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**Independent University, Bangladesh**

**Web development of codingcenterbd.com (User and Online Learning module) at MY SOFT IT**

An undergraduate report submitted by,

**Shihab Mahmud (ID: 1631203)**

In consideration of the partial fulfillment of the requirement for the degree of,

**Bsc. in Computer Science and Engineering**

Department of Computer Science and Engineering, Autumn 2020

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has been approved on --/--/--.

**Mohammad Noor Nabi**

Internship Supervisor and Senior Lecturer

Department of Computer Science and Engineering

School of Engineering and Computer Science

Independent University, Bangladesh

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Shihab Mahmud

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# ABSTRACT

The report is broadly categorized into five different chapters. At first, there is an introduction followed by the objectives of the study and scope of the report along with background of the project and limitations. Second chapter describes the overview of MY SOFT IT. Third chapter focuses on literature review. Fourth chapter deals on development phases of MYSOFTIT-Training.com and major works involved in the project, which is categorized in Planning, Designing, Software development models, Implementation, Testing, Deployment, and maintenance. Fifth chapter narrates a concluding summary and recommendation.

In this internship report, Web Development of Online training module for MY SOFT IT is studied. Here, my team member and I tried to create a robust online learning website for various courses offered by a newly opened section of MY SOFT IT. The system is to operate much like any standard online learning platform found in the internet, namely, Udemy.com, Coursera.com, LinkedInLearning.com etc. where students have to register and enroll in various offered courses of their choice, then follow the standard learning and testing procedure of said course to get an online certification from MY SOFT IT.

As this is a teamwork and a very big project, there are several modules of this project like admin module, personalized user dashboard, course management system. My job was to propose and create this entire project with the help of other employees at the company.

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# 1 INTRODUCTION

This chapter gives an outlook about the project and its features. Web application has become a necessity of any organization which has a number of members associated with it, along with new members interested in it. The internet is the best way to introduce the organization that provide current and future information to its members. A web presence is also necessary to define the legitimacy of an organization.

## 1.1 BACKGROUND

Independent online learning platform in Bangladesh is pretty few and far between is a field that holds quit a promise. Western and European countries like United States, Canada, England, and many others, utilizes this field and have shown its potential to aid the education system in general. The recent pandemic holds the testament to this statement. Due to massive lockdown all over the world, almost every country in the world had to resort to an online learning system and have had a brush with this particular format of teaching and felt its usefulness and place in the current education system. Other than the conventional educational institution, there were already established and reputed online learning portals that are well recognized in this field, namely, LinkedIn Learning, Coursera, Udemy and few others.

In our local scene, initiatives like Bohubrihi.com, Repto.com.bd, bdu.ac.bd are somewhat known for the valiant effort to establish this field. Other somewhat conventional portal like 10minuteschool is also worth mentioning.

The main goal of an online learning portal is to give the learners a platform to learn by going through a specific, determined curriculum set by qualified moderators and upon completion give out an acknowledgement in the form of a professional certificate [1]. An online learning portal reduces the burden of transportation, physical attendance and time management, structural availability aspect of learning and gives the students to learn at their own time and pace. It is certainly a bit different approach compared to the conventional learning methodology offered by professional institution, but the main goal remains same, which is to help distribute knowledge to the learners. With this fundamental vision in mind, MYSOFT IT is trying to establish a web development learning portal for the local masses who are willing to take some time out of their day to learn a new web development skill from the comforts of their own home.

## 1.2 OBJECTIVES

* **Automating the learning process:** The main objective of this project is to give students an organized, well-structed, curriculum-based education, which is available anytime, anywhere for the purpose of convenience.
* **Maintaining the quality of education:** A well thought out syllabus of maintaining a quiz-based evaluation system helps the teacher/administrator assess the learner’s capability and gives the learners to test out their knowledge, just like they would in a conventional education system.
* **Saving time and cost:** Having an always online learning portal gives the students the convenience of eradicating transportation cost, as well as valuable time from the busy schedule of their everyday routine and gives them the chance to learn the course materials at their own speed and time.

## 1.3 SCOPE OF THE PROJECT

Features available to user and administrator after developing the web application are:

* Home/Main page about the offered courses.
* User Signup page.
* User and Admin Login page.
* Admin panel page includes edit, create, delete functionality of specific data.
* User panel page includes edit, create, delete functionality of specific data.
* Course materials page includes quiz and course related information.
* Contact page.

## 1.4 OUT OF SCOPE OF THE PROJECT

For the time being, the development of following features is on hold for further notices.

* Live chat features among users like audio/video calling modules.
* Live class taking module with a detailed online drawing/typing module.
* Live comment functionality.

# 2 COMPANY PROFILE

## 2.1 OVERVIEW OF MYSOFT IT

MYSOFT IT is one of the well-known web development and design company in Bangladesh. It is a company where your ideas count, where your determination can create a new world of opportunity for you, where your talent and hard works are rewarded and noticed. At MYSOFT IT we always endeavor to lead towards development and creating a flexible, dynamic, and cooperative organizational culture. MYSOFT IT is one the promising software, web application companies of Bangladesh which aims at creating a new standard in the era of software technology.

MYSOFT IT is the brainchild of some fresh youth brains. These young minds not only dreamt about something big, but they also chased it and still going strong at it. The birth of MYSOFT IT happened when a bunch of dream seekers planned for something extraordinary in the web development scene, recruited efficient workers and paved the way for making the dream come true and at the time of this report, quite adamant that the best is yet to come.

## 2.2 COMPANY PROFILE OF MYSOFT IT

MYSOFT IT [2]started as a start-up web and software development company in 2012. We are growing up a Software Development and Web design company in Uttara, Dhaka, Bangladesh. Our teams are highly experienced, creative and Professionals talented, to provide software development and Web solution. We are pervasive information, extended in performance, progressive in style. Our service is designed to give complete end-to-end solutions for our clients. Our specialized team build software product with the creative and innovative system for customers. We are entirely provided with Software development, web designing and e-commerce website development, Graphics designing, facebook marketing, online marketing and SEO, Domain Registration, and web hosting. We take our responsibility for clients satisfactory and also believe in our quality and deadline.  Client relationships are more valuable for us that create mutual respects. Also, we give essential of our and clients time as well as money. We believe our responsibilities extend beyond business and works to assist people in every sector by using the innovative software. Our talented and professional team quickly grave client requirements and consult them. We always trust in our quality and deadlines. We never lose our and our clients time as well as money. We value our client's ideas and creativity which help us improve our knowledge and experience also. We have the separate expert for a particular service and always give the best support and assistance to our clients. [2]

## 2.3 MISSION, VISION, VALUE

We work in mission critical environments with large volumes of sensitive data, so our highly experienced team strives to reduce risk, improve performance, and promote sustainable business. Government and state agencies rely on us in designing and implementing end-to-end ID management solutions. We bring innovation not only in our technologies but also in the way we manage our projects and deliver our solutions. Our expertise in consultancy, project management, training and support combined with our relentless quest for customer satisfaction through on-time, on-budget and on-spec delivery of complex turnkey solutions has earned MYSOFT IT an enviable reputation in the web development industry.

MYSOFT IT builds on its experience and specialized skills to provide national scale IT solutions. With dynamic partnerships, MYSOFT IT provides turnkey solutions that are sustainable and meet international standards. MYSOFT IT wishes to be the one of largest IT company in the history of Bangladesh by providing outstanding services to the global clients.

At MYSOFT IT, we are highly ethical, genuine, honest, and trustworthy. We keep our promises and commitments. We do things which are right for our stakeholders, both internal and external. We act responsibly, and always hold ourselves accountable for our work and how it is achieved. [2]

## 2.4 PRODUCTS AND SERVICES

* **Web Application**

We develop customized web applications, Responsive websites, WordPress theme development, Dynamic websites, E-commerce solutions and so on. [2]

* **App Development**

We also develop iPhone and Android apps suitable for our clients needs. Our professional team of android and iPhone app developers research and analysis to meet your requirements and expectations. [2]

* **UX/UI Design**

Need improvement to your website? Complete redesign and build? Or need a brand-new website with great user experience? Our team of skilled experts can help as we have done it hundreds of times. [2]

* **Online Marketing**

Our expert team can help clients stay focused on their operations, and market your product online and in social platforms. We help our clients to enter the business world and making top in search engines. [2]

* **Online training (new)**

We have the reputation of delivering quality web development courses to our students over the years as a sub-section of the company and now we are trying to transport that section completely online and manage as well as deliver our quality online web development training online. [2]

* **Cyber Security**

Be the witness to unmatched experience of our cyber security strategies, who will assess your risks and help you protect your website. [2]

* **Great Support**

We handle all updates, security, and monitoring for you. You will know your systems are running smoothly all the time. [2]

# 3 LITERATURE REVIEW

## 3.1 INTRODUCTION

Ever since the invention of writing in 3500 B.C. the idea of sharing knowledge exists in our society. Getting education on specific skill/subject via an institution is commonplace but since the dawn of internet which ushered in the era of information sharing, education via online medium has seen many forms. The latest in trend is e-learning website. Where a website offers valued subject matter, just as taught in a professional educational institution, to its audience and upon completion gives out a certificate of acknowledgement. The idea behind is simple, giving convenience to a student regarding his ability to learn.

This idea of learning online is quite prominent in western culture as of late. Some of the online learning platforms has garnered quite a following and well-deserved reputation among the students worldwide due to the quality and prestige of the course instructor and materials. Namely, Coursera, Udemy, Lynda.com are to name a few [3]. These aforementioned websites have helped millions of students get a good grip of a subject matters since the inception of online learning and continues to do so to this day. As for local scene, 10minutesschool, Bohubrihi.com are also very trustworthy names in our country when it comes to learn conventional subjects or specific technological skill.

## 3.2 ONLINE LEARNING WEBSITE OVERVIEW

As mentioned above, there are many online learning websites available, recognized both nationally and internationally, below a brief overview of those websites are given,

1. **Coursera.org**: It is an American massive open online course (MOOC) provider founded in 2012 by Stanford University's computer science professors Andrew Ng and Daphne Koller that offers massive open online courses (MOOC), specializations, degrees, professional and mastertrack courses. Coursera works with universities and other organizations to offer online courses, certifications, and degrees in a variety of subjects.

Coursera courses last approximately four to twelve weeks, with one to two hours of video lectures a week. These courses provide quizzes, weekly exercises, peer-graded and reviewed assignments, an optional Honors assignment and sometimes a final project or exam to complete the course. Courses are also provided on-demand, in which case users can take their time in completing the course with all of the material available at once. As of May 2015, Coursera offered 104 on-demand courses it also provides guided projects which are short 2-3 hours projects that can be done. [4]

1. **Lynda.com:**  Lynda.com now known as LinkedIn Learning is an American website offering video courses taught by industry experts in software, creative, and business skills. It is a subsidiary of LinkedIn. All the courses on LinkedIn fall into 3 categories: Business, Creative, and Technology. [5]
2. **Udemy.com:** Udemy, Inc. is an American massive open online course (MOOC) provider aimed at professional adults and students. Students take courses largely as a means of improving job-related skills. Some courses generate credit toward technical certification. Udemy has made a special effort to attract corporate trainers seeking to create coursework for employees of their company. Courses are offered across a breadth of categories, including business and entrepreneurship, academics, the arts, health and fitness, language, music, and technology. Courses on Udemy can be paid or free, depending on the instructor. [6]
3. **10minuteschool.com:**  10 Minute School is an online educational platform in Bangladesh created in 2015. Since the beginning of its journey, 10 Minute School went on to cover the entire academic syllabus from Class 1 through Class12, university admission subjects covering topics from public and private university examinations and extensive software and skills training. [7]
4. **Bohubrihi.com:**  Bohubrihi.com is one of Bangladesh’s leading educational platform for superior online courses, professional training and corporate eLearning services that help students develop useful skills and accomplish more in life. Their online courses and career-track programs are designed in collaboration with the industry experts and organizations in Bangladesh. [8]

All of these aforementioned websites follow a complete online based educational system, they can all run in traditional PC format to any handheld device format. The main form delivering subject matters for all these websites is video sharing, the international ones have their own video streaming service while the local ones use youtube as their video streaming service. All of them provides some sort of acknowledgement after the completion of their various offered courses.

# 4 DEVELOPMENT PHASE OF MYSOFT IT ONLINE LEARNING WEBSITE

## 4.1 SOFTWARE DEVELOPMENT OF PROCESS codingcenterbd.COM

* User registration
* It is the first part of development of the software.
* User should be able to register upon providing all the required information.
* Upon successful registration, user should be granted authorized login.
* Upon successful login, user should be able to access all the interactivity aspect of the website.
* Course enrollment
* User should be able to select any course of their choice and enroll to be able to see the course materials and be officially considered as a course attendee.
* Upon successful enrollment, user will be counted as enrolled student to that particular course.
* User will have access to all the course materials respectively in a progressive manner.
* Course attendance
* User will be shown a ‘seen’ notification icon besides every lesson upon going through each available lesson/activity available within a course.
* Quiz portion of the course will not be available until all the previous lesson are completed.
* Course test evaluation
* Specialized user (Teacher) can see all the submitted answer scripts of a course.
* Specialized user (Teacher) can grade all the submitted answer scripts of a course and put them on the website for the users to see.
* Course rating and certificate awarding
* Courses can be rated by users based on their experience.
* Upon successful completion of a course, user will be awarded a certificate of completion.

## 4.2 SOFTWARE DEVELOPMENT ACTIVITIES OF codingcenterbd.com

This website will have 3 types of user. Namely, Administrator, Teacher, Student.

**Admin Activities**

* Login to the system.
* Authorize a teacher (Specialized user).
* See list of all registered user.
* Delete any user.
* Create a course.
* Remove a course from public view.
* Send mail to any specific user.

**Teacher Activities**

* See assigned course list.
* Creating new course material.
* Editing course material.
* View student submissions.
* Grade student submission.
* Providing general information about themselves.
* Contact administrator.

**Student Activities**

* Creating an account.
* Enrolling to an available course
* Getting access to course materials.
* Giving course specific examinations.
* Submitting answers.
* Apply for certificate upon completion.
* Rate a course.
* Contact administrator/teacher.

## 4.2.1 METHODOLOGY

A software development methodology or system development methodology in software engineering is a framework that is used to structure, plan, and control the process of developing an information system. [9]

There are several software development methodology. Such as

* Waterfall Model
* Prototype Methodology
* Rapid Application Development
* Dynamic System Development Model Methodology
* Agile Software Development Methodology
* Spiral Model

We choose agile process as methodology for this project.

The Agile Methodology is based on iterative and incremental development instead of a linear approach. It does not build an entire system at once, but rather develops incrementally. Less time is invested upfront for documentation and analysis, as clients are constantly seeing and testing the product and providing feedback. The development and feedback process adds accountability (tangible milestones of completed work, not just documentation), and tends to improve client satisfaction by allowing ongoing input. [9]

Diagram

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Figure 4. Agile software development methodology.

There are several reasons for choosing agile process.

**Better product quality:** Agile methods have excellent safeguards to make sure that quality is as high as possible by

* Embracing technological excellence, good design, and sustainable development.
* Defining and elaborating on requirements just in time so that knowledge of product features is as relevant as possible.
* Incorporating continuous integration and daily testing into the development process, allowing the development team to address issues while they are fresh.
* Taking advantage of automated testing tools in order to develop during the day, test overnight, and fix bugs in the morning.
* Conducting sprint retrospectives, allowing the scrum team to continuously improve processes and work.
* Completing work using the definition of done; developed, tested, integrated, and documented.

**Higher customer satisfaction**: Agile project teams satisfy customers by

* Keeping customers involved and engaged throughout projects.
* Having a product owner who is an expert on product requirements and customer needs.
* Keeping the product backlog updated and prioritized in order to respond quickly to change.
* Demonstrating working functionality to customers in every sprint review.
* Delivering products to market quicker and more often with every release.
* Possessing the potential for self-funding projects.

**Customized team structures**: Self-management puts decisions that would normally be made by a manager or the organization into scrum team members’ hands. Because of the limited size of development teams — five to nine people — agile projects can have multiple scrum teams on one project. Self-management and size-limiting mean that agile projects can provide unique opportunities to customize team structures and work environments.

**More relevant metrics:** The metrics agile project teams use to estimate time and cost, measure project performance, and make project decisions are often more relevant and more accurate than metrics on traditional projects. On agile projects, you provide metrics by

* Determining project timelines and budgets based on each development team’s actual performance and capabilities.
* Having the development team that will be doing the work provide effort estimates for project requirements Using relative estimates, rather than hours or days, to tailor estimated effort to an individual development team’s knowledge and capabilities.
* Refining estimated effort, time, and cost on a regular basis, as the development team learns more about the project.
* Updating the sprint burn down chart every day to provide accurate metrics about how the development team is performing within each sprint.
* Comparing the cost of future development with the value of that future development, which helps project teams determine when to end a project and redeploy capital to a new project.

**Improved performance visibility:** On agile projects, every member of the project team has the opportunity to know how the project is going at any given time. Daily scrum meetings, daily sprint reviews, and visible progress charts offer concrete ways to see progress.

**Increased project control:** The many opportunities to inspect and adapt throughout agile projects allow all members of the project team — the development team, product owner, scrum master, and stakeholders — to exercise control and ultimately create better products.

**Improved project predictability:** Agile project management incorporates several practices, artefacts, and tools for improved predictability:

* Keeping sprint lengths and development team allocation the same throughout the project allows the project team to know the exact cost for each sprint.
* Using individual development team speed allows the project team to predict timelines and budgets for releases, the remaining product backlog, or any group of requirements.
* Using the information from daily scrum meetings, sprint burn down charts, and task boards allows the project team to predict performance for individual sprints.

**Reduced risk:** Agile techniques virtually eliminate the chance of absolute project failure:

* Developing in sprints, ensuring a short time between initial project investment and either failing fast or knowing that a product or an approach will work.
* Always having a working product, starting with the very first sprint, so that no agile project fails completely.
* Developing requirements to the definition of done in each sprint so that project sponsors have completed, usable features, regardless of what may happen with the project in the future.
* Providing constant feedback on products and processes through daily scrum meetings and constant development team communication, sprint reviews and retrospectives, and releases in which the end user can see and react to new features on a regular basis.
* Generating revenue early with self-funding projects, allowing organizations to pay for a project with little up-front expense.

## 4.2.2 PLANNING

Planning is one of the important part of software development life cycle. In this stage software development plan is decided. For our online learning module, we prepare a plan. Our plan is first we perform feasibility study that will tell us this project is feasible or not. Then we will gather requirement. We will gather both functional and nonfunctional requirement which will helps us to find scope and out of scope of the project. To gather requirement our plan is make survey into different group of people like potential teacher, admin, and general user of this project. Moreover, we will try to prepare a Business Requirement Document (BRD) for this project. Finally, we will go for design and coding.

## 4.2.2.1 Feasibility Study

In case the system proposal is acceptable to the management, the next phase is to examine the feasibility of the system. The feasibility study is basically the test of the proposed system in the light of its workability, meeting user’s requirements, effective use of resources and of course, the cost effectiveness. These are categorized as technical, operational, economic, schedule and social feasibility. The main goal of feasibility study is not to solve the problem but to achieve the scope. In the process of feasibility study, the cost and benefits are estimated with greater accuracy to find the Return on Investment (ROI). This also defines the resources needed to complete the detailed investigation. The result is a feasibility report submitted to the management. This may be accepted or accepted with modifications or rejected.

In short, following decision are taken in different feasibility study:

**Economic feasibility:** This is an automated software for online learning. Usually, students who require training of any sort, have to go to a training center or institution physically to attend the training and get the knowledge. But having an online education portal eliminates the redundancy to traveling to and from a training center, hence saves the transportation cost for students as well as other costs that may come with it.

**Operational feasibility:** To run any education system manually takes a lot of bookkeeping and costs on the managerial side. Having an online system ready to store and serve the learning materials reduces that hassle and keeps the system clean and well stored.

**Organizational feasibility:** MY SOFT IT is mainly a web development company but having an IT training center helps to earn a passive income as well as a way to give back to the community, helping society in general.

**Technical feasibility:** MY SOFT IT is a reputed software company in Bangladesh. It has technical expert system developer team. They are highly qualified to make any software and reach any requirement goal. As well as company has a lot of resources to create this kind of software. Making this software is technically feasible. Although at the time of writing this report, the development process is very much is in the early steps, all the necessary steps have been considered very carefully from the beginning with a keen technical vision.

**Social feasibility:** As mentioned before, giving the knowledge of web development to eager student, MY SOFT IT is helping the community, especially the younger demographic by keeping them off the streets and engaging them with an activity that may help them build a career later in life. This is considered socially feasible.

## 4.2.2.2 Requirement

Requirements Analysis is the process of defining the expectations of the users for an application that is to be built or modified. Requirements analysis involves all the tasks that are conducted to identify the needs of different stakeholders. Therefore, requirements analysis means to analyze, document, validate and manage software or system requirements. High-quality requirements are documented, actionable, measurable, testable, traceable, helps to identify business opportunities, and are defined to a facilitate system design.

We prepare some survey questioner for both Tournament organizers and general users. Survey questioner adding in the appendix A. Based on the answers we find out Functional requirements for this project.

## 4.2.2.2.1 Functional Requirement

A functional requirement defines what a website and its component are and what these components are supposed to accomplish. The following functional requirements were gathered, and their inputs, behavior and output are discussed below.

Table 4. 1 Compatibility

|  |  |  |
| --- | --- | --- |
| **Name of the function**: ***Must be compatible with all device such as Computer, Tablet, Smart phones.*** | | |
| **Input**:   * N/A | **Process:**   * Apps must be developed in a common development environment. | **Output:** Web application will be accessible via every devices |
| **Pre-Condition:**   * User must have a computer, laptop, tablet, or smart phone which has the ability to run the app. | | |
| **Post-Condition:**   * Everyone can use the web application. | | |
| **Alternate Option:**   * N/A | | |

Table 4. 2 Sign up

|  |  |  |
| --- | --- | --- |
| **Name of function**: ***Sign up an account.*** | | |
| **Input**:   * Email, New password, general information. | **Process:**   * Signing up in the web application via filling up a web form. | **Output:** View login interface in the app and can sign in the web application using that account |
| **Pre-Condition:**   * Must have internet connection and devices like computer or smart phone. | | |
| **Post-Condition:**   * User can login and use the web app. | | |
| **Alternate Option:**   * If email or UserID, Password or other provided information are not valid then show the alert please give valid information for every fields in the form. | | |

Table 4. 3 Login

|  |  |  |
| --- | --- | --- |
| **Name of function**: ***Login account.*** | | |
| **Input**:   * Email, User type, Password | **Process:**   * Signing in the web application. | **Output:** View the main interface in the application. |
| **Pre-Condition:**   * Must have internet connection and devices like computer or smart phones. | | |
| **Post-Condition:**   * User can view all the interfaces and can use the web app. | | |
| **Alternate Option:**   * If email or UserID and Password is not correct then show the alert, Email or Password is incorrect. | | |

Table 4. 4 User Profile

|  |  |  |
| --- | --- | --- |
| **Name of function**: ***Every user can see individual profile.*** | | |
| **Input**:   * Email, User Type, Password | **Process:**   * Go to profile page. | **Output:** User can see all of his/her provided information. |
| **Pre-Condition:**   * Be “Logged In” and access the ‘Profile’ page. | | |
| **Post-Condition:**   * User can see his all-own information from database in his web application. | | |
| **Alternate Option:**   * If user is not logged in, then user cannot access the profile page. | | |

Table 4. 5 Change profile information

|  |  |  |
| --- | --- | --- |
| **Name of function**: ***User have ability to edit, update users own information.*** | | |
| **Input**:   * Email, User Type, Password. | **Process:**   * Change or update existing information. | **Output:** User can see updated information. |
| **Pre-Condition:**   * Be “Logged In” and access the ‘Profile’ page. | | |
| **Post-Condition:**   * The changed data will be updated in the database. | | |
| **Alternate Option:**   * If any error is found during updating profile information like wrong email format, short password etc. from the database, system will show an alert. | | |

Table 4. 6 Enroll in a course.

|  |  |  |
| --- | --- | --- |
| **Name of function**: ***Enroll in an available course*** | | |
| **Input**:   * Email, User Type, Password. | **Process:**   * Select and enroll to any available course. | **Output:** User can enroll in a course and see the notice of ‘Enrolled’ status on a course |
| **Pre-Condition:**   * Be “Logged In” and eligible to enroll in a course. | | |
| **Post-Condition:**   * The status on the course will be changed after enrolling. | | |
| **Alternate Option:**   * If the course is not available, should show the error message. | | |

Table 4. 7 View course materials.

|  |  |  |
| --- | --- | --- |
| **Name of function**: ***Viewing available course materials*** | | |
| **Input**:   * Email, User Type, Password. | **Process:**   * Going to profile dashboard and see the enrolled course list, if any. Then select the course to see the materials. | **Output:** List of courses shown in the personal dashboard along with the course materials. |
| **Pre-Condition:**   * Must be logged in and enrolled in a course. | | |
| **Post-Condition:**   * Courses and materials should be shown once enrolled to a registered user’s profile dashboard. | | |
| **Alternate Option:**   * Will show suggestion if not enrolled. | | |

Table 4. 8 Comment Section.

|  |  |  |
| --- | --- | --- |
| **Name of function**: ***Commenting on selective areas of web apps.*** | | |
| **Input**:   * Email, User Type, Password. | **Process:**   * Selective areas of web app should have comment sections that are commendable. | **Output:** Posted comment should be visible for all users. |
| **Pre-Condition:**   * Must be logged in. | | |
| **Post-Condition:**   * Every type of user should be able to see the comment once posted. | | |
| **Alternate Option:**   * Guest users should be shown a prompt to be registered user. | | |

Table 4. 9 Contact.

|  |  |  |
| --- | --- | --- |
| **Name of function**: ***Contact the webmaster via the contact page.*** | | |
| **Input**:   * N/A | **Process:**   * Browse to the contact page and fill up the form to send an email to the admin. | **Output:** An email will be sent with a successful message sent prompt. |
| **Pre-Condition:**   * Must know how to use a computer. | | |
| **Post-Condition:**   * Should get a prompt confirming that the email has been sent to the administrator. | | |
| **Alternate Option:**   * Invalid email should show the error message. | | |

Table 4. 10 Admin Panel

|  |  |  |
| --- | --- | --- |
| **Name of function**: ***Admin Panel.*** | | |
| **Input**:   * Email, User Type, and after login click profile button. | **Process:**   * After login as Admin, admin can see admin panel page and can control everything in the system like add user, start match, delete user, delete match etc. | **Output:** Data will insert, update, delete in the database. |
| **Pre-Condition:**   * User must be logged in as Admin in the web app and must have internet connection. | | |
| **Post-Condition:**   * Data will be inserted/deleted/updated in the database and reload the page and Amin can see the updated data, if any. | | |
| **Alternate Option:**   * If some input field not filled or given invalid information, then system will show alert. | | |

## 4.2.2.2.2 Nonfunctional requirements

The non-functional requirements are listed in this section to identify the major operations of the system. There are various types of non-functional requirements like performance, security, reliability, maintainability, extensibility, feasibility, economical, operational, technical, which are in this section and they are often qualities.

**PERFORMANCE REQUIREMENTS:** This website should be site providing coding tutorials via a structured curriculum to registered and eligible students. The main reason to build this website is to giving web development mentorship to students. Users or registered students should get a proper web development knowledge from the site without any problem.

**SECURITY REQUIREMENTS:** Security and administration is always a concern. All information on the main website is secured. Only website administrator has access to the dashboard for both blogs and main website to control the features. This project uses PHP as backend which have various layers of security, security requirements have been taken care of.

**EXTENSIBILITY AND MAINTAINABILITY REQUIREMENTS:** There is one standard template used for one look and feel throughout the site. The website can be expanded to accommodate many further modules without making any changes to any existing modules. The web application is created in such a way that the administrator can easily maintain both a server and client sides.

**FEASIBILITY STUDY:** An important outcome of the preliminary investigation is to determine the feasibility of the project. The main aim of the feasibility study activity is to determine whether it would be financially and technically feasible to develop a project. The feasibility study activity involves analysis of the problem and collection of all relevant information relating to product such as the different data items which would be input in the system, the processing required to be carried out on these data, the output required to be produced by the system as well as the various constraints on the behavior of the system. During feasibility study most of the high-level architecture design decision are made.

**OPERATIONAL FEASIBILITY:** The proposed project is beneficial only if it is turned into information systems that will meet the organization’s operating requirements. This test of feasibility asks if the system will work when it is developed and installed. A factor considered for operational feasibility is that the proposed project be beneficial to users because it offers greater support to potential members and pin regards to interface friendliness, easy access and easy in understanding the flow of the system. This project meets operational feasibility as it has information that is being continuously updated.

**TECHNICAL FEASIBILITY:** Technical feasibility involves the software and hardware requirements to develop this website. Hardware is not an issue as it runs on any computer which is connected to the Internet. The proposed technology has to meet all software requirements, by considering factors like, the browser support for PHP along with basic web technologies. This web application uses Laravel framework based on PHP and other applications are also developed using PHP or HTML. All the requirements are successfully meet with open-source technologies.

**ECONOMICAL FEASIBILITY:** Suitable budget, financial benefits, investment vs. profit are big factors for economic feasibility. This web application needs less people than before who can control Website. Thus, any extra man-power to maintain the site is not required. Also, as this project was developed using open-source technology no additional funding is needed for technology. So, this project is perfectly economically feasible.

**LESS RESPONSE TIME:** Because of fast speed of server people can reach this website without delay.

**USER FRIENDLY INTERFACES:** All the interface of this website is easy to understand, clean and user friendly.

## 4.2.3 Designing

Design provides representations of software that can be assessed for quality. Design is the only way to accurately translate a customer's requirements into a finished software product. Software architecture provides abstract representation of overall structure of software. Design has parts, High Level Design (HLD) and Low-Level Design (LLD).

![Diagram

Description automatically 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## 4.2.3.1 High Level Design

High Level Design (HLD) involves decomposing a system into modules and representing the interfaces & invocation relationships among modules. An HLD is referred to as software architecture. [10]

**Work Breakdown Structure (WBS):** Dividing complex projects to simpler and manageable tasks is the process identified as Work Breakdown Structure (WBS). We use top-down approach to show WBS. Here is WBS for codingcenterbd.com.

Diagram

Description automatically generatedFigure 4. : WBS for codingcenterbd.com

**Architecture:** Client-server architecture, architecture of a computer network in which many clients (remote processors) request and receive service from a centralized server (host computer). Client computers provide an interface to allow a computer user to request services of the server and to display the results the server returns.

Servers wait for requests to arrive from clients and then respond to them.

![Diagram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDyRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAaAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNoaWhhYk1haG11ZAAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzEyAACSkgACAAAAAzEyAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 4. : Client-server architecture

Our website codingcenterbd.com’s client connects to sever and get update data from it. Admin and teachers store updated data to server. So, we choose client server architecture. We prefer client server architecture because Centralization of control: Access, resources and integrity of the data are controlled by the dedicated server so that a program or unauthorized client cannot damage the system. This centralization also facilitates task of updating data or other resources.

Scalability: It has facility to increase the capacity of clients and server separately.

## 4.2.3.2 Low Level Design

Low Level Design (LLD) is like detailing the HLD. It defines the actual logic for each and every component of the system. Class diagrams with all the methods and relation between classes comes under LLD. Programs specs are covered under LLD. [10]

**Use Case Diagram:**

Diagram

Description automatically generated

Figure 4. : Use Case Diagram for codingcenterbd.com

This is the use case diagram form codingcenterbd.com. Here we can see that there are three actors [general user(student), teacher and admin]. This diagram also showing that which actor can perform which activity.

**Rich Picture:** A Rich Picture is a way to explore, acknowledge and define a situation and express it through diagrams to create a preliminary mental model. A rich picture helps to open discussion and come to a broad, shared understanding of a situation.

Graphical user interface, application

Description automatically generated

Figure 4. : Rich picture for general user

This is the rich picture for codingcenterbd.com general user. This a big project and group work. User module done by me and showing the rich picture for general user. Rich picture describes that user connect to internet, visit codingcenterbd.com website and can watch course materials as a guest user or get registered or get logged in to get access to everything our website has to offer.

**Entity Relationship Diagram**: An Entity Relationship Diagram (ERD) is a visual representation of different data using conventions that describe how these data are related to each other.

Diagram

Description automatically generated

Figure 4. : ERD for codingcenterbd.com

**Activity Diagram**: Activity diagram is basically a flowchart to represent the flow from one activity to another activity. The activity can be described as an operation of the system.

Diagram

Description automatically generated

Figure 4. : Activity User Diagram for general user.

**Process Flow Diagram**: This is the process diagram for codingcenterbd.com general user. This diagram is created by using BPMN standard.

Here we can see general user pool and activities data flow from database.

Diagram

Description automatically generated

Figure 4. : Process Flow diagram for general user.

## 4.2.4 Implementation

Implementation is basically coding part of the project. For development in this website, we use Laravel framework, Basic JavaScript, Bootstrap, HTML, CSS, PHP, MySQL etc. We use Laravel framework because it is a php based framework and very popular in recent years. Moreover, it has sob functionality that make our tasks very easier. Such functionalities are authentication, routing, sessions, and caching. Laravel aims to make the development process a pleasing one for the developer without sacrificing application functionality.

After setting up Laravel in the pc at first we create a new project using command like this: “*composer create-project --prefer-dist laravel/laravel:^7.0 codingcenterbd*”. After creating project, we have run server and start other things implement. We implement all the features that mention in design part of the project.

![Graphical user interface, text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDyRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAaAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNoaWhhYk1haG11ZAAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzczAACSkgACAAAAAzczAADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 4. : Creating new Laravel project via Composer.

![Graphical user interface, text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDyRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAaAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNoaWhhYk1haG11ZAAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzE3AACSkgACAAAAAzE3AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 4. : Running local server via Artisan CLI.

PHPMyAdmin: phpMyAdmin is a web based open-source tool to control administration of MySQL database. It is a tool popular with most web servers including HostGator. Figure 4.10 displays phpMyAdmin database management page. Most frequently used operations like managing databases, tables, fields, relations, indexes and user’s permissions are supported by the user interface. phpMyAdmin also provide the ability to directly execute any SQL statement. Other features of phpMyAdmin include import and export of data from CSV, SQL, XML, PDF, ISO/IEC 26300 - Open Document Text and Spreadsheet, Word, LATEX and others formats phpMyAdmin can create complex queries using Query-by-example (QBE).

But for this project, we didn’t use phpMyAdmin GUI directly to make any tables. First we had to create a database manually within the software then we had to create the tables via laravel by setting up the environment. For this, we begin my configuring the .env file inside the laravel distribution folder by setting the database name and database type. Then we write the table definition within the migration file inside the laravel distribution. After that we run the artisan command “php artisan migrate” to set the tables within our connected database via the migration definitions.

## 4.2.5 Testing

**Test Plan for codingcenterbd.com**

**Introduction**

4.2.6.1 **Project Leads:** MD Omar Faruq

1. **Project Manager**: MD Omar Faruq
2. **Project Developer**: Shihab Mahmud, Zahid Hasan, Farzana Chaity
3. **Test Manager**: Shihab Mahmud, Zahid Hasan

4.2.6.2 **Test Project Task**

1. **Test Case Design**: Shihab Mahmud
2. **Test Personnel**: Shihab Mahmud

4.2.6.3 **Defect tracking and Reporting system**

* Unit test of each module will be done by developer and the unit test report will be shared with test team.
* The testing will be start middle of the development that means after developing some features/module we start testing till to end of the UAT according to the testing schedule.
* Bug fixing will be start from 15th February 2020 and continue till end of the testing.
* Without fixing the bug of any particular module/feature testing will not be completed.
* Normally 2 cycle of testing will be conducted but it depends on bugs, priority, severity and codingcenterbd team.
* All test cases will be prepared before start of the testing.
* Tech lead review and approved the test cases.
* Test cases may be added during test conducted.
* System test will be performing after full development.
* Test environment, hardware and testable feature/module need to be ready before testing in the test server.
* Test report will be provided after end of the full testing in tracking tool. If any changes are made to the requirements, design and schedule then immediately need to be informing to the test lead.
* Based on the changes the test plan may be changes.

4.2.6.4 **Items to be tested**

All the features which are discuss in the functional requirement will be tested. According to the detail features, description, constraints of the website below functionalities will be scope of the testing-

* Compatibility
* Sign Up
* Login
* User Profile
* Updating profile
* Course Enrollment
* Course material updating
* Admin Panel

4.2.6.5 **Items not to be tested initially**

* Middleware Functionality Will Not Applicable.
* Any requirement that is not specifically mentioned in the section 4.2.6.5 of test plan will be out of scope.
* Network portion will not be applicable
* Based on section: 1.4 will be application for testing as those are out of scope











4.2.6 **Deployment and maintenance**

When the testing is done codingcenterbd would be ready to use for user. Now first of all we have to buy a hosting for this website. We need some space to upload this website. These hosting space will also use for website data store. Then we need to buy domain name. Here we choose .com. Currently our website is not fully live with all the planned functionality because some of features are currently developing. As soon as possible it will be uploaded.

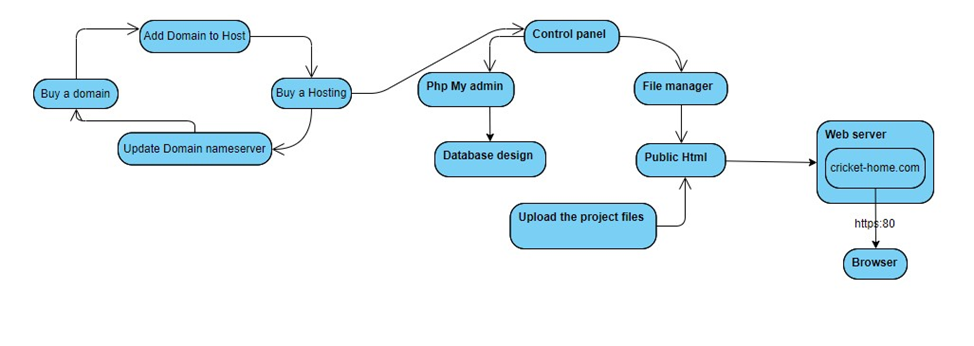


Figure 4. : Deployment of codingcenterbd.com

* After deployment codingcenterbd.com. our team will continue to make improvements and changes to codingcenterbd.com as users want.
* Me and my team members will take feedback from users about this website then we will add features what they want.
* I can also train the people who use this website.
* If any problems occur then me and my team members will fix the problem as soon as possible.

# 5 CONCLUSION AND RECOMMENDATION

## 5.1 Conclusion

During my time working at MYSOFT IT, we build a few websites and the latest in development is called codingcenterbd.com. This website is an ongoing project about providing an online learning platform for young tech enthusiasts in our community who want to do something professionally, maybe potentially build a career in web development and design and related fields.

It has been a great opportunity for me to work as a web developer during internship at the reputed software solution company MYSOFT IT. This two and a half months internship/junior application developer program was like a steppingstone to my carrier in the job market. During internship I learned many important knowledge about IT sector. The internship program helped me to gain important knowledge about how the IT sector shaping in our country. Internship at MYSOFT IT taught me how to handle different client, recent software related technologies, frequently used technologies and best used of this technology. This program gave me a clear idea about professional life as a web developer, what I must face and how to handle those situations. During internship I tried to cover my weakness about web development and tried to become a good web developer.

## 5.2 Recommendation

codingcenterbd.com is developed to automate learning procedure in our current system. It also has some economical value. By making this type of unique website developer can make profit. Another thing is Monetization is essentially the final piece of a systematic look at a business model, but it is not well planned and organized for monetization. Good Monetization model can influence user to do in web app purchase. After developed a Web app it’s recommended to implements good monetization model, which will eventually make a Web app successful and create value for the user and profitable for the developers. And Debug BD is a nice company to learn about software develop related things. If CSC program office want, they can send interns in future but for the company need to select interns who are responsible, have the thirsty to learn new thing and like to welcome challenges. I have some opinions about the company and future interns must follow.

Before joining MYSOFT IT one need to gather more practical knowledge on web development technology like HTML, CSS, JS, PHP, Laravel etc. These will be very helpful in return.

5.3 Future Work

My team and I have some future plan for cricket-home.com. These are given below:

1. Adding more detailed Image and Video gallery for every course.
2. Student blogging system.
3. Student alumni forum.
4. Robust payment gateway.
5. Report.
6. Latest technology news in the related field.
7. Weather details on the website.
8. Timer.
9. Develop mobile version of codingcenterbd.com (Android and IOS App).

And a few more down the road, hopefully.

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