlessness, rehearsing simple and straightforward learning. We utilize straightforward code clarifications, and show how to utilize tithe instructional exercises start from fundamental level, and move as far as possible up to finish proficient references.
(https://www.w3schools.com/about/#:~:text=W3Schools%20is%20a%20school%20for,HTML%20Tutorial)

4. Methodology & Work plan

Waterfall methodology is use for this E-Learning management system development.

WATERFALL METHODOLOGY

The waterfall methodology is a direct undertaking the executives approach, where partner and client necessities are assembled toward the start of the task, and afterward a successive venture plan is made to oblige those prerequisites. The cascade model is so named in light of the fact that each period of the venture falls into the following, following consistently down like a cascade.

It's an exhaustive, organized approach and one that has been around for quite a while, on the grounds that it works. A portion of the enterprises that routinely utilize the cascade model incorporate development, IT and programming advancement. For instance, the cascade programming advancement life cycle, or cascade SDLC, is generally used to oversee computer programming projects.
(https://www.lucidchart.com/blog/pros-and-cons-of-waterfall-methodology#:~:text=Excludes%20the%20client%20and%2For,well%20for%20the%20software%20world.)

Why using the waterfall methodology for this project development?

Utilizes clear structure: When contrasted and different systems, Waterfall centers most around a reasonable, characterized set of steps. Its construction is basic each undertakings.

Decides the ultimate objective early: One of the characterizing steps of Waterfall is focusing on a finished result, objective, or deliverable toward the start, and groups ought to try not to stray from that responsibility. For little undertakings where objectives are clear, this progression makes your group mindful of the general objective all along, with less potential for losing all sense of direction in the subtleties as the venture pushes ahead.

Moves data well: Waterfall's methodology is profoundly calculated, so it should not shock anyone that the philosophy underscores a spotless exchange of data at each progression. Whenever applied in a product setting, each new advance includes another gathering, and however that probably won't be the situation at your organization, you actually should expect to archive data all through an undertaking's lifecycle.

The venture scope remains moderately static, importance cost and timetables can be resolved almost immediately in the task. By finishing a full plan from the get-go in the task, changes to frameworks stay negligible, meaning the expense to fix and adjust plans is kept low.
An organized way to deal with a task implies that everybody gets what should be done and when. SMEs can really design their time over the decent period. By having definite documentation and plans, an undertaking can lose key individuals without a lot of problem since the documentation depicts in sensible detail how any SME of the item or ability are expected to finish the work.

This model is basic and straightforward and use.It is not difficult to oversee because of the inflexibility of the model - each stage has explicit expectations and an audit cycle. In this model stages are handled and finished each in turn. Stages don't overlap. Waterfall model functions admirably for more modest tasks where necessities are plainly characterized and very surely knew.
(https://developer.ibm.com/articles/waterfall-model-advantages-disadvantages/)

Work plan

task	start date	days of complete
brain-stoming on project tittle selection	20-Feb	1
select the tittle and create a project tittle registration form	21-Feb	8
brain-sroming on project proposal creation	6-Mar	1
create the project proposal	6-Mar	10
planning project	7-Mar	15
design the project system	22-Mar	12
design the project system database	4-Apr	12
development the project	16-Apr	32
create the test plan	18-May	12
testing and QA	31-May	20
create the final report of the project	20-Jun	20

Figure: 01
(Author: Rajkumar kalaichudar , 2022/03/11)
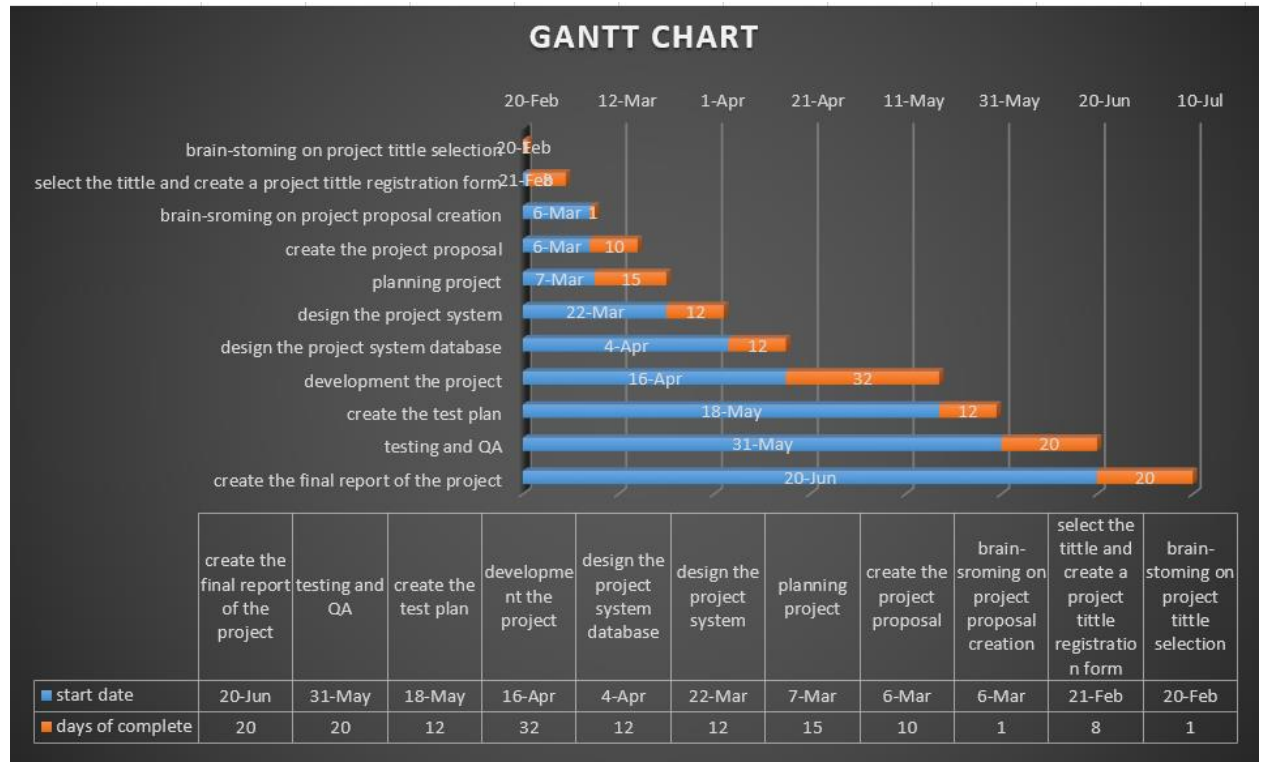
Gantt chart for the work plan

GANTT CHART

	create the final report of the project	testing and QA	create the test plan	development the project	design the project system database	design the project system	planning project	create the project proposal	brain-sroming on project proposal creation	select the tittle and create a project tittle registration form	brain-stoming on project tittle selection
start date	20-Jun	31-May	18-May	16-Apr	4-Apr	22-Mar	7-Mar	6-Mar	6-Mar	21-Feb	20-Feb
days of complete	20	20	12	32	12	12	15	10	1	8	1

Figure : 02
(Author : rajkuamr Kalaichdar , 2022/03/11)

Milestones

Milestone	description	Number of days to complete the milestone
Select the project topic	Select the topic for project and create the registration form this project	8 days
Project proposal	after the tittle selected should create the project proposal	10 days
Planning the project	Planning how to complete the project for this allocated time	15 days
Design the project system	Create the features of the system	12 days
Design the project system database	Create the system database for save the data from the system	12 days

RAJKUMAR KALAICHUDAR
ID NUMBER: E028302
FINAL YEAR PROJECT PROPOSAL

development	Develop the system according to the design that you created	32 days
Test plan	Create the test plan for created system	12 days
Testing and QA	This testing should be maintain within the test plan	20 day
Final report	The created system tested the final report should be create	20 days

Table : 01

Deliverables

1. Website contents
   - Informative page on E-learning & Information Systems and its history.
   - Student and professor database tables(which retains student's and professor's informations and other necessary details)
     - ➢ Results
     - ➢ Student payment status
     - ➢ Admission status for the students
     - ➢ Professors status
   - Access the study materials include video resources uploaded by the professors, pdf books for the studies.
   - Secure community page accessible only by the professors and the student who register into the system.
   - Result publish
   - Online notices
   - Chatting with each others. (Professors with students, admin with student and professors with admin).

2. Details user's manual on using and maintain the system.
   - Introduction to the system and its integrated backend systems.

   - Description of administrative tools provided for the system
   - Troubleshooting guide cum FAQ.

- Login information for various administrative purposes for the system users.

- admin is the one update the system and view all details of users(students and professors)

- Admin is the only one register the all users and send the login details to the specific users.

3. Website system Features
   - Upgrade client experience
       Search capacity to:
           Assist guests with observing data they need on the system.
           Give guests more control by the way they interface with A&IS system.

   - Search optimization.
       Only the user's search information on the system, admin will also be able to find information via search engines With Search Engine Optimization (SEO).

   - Account access
       Understudies, and teachers will have their own record where every one of the methodology and data will be accessible by information base/ERP programming arrangement.

   - individual Email address
       Clients will have their own custom email address which can be utilized as true email address and be utilized to benefit various offers accessible for understudies and teachers.

   - Security for online enlistment by administrator
       Enlistments, exchanges, reports and so forth are shielded from Malignant and extortion assaults.

   - Confirmation Procedures
       Results and notice for all courses. Projects can be distributed through the site. Additionally the affirmation techniques of

courses that is right now handled by this e-learning the board framework.

4. User login and user registrations

   User registration process handle by the system admin, when the admin complete the registration process, the user user's username and the password send through email for the specific user. After that user can login into the system then the if he/she want to change the password can change it.

5. Chatting though the system

   Users can chat with each other's for the study purpose only. Student can chat with the specific professor and the professor also chat with the specific or group chat. Student or professors want to chat with the system admin it's also possible for all users.

5. Proposed Solution

This E-Learning management system is mainly develop for an institute to help the learning process and academic process for all students and the professors of the institute. E-Learning management system functions are online based so the students and the professors can taught or learn anywhere in the country. now a days all the institute build the E-learning management system to continue they academic activities through the online platforms.so that purpose and the covid-19 situation we are currently facing for that develop this E-Learning system student continue their studied according to the time period.

this E-Learning management system not only for the academic purpose only other wise student and professors chat through the system about studied anytime and anywhere in the country. In this system student personal details and the professor's personal details are view by that specific user only and the system admin only one view the all of the student details and professors' personal details. In this case the personal details of users are well protected and saved in the well secure database. In this system users only can access by the login username and password entering it into the system.

5.1 Suggested Starting Point

In order to start on this project:
   i. Collect all the user requirement that you get from the client.
   ii. Change the user requirement into system requirement.
      1. Functional requirement.
      2. Non-functional requirement.
   iii. Use the correct methodology for this project.
   iv. Develop the system first have to plan the system how to be develop?
   v. Design the system and the database for this system
   vi. After the design then develop the system according to the design.
   vii. Create the test plan.

If you have these all points then only you have to develop or starting the project.

6. Discussion

According to this final project we have discuss with our supervisor. This discussion about the system project tittle selection. Our supervisor discuss with how many entities minimum we should consider for this system development. If we maintain the count of entities count he provide us the system could be approved and the system should be provide the high security for all students and professors personal details and maintain the system.

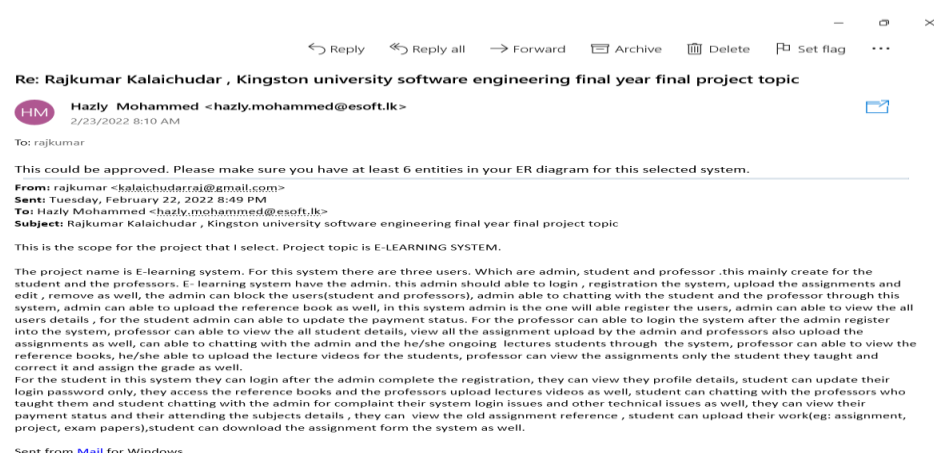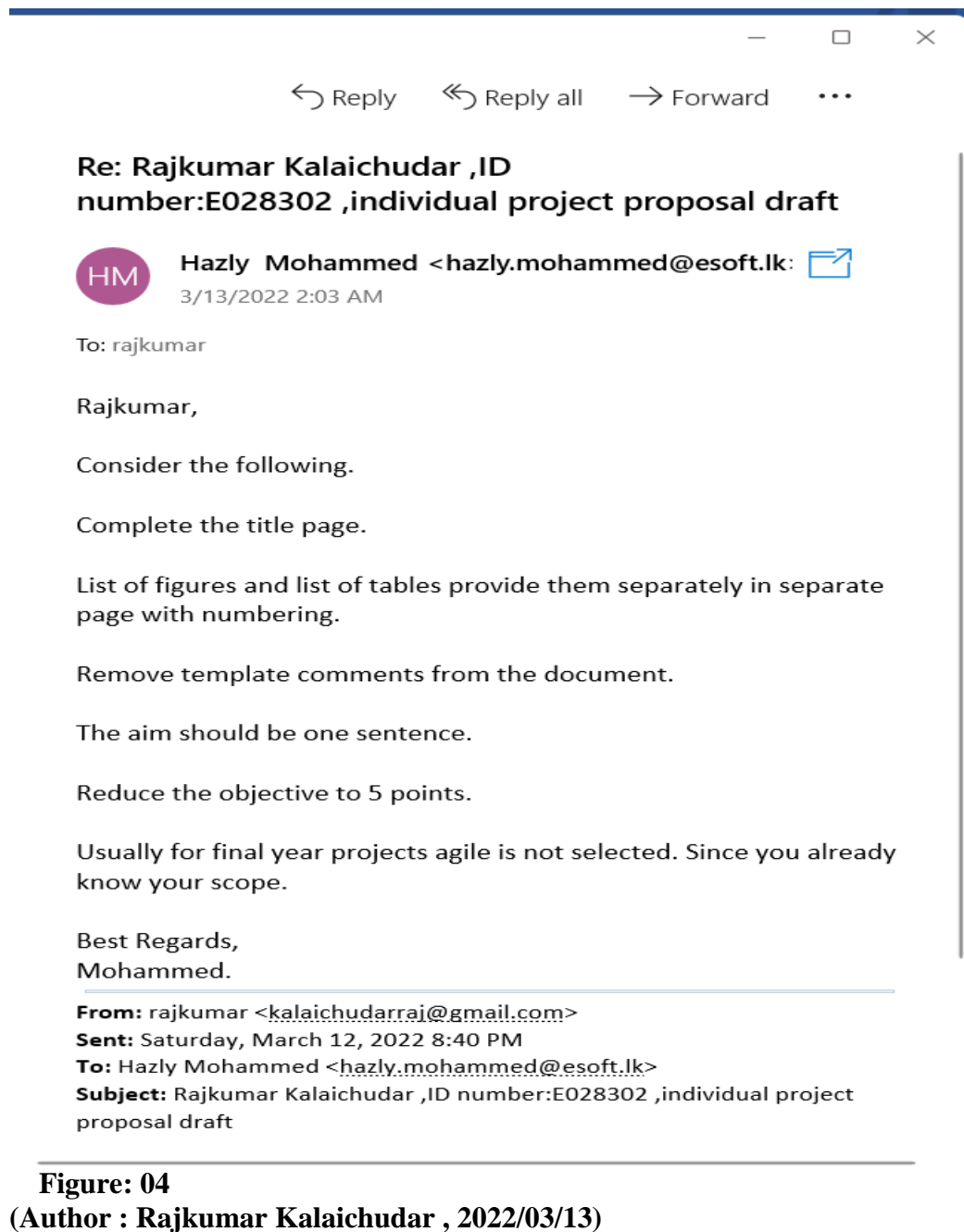**Proof of email for Discussion with supervisor**

Figure: 03
(Author: Rajkumar Kalaichudar , 2022/02/27)

Figure: 04
(Author : Rajkumar Kalaichudar , 2022/03/13)

7. References

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➢ https://www.hackreactor.com/blog/what-is-javascript-used-for
➢ https://www.tutorialspoint.com/php/php_introduction.htm#:~:text=PHP%20is%20a%20server%20side,Informix%2C%20and%20Microsoft%20SQL%20Server.
➢ https://skillcrush.com/blog/99-web-design-resources-free/#frameworks-templates-code-packs-themes
➢ https://code.visualstudio.com/docs/editor/whyvscode
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