

American International University-Bangladesh (AIUB)  
Department of Computer Science  
Faculty of Science &Technology (FST)  
Summer 21 22

Section: C  
Software Quality Assurance and Testing

**EDUCARE MANAGEMENT SYSTEM**

A Report submitted

By

|  |  |  |
| --- | --- | --- |
| SN | Student Name | Student ID |
| 1 | Khan, Uchsas | 17-35668-3 |
| 2 | Dip, Rahul Joarder | 18-38082-2 |
| 3 | Mohammodullah, Emran | 19-41204-2 |

Under the supervision of

Md. Hasibul Hasan

Assistant Professor

#### 

Software Test Plan

for

< **EDUCARE MANAGEMENT SYSTEM**>

Version 1.0 approved

Prepared by <

Dip,Rahul Joarder

Mohammodullah, Emran

Khan,Uchsas

>

<Educare>

<20/09/2022>

**Checked By Industry Personnel**

Name: Rahul Joarder

Designation: PM

Company: Educare

Sign: Rahul

Date: 20/09/2022

Table of Contents

[Revision History 4](#_Toc111394987)

[1.TEST PLAN IDENTIFIER: EDUCARE\_01 4](#_Toc111394988)

[2.REFERENCES 4](#_Toc111394989)

[3.INTRODUCTION 5](#_Toc111394990)

[Background to the Problem 5](#_Toc111394991)

[4.REQUEIREMNT SPECIFICATION 7](#_Toc111394992)

[4.1System Features 7](#_Toc111394993)

[4.2System Quality Attributes 10](#_Toc111394994)

[4.3System Interface 11](#_Toc111394995)

[4.4Project Requirements 13](#_Toc111394996)

[5.FEATURES NOT TO BE TESTED 15](#_Toc111394997)

[6.TESTING APPROACH 15](#_Toc111394998)

[6.1Testing Levels 15](#_Toc111394999)

[6.2Test Tools 17](#_Toc111395000)

[6.3Meetings 17](#_Toc111395001)

[7.TEST CASES/TEST ITEMS 18](#_Toc111395002)

[8. ITEM PASS/FAIL CRITERIA 22](#_Toc111395003)

[9.TEST DELIVERABLES 25](#_Toc111395004)

[10.STAFFING AND TRAINING NEEDS 26](#_Toc111395005)

[11.RESPONSIBILITIES 26](#_Toc111395006)

[12.TESTING SCHEDULE 28](#_Toc111395007)

[13.PLANNING RISKS AND CONTINGENCIES 29](#_Toc111395008)

[14.APROVALS 29](#_Toc111395009)

# Revision History

|  |  |  |  |
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| Revision | Date | Updated by | Update Comments |
| 0.1 | 2022.01.04 | Khan,Ucchash | First Draft |
| 0.2 | 2022.03.19 | Mohammad Emran | Second Draft |
| 0.3 | 2022.05.18 | Rahul Joarder | Third Draft |
| 0.4 | 2022.01.04 | Khan,Ucchash | Fourth Draft |
| 0.5 | 2022.03.19 | Mohammad Emran | Fifth Draft |
| 0.6 | 2022.05.18 | Rahul Joarder | Final Draft |

# 1.TEST PLAN IDENTIFIER: EDUCARE\_01

# 2.REFERENCES

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# 3.INTRODUCTION

## Background to the Problem

In this age of technological advancement, the demand for online services have increased to an extent which was never seen before. Moreover, the COVID-19 pandemic has clearly shown the advantages of moving operations online. These advantages are also applicable to the Educare system of Bangladesh. Educare refers to the practice of taking care of children. It simply means to educate and to care. While parents or guardians are off to work or busy running errands, they need to place their trust in someone to look after their little ones. And believe it or not, a lot goes into looking after children than supervising them while they watch cartoons. Looking after children is a huge responsibility, one that not everyone is equipped to do. Not everyone has these skills, but with the right course and a genuine interest you could easily pick them up. There are a lot of elements you will learn that contribute to properly taking care of children. This includes food and nutrition, educational psychology, child health and more.Not all heroes wear capes. In the eyes of little ones, you can either be the hero or the villain. So choose your narrative. Be the one that takes care of them when they fall from the jungle gym, scrape their knees, or when they are being dropped off by their parents. Being the hero also sometimes entails wiping snotty noses and dirty faces. A career in educare is exciting and rewarding. But before you can reap the benefits, you need to make an important decision – where to study? You can have quite a few options when it comes to studying in Bangladesh, but not every institution offers educare.

Technikons – Colleges and Technikons used to be the only places that offered educare courses. But over the years more and more colleges have been established and now offer these courses. The only problem is that students often have to relocate or seats are limited. Distance Learning – Make studying a little more convenient. Why relocate to another city to enrol for a course when you can simply learn from home? With distance learning you can cut down on costs by eliminating travel and relocation. There are many different distance learning courses available, but there are a few things you need to consider before making your decision. When choosing a college for educare, you need to ask yourself what it is exactly you need or want from a course or college. Most colleges that aren’t owned by the government are businesses. They therefore need to deliver a service to their students. You can read reviews and testimonials online.

College accreditation

Student and academic support

Response rate

Past students Solution to the Problem

This project report showcases the feasibility, business possibilities, implementation details and estimations for a web-based application named “Educare”. This application acts as a digital aggregation platform for the teachers and student related business owners of Bangladesh. The report starts with the background analysis and feasibility of creating such a platform. Then the Project Specifications, Software Requirement Specifications, Software Design Description, Software Configuration Management and Software Verification and Validation are discussed sequentially. This report also discusses the Software Development Process Model which will be used and also provides with the reasoning for selection. The test cases for the purpose of Software Testing are also discussed in this report. Possible budget estimation, possible risks and the required time calculations are also included in the report. There are also some screenshots of the UI elements as Illustrative prototype.

In this section the business opportunities and scope of the project will be discussed. First, we set the goals and future prospects of the project, which can provide us with an outline of the future steps to be taken. Next, we will discuss the collected user data and analyze the market values of the features which are planned to be implemented. The market analysis will help in the understanding of the priorities of the features and feature priorities can be set accordingly. Then, the competitive position analysis will provide an idea about the position of this project in the industry and what gives us a business advantage over other companies. In the success factor section, the features which will decide the success of our project and the prospect of the people associated with the platform will be discussed. Finally, the business requirement and the overall business model of the project will be discussed.

**Vision**

The vision of “Educare” is to be established as a trusted education system provider for the students of Bangladesh.

**Mission**

To develop the child spiritually so that he/she will flourish academically, morally, socially, emotionally and mentally.

**Goals**

1.Educare is aimed at building and raising a generation of children that are independent and skillful by encouraging and promoting entrepreneurship.

2.EPS seeks to educate and care for all children

3.Educare seeks to serve the total needs of all children in preparation for the future.

4.EPS seeks to build a solid educational foundation for the total Development of the child.

5.Educare seeks to raise up all the children in the fear of God.

6.We seek to foster relationships where there is trust, respect, understanding, support and love for one another.

7.We also seek to develop capacity in both pupils and staff members for effective service to God and humanity.

8.Educare seeks to provide a variety of curricular, extra-curricular and co-curricular activities that make learning exciting.

9.Educare seeks to widen the scope and horizon of her pupils by Observing and re-enacting historical days and events.

**Success Factors**

* A well-established user-base, which is already available.
* Integration of district-wise education destinations’ information.
* Availability of different education related services like exams, books etc.
* Easy to create online business presence for both small and large educare business owners

Easy to use User interface.

# 4.REQUEIREMNT SPECIFICATION

## 4.1System Features

1. **App login and Signup**

**Functional Requirements:**

* 1. The application will have three types of users (Admin, Faculty and Students)
  2. Users will be able to login to the application with valid email and password. The user type will be determined automatically.
  3. If the email or password is incorrect, the user will be prompted to try again.
  4. Users will be prompted to register a new account in the home page and the sign in page.
  5. When a user will register, an email will be sent to their email for account verification and confirmation.
  6. There will be a password recovery system through email.
  7. During registration, Business owners need to provide their E-Trade License and E-TIN number as well as a copy of the picture of the Trade license.
  8. Users can use the “remember me” functionality for faster login procedures.
  9. Tourists will be prompted for premium subscription during registration.

**Priority level:** High

**Precondition(s):** User email and password needs to be valid

**Cross-reference:** None

1. **Students Features**

**Functional requirements**

* 1. Students should be able to browse this website.
  2. Tourists should be able to select courses.
  3. Students should be able to buy books.
  4. Students should be able to subscribe to premium membership
  5. Students should be able to select payment methods.

**Priority level:** High

**Precondition(s):** User must be logged in

**Cross-reference: <**Billing and Payment**>**

1. **Faculty Features**

**Functional requirements**

* 1. Faculty can add students.
  2. Faculty will be able to add details.
  3. Faculty should be able to choose payment methods.
  4. Faculty will be able to remove application.

**Priority level:** High

**Precondition(s):** User must be logged in

**Cross-reference: <**Billing and Payment**>**

1. **Administrative Team Member Features**

**Functional requirements**

* 1. Admins will be able to check user information if necessary.
  2. Admins will be able to verify the validity and license of the businesses of the business owners.
  3. Admins will be able to verify the validity and license of the businesses of the business owners.
  4. Admin s will be able to look into the issues sent as support tickets and try to solve the problems with coordination with the support team.

**Priority level:** High

**Precondition(s):** User must be logged in

**Cross-reference: <**System Features**>**

1. **Destination and Search Functionality**

**Functional requirements**

* 1. Students will be suggested the most popular courses.
  2. Students and teacher will be able to search by course name and books name.
  3. Students can add courses as their favorites.

**Priority level:** High

**Precondition(s):** None

**Cross-reference: <**System Features**>**

1. **Buy Functionality**

**Functional requirements**

* 1. Students should be able to select books and buy.
  2. The admin running the booked business will be notified.
  3. Booking options can be sorted or constrained by the education based on cost.
  4. Students should be able to cancel their courses.
  5. No advanced payment is necessary for booking.

**Priority level:** High

**Precondition(s):** User must be logged in

**Cross-reference: <**System Features**>,<**Billing and Payment**><**

1. **System Features**

**Functional requirements**

* 1. The application system will analyze user data and show recommended education based on the information.
  2. System should ensure that the offers shown are relevant to the students.
  3. The system will provide a faster response by caching frequently used data.
  4. System should be able to show push notifications about buying to the business owners.
  5. Systems should be able to show the last courses have you done to the students.
  6. System should be able to keep track of the payment status of the businesses and take actions accordingly.
  7. System will offer regular discounts to subscribed members

**Priority level:** High

**Precondition(s):** Some functionalities will require subscription

**Cross-reference: <**Billing and Payment**>**

1. **Billing and Payment Functionality**

**Functional requirements**

* 1. Tourists and business owners should be able to add payment methods (Credit card/ cash/ bkash).
  2. The system will be updating payment status in real time.
  3. Confirmation email for payments will be sent with a receipt.

**Priority level:** High

**Precondition(s):** User must be logged in

**Cross-reference:** None

1. **Sign out Functionality**

**Functional requirements**

* 1. Users should be able to sign out whenever they want.
  2. Users should be able to sign out of all devices/browsers in which they are logged in

**Priority level:** High

**Precondition(s):** User must be logged in

**Cross-reference:** None

.

## 4.2System Quality Attributes

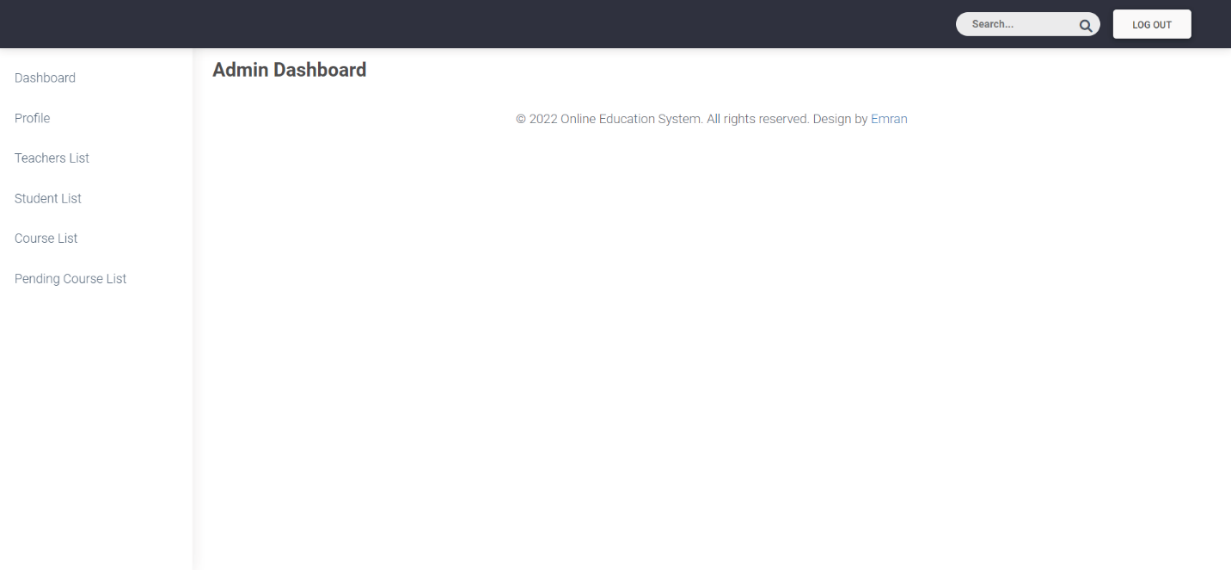
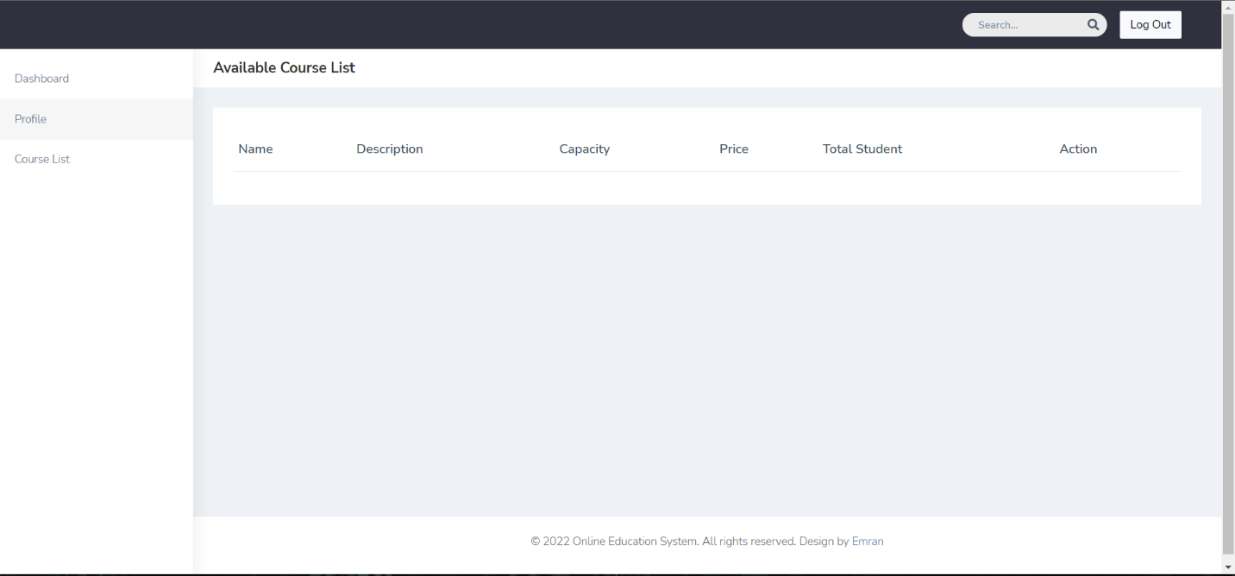
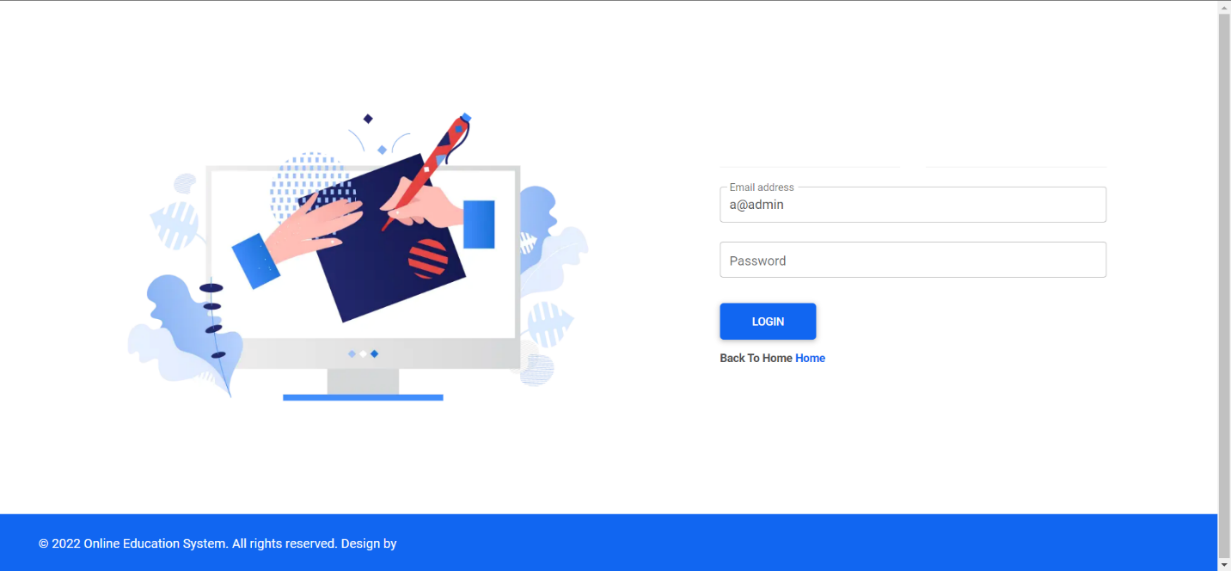
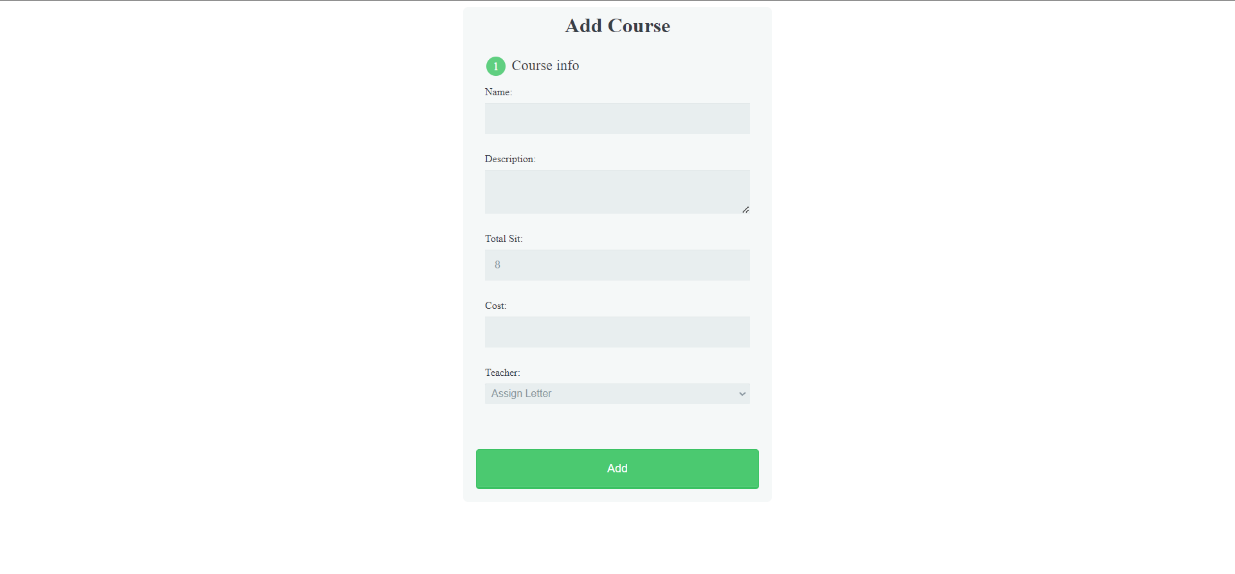
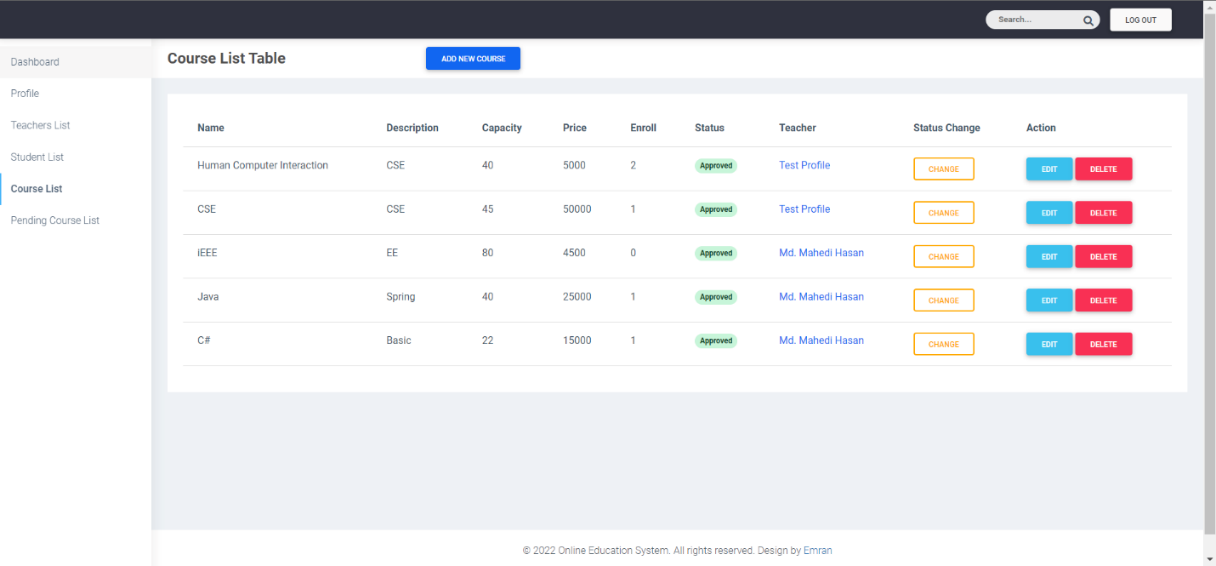
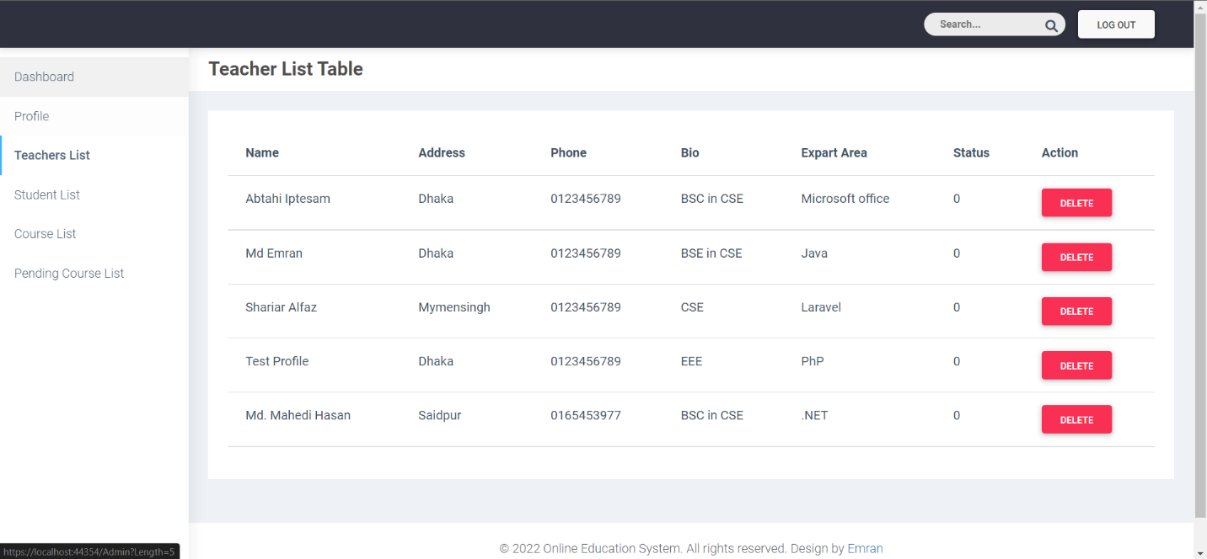
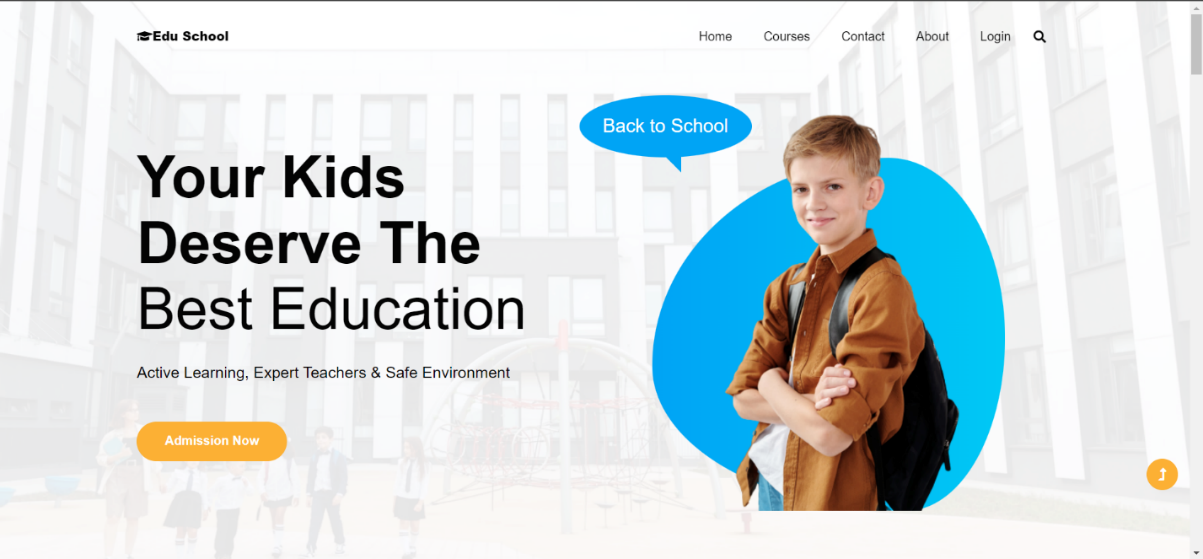
1.Usability: System must have a good looking user friendly interface.

2. Flexibility: Our system should be so flexible that whenever we want to make changes in it very easily it can be done.

3. Robustness: When a student wants to take any course sends an appointment to a faculty, his /her profile will pop up the screen and remain until the faculty accepts.

4.Mentality: anytime updateable.

## 4.3System Interface



## 4.4Project Requirements

In our project we will use The Constructive Cost Model which is an algorithmic software cost

estimation model.

In our project there are 5000 source lines of codes.

Organic co- efficient effort factor is 2.4, P (project complexity which is 1.05) and T for organic

is 0.38. These values are constant.

1) EFFORT = (person-months needed for project (labor working hours))

EFFORT = Coefficient\*(SLOC/1000) ^P

= 2.4\* (5000/1000) ^1.05

=13 labor working hours

So, we will need 13 labor working hours.

2) DEVELOPMENT TIME = 2.50\*(EFFORT) ^T

= 2.50\*(13) ^0.38

= 6.5 months

Total development time is 6 month 15 days.

3) Required Number of People = EFFORT/DEVELOPMENT TIME

= 13/6.5

= 2

Total 2 people need for this project.

4)

BUDGET =>

Description Cost Assumptions

Site launch(hosting) 10,000 BDT

Maintenance (1 year) 25,000 BDT

Developers 1,00,000 BDT

Grand Total 1,35,000 BDT

So from the above calculation

Total Budget is = 1, 35,000 BDT

# 5.FEATURES NOT TO BE TESTED

The following is a list of the areas that will not be specifically addressed. All testing in these areas will be indirect as a result of other testing efforts. For example:

o PC-based spreadsheet analysis applications using Reassigned Sales data. Because these applications are completely under the control of the customer and are outside the scope of this project. The necessary database format information will be provided to the customers to allow them to extract data. Testing of their applications is the responsibility of the application maintainer/developer.

# 6.TESTING APPROACH

## 6.1Testing Levels

* The testing for the Educare Management System project will consist of Unit, System/Integration (combined) and Acceptance test levels. It is hoped that there will be at least one full time independent test person for system/integration testing. However, with the budget constraints and timeline established; most testing will be done by the test manager with the development teams’ participation.
* UNIT Testing: For system login page =>

[Test]

public void LoginAuth()

{

  LoginMatch login = new LoginMatch();

     var service = new AuthServices();

     var uname="Email";

    var pass = "Password";

     login.Login(uname, pass);

     Assert.IsTrue(service.login(uname, pass));

     Assert.IsTrue(DataAccessFactory.GetAuthDataAccess().Auth(uname, pass));

}

This unit testing done by developer. Simple test case for this login page:

1. Verify if a user will be able to login with a valid username and valid password.
2. Verify if a user cannot login with a valid username and an invalid password.
3. Verify the login page for both when the field is blank and Submit button is clicked.
4. Verify the ‘Forgot Password’ functionality.
5. Verify the messages for invalid login.
6. Verify if a user cannot enter the characters more than the specified range in each field (Username and Password).
7. Verify if a user cannot enter the characters more than the specified range in each field (Username and Password).

* SYSTEM/INTEGRATION Testing: Combine 2 or more model to test. Here we can assume Teacher’s signup, Login and Teachers Dashboard page.

Signup => Simple signup test case

* 1. To verify that all required text fields have a valid placeholder.
  2. To verify that all required fields have a red \* mark.
  3. To verify tab key functionality on the sign-up page.
  4. To verify the First name field without any data.
  5. To verify the Last name field without any data.
  6. To verify alpha characters allow in the Mobile number field.
  7. To verify the Mobile number field without any data.
  8. To verify validation message for incorrect mobile number
  9. To verify email id text without @ Symbol
  10. To verify Password field with only enter numbers
  11. To verify Password field with only enter special characters
  12. To verify the sign-up button without filling up any data on the sign-up page.
  13. To verify the sign-up button by entering the key and click the event.
  14. To verify user gets a successful signup message or not.

After signup, teacher login with valid data and enter dashboard successfully.

|  |  |  |
| --- | --- | --- |
|  |  |  |

For signup login, automation testing will help to identify more bugs and ensure the software is bug-free.

Automation like the Selenium test will help this project identify the bug and prevent bugs.

* ACCEPTANCE Testing:

After accomplished a project, last testing part will be tested that is acceptance tasting. End user or customer from customer side and tester and business analyst from QA side both testing the project for clearance the product.

## 6.2Test Tools

The only test tools to be used are Selenium web driver with JAVA.

* Selenium is a free (open source) automated testing framework used to validate web applications across different browsers and platforms. Our project is web based so using selenium tools in this project will help to identify bugs and prevent bugs.

## 6.3Meetings

The test team will meet once every two weeks to evaluate progress to date and to identify error trends and problems as early as possible. The test team leader will meet with development and the project manager once every two weeks as well.

# 7.TEST CASES/TEST ITEMS

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Project Name: Educare Management System | | | Test Designed by: Uccash Khan | | |
| Test Case ID: FR\_1 | | | Test Designed date: 18/06/2022 | | |
| Test Priority (Low, Medium, High): Medium | | | Test Executed by: Emran Hossain | | |
| Module Name: Login Session | | | Test Execution date: 18/08/2022 | | |
| Test Title: verify login with valid username and password | | |  | | |
| Description: Test website login page | | |  | | |
| Precondition (If any): User must have valid username and password | | | | | |
| Test Id | Test Steps | Test Data | | Expected Results | Actual Results | | Status (Pass/Fail) |
| TC\_001 | Go to the website  www.educare.edu | Needs to go this website  www.educare.edu | | The website http:// www.educare.edu should contain the major items –Home, About, information,  Administration, Faculty, Offices, Booking, Contact, Webmail, Login | The website http://www.vromon.com should contain the major items –Home, About, information,  Administration, Faculty, Offices, Booking, Contact, Webmail, Login | | Pass |
| TC\_002 | Login page | The mouse pointer is put over ‘Login’ | | When the mouse pointer is put over ‘Login’, a drop-down list opens with the items –AS Admin, As Faculty, As student. | When the mouse pointer is put over ‘Login’, a drop-down list opens with the items –AS Admin, As Faculty, As student. | | Pass |
| TC\_003 | Admin Page | The mouse pointer is put over ‘As Admin’ | | When the mouse pointer is put over ‘As Admin’, a drop-down list opens with the items – User name, Password | When the mouse pointer is put over ‘As Admin’, a drop-down list opens with the items – User name, Password | | Pass |
| TC\_004 | Faculty page | The mouse pointer is put over ‘As Faculty’ | | When the mouse pointer is put over ‘As Faculty’, a drop-down list opens with the items – User name, Password | When the mouse pointer is put over ‘As Faculty’, a drop-down list opens with the items – User name, Password | | Pass |
| TC\_005 | Student page | The mouse pointer is put over ‘As Student’ | | When the mouse pointer is put over ‘As Student’, a drop-down list opens with the items – User name Password | When the mouse pointer is put over ‘As Student’, a drop-down list opens with the items – User name, Password | | Pass |
| TC\_006 | Admin Page | Username: Hossain20@gmail.com  Password: Hossain12345 | | When the mouse pointer is put over ‘Username and password’, a drop-down list opens with the items – faculty details, student details, student offers, course details, Logout | When the mouse pointer is put over ‘Username and password’, a drop-down list opens with the items – faculty details, student details, student offers, course details, Logout | | Pass |
| TC\_007 | Faculty page | Username: Hasan20@gmail.com  Password: Hasan12345@ | | When the mouse pointer is put over ‘Username and password’, a drop-down list opens with the items –student details, student offers, course details, Logout | When the mouse pointer is put over ‘Username and password’, a drop-down list opens with the items –student details, student offers, course details, Logout | | Pass |
| TC\_008 | Student page | Username: Raj20@gmail.com  Password:  Raj12345@ | | When the mouse pointer is put over ‘Username and password’, a drop-down list opens with the items –course details, student offers,  Booking and Payment, Logout | When the mouse pointer is put over ‘Username and password’, a drop-down list opens with the items –course details, student offers,  Booking and Payment, Logout | | Pass |
| TC\_009 | Admin Page | the mouse pointer is put over ‘Faculty details’ | | When the mouse pointer is put over ‘Faculty details’, a drop-down list opens with all of the Faculty list, Add, Update, Delete, Reset | When the mouse pointer is put over ‘ Faculty details’, a drop-down list opens with all of the Faculty list, Add, Update, Delete, Reset | | Pass |
| TC\_010 | Admin Page | the mouse pointer is put over ‘student details’ | | When the mouse pointer is put over ‘student details’, a drop-down list opens with all of the tourist list, Add, Update, Delete, Reset | When the mouse pointer is put over ‘student details’, a drop-down list opens with all of the tourist list, Add, Update, Delete, Reset | | Pass |
| TC\_011 | Admin Page | the mouse pointer is put over ‘students offers’ | | When the mouse pointer is put over ‘students offers’, a drop-down list opens with all of the offer list, Add, Update, Delete, Reset | When the mouse pointer is put over ‘students offers’, a drop-down list opens with all of the offer list, Add, Update, Delete, Reset | | Pass |
| TC\_012 | Admin Page | the mouse pointer is put over ‘course details’ | | When the mouse pointer is put over ‘course details’’, a drop-down list opens with all of the course details’, Add, Update, Delete, Reset | When the mouse pointer is put over ‘course details’, a drop-down list opens with all of the course details’, Add, Update, Delete, Reset | | Pass |
| TC\_013 | Faculty Page | the mouse pointer is put over ‘student details’ | | When the mouse pointer is put over ‘student details’, a drop-down list opens with all of the tourist list, Add, Update, Delete, Reset | When the mouse pointer is put over ‘student details’, a drop-down list opens with all of the student list, Add, Update, Delete, Reset | | Pass |
| TC\_014 | Faculty Page | the mouse pointer is put over ‘student offers’ | | When the mouse pointer is put over ‘student offers’, a drop-down list opens with all of the offer list, Add, Update, Delete, Reset | When the mouse pointer is put over ‘student offers’, a drop-down list opens with all of the offer list, Add, Update, Delete, Reset | | Pass |
| TC\_015 | Faculty Page | the mouse pointer is put over ‘course details’ | | When the mouse pointer is put over ‘course details’, a drop-down list opens with all of the course details, Add, Update, Delete, Reset | When the mouse pointer is put over ‘course details’, a drop-down list opens with all of the course details, Add, Update, Delete, Reset | | Pass |
| TC\_016 | Student Page | the mouse pointer is put over ‘course details’ | | When the mouse pointer is put over ‘course details’, a drop-down list opens with all of the course list, Add, Update, Delete, Reset | When the mouse pointer is put over ‘course details’, a drop-down list opens with all of the course list, Add, Update, Delete, Reset | | Pass |
| TC\_017 | Student Page | the mouse pointer is put over ‘student offers’ | | When the mouse pointer is put over ‘student offers’, a drop-down list opens with all of the offer list. | When the mouse pointer is put over ‘student offers’, a drop-down list opens with all of the offer list. | | Pass |
| TC\_018 | Student Page | the mouse pointer is put over ‘Upcoming course details’ | | When the mouse pointer is put over ‘Upcoming course details’, a drop-down list opens with all of the upcoming course details | When the mouse pointer is put over ‘Upcoming course details’, a drop-down list opens with all of the upcoming course details | | Pass |
| TC\_019 | Student Page | the mouse pointer is put over ‘Payment’ | | When the mouse pointer is put over ‘Payment’, a drop-down list opens with all of the payment list, Bkash, Rocket, Nagod. | When the mouse pointer is put over ‘Payment’, a drop-down list opens with all of the payment list, Bkash, Rocket | | Failed |
| TC\_020 | Student Page | the mouse pointer is put over ‘Logout’ | | When the mouse pointer is put over ‘Logout’, than go back to the home page | When the mouse pointer is put over ‘Logout’, than go back to the home page | | pass |

# 8. ITEM PASS/FAIL CRITERIA

|  |  |
| --- | --- |
| Test id | Status (Pass/Fail) |
| TC\_001 | Pass |
| TC\_002 | Pass |
| TC\_003 | Pass |
| TC\_004 | Pass |
| TC\_005 | Pass |
| TC\_006 | Pass |
| TC\_007 | Pass |
| TC\_008 | Pass |
| TC\_009 | Pass |
| TC\_010 | Pass |
| TC\_011 | Pass |
| TC\_012 | Pass |
| TC\_013 | Pass |
| TC\_014 | Pass |
| TC\_015 | Pass |
| TC\_016 | Pass |
| TC\_017 | Pass |
| TC\_018 | Pass |
| TC\_019 | Failed |
| TC\_020 | pass |

If the test step is executed and the predicted result is functioning 95% certainly without any essential defects, then that test step may be taken into consideration to have passed. If the test step could not be performed and the predicted result did not occur, or cannot be shown from the record, then that test step should be considered to have failed and that requirement not verified. All of the errors must be prevented and checked successfully for the software program to pass the testing.

# 9.TEST DELIVERABLES

1. Acceptance test plan

2. System test plan

3. Unit test plans

4. Test cases and test data

5. Screen prototypes

6. Exit Report

7. Defect reports and summaries

8. Summary of all reports

9. Daily Test Execution Report

# 10.STAFFING AND TRAINING NEEDS

To build and supply a challenge successfully professional employees and groups are important. In this project to finish it successfully a group of professional employees is needed. Because with professional employees and staff, the project may be finished with finances and time otherwise lack of professional employees can hamper the delivery of the project on time. So, it must be tested well that the staff and employees are worth enough for the project. To enhance and ensure that various training classes based on skills can be arranged. We have a group of workers which includes the Project manager, senior test engineer (test lead), junior test engineer, testing manager, database analyst and other staff.

# 11.RESPONSIBILITIES

|  |  |
| --- | --- |
| Role | Specific Responsibilities |
| Test Manager | Provides management oversight.  Responsibilities include:  1. planning and logistics  2. agree mission  3. identify motivators  4. acquire appropriate resources  5. present management reporting  6. advocate the interests of test |
| Project Manager | 1. Supervise the test plan  2. Weekly update test strategy based on  new test requirements and cases.  3. Identify test problems from datasheet to  obtain solution.  4. To check if the team has all the  necessary resources to execute the testing  activities.  5. To check if testing is going hand in hand  with the software development in all phases  6. Required Interactions with customers.  7. All responsibilities of test planning. |
| Developer Team | The developer teams are the ones in charge of writing the code and developing the software products. Apart from coding, they are responsible for sending regular updates to the Project Manager.  1. Develop the features laid out in the Sprint.  2. Update the status of the software project to the Project Manager or Tech Lead.  3. Estimate the amount of time needed to deliver a given task |
| Test Team | Implements and executes the tests. Responsibilities include:  1.implement tests and test suites  2. execute test suites  3. log results  4. analyze and recover from test failures  5. document incidents |

Figure: Responsibilities

# 12.TESTING SCHEDULE

The tool used for making this chart is creative.

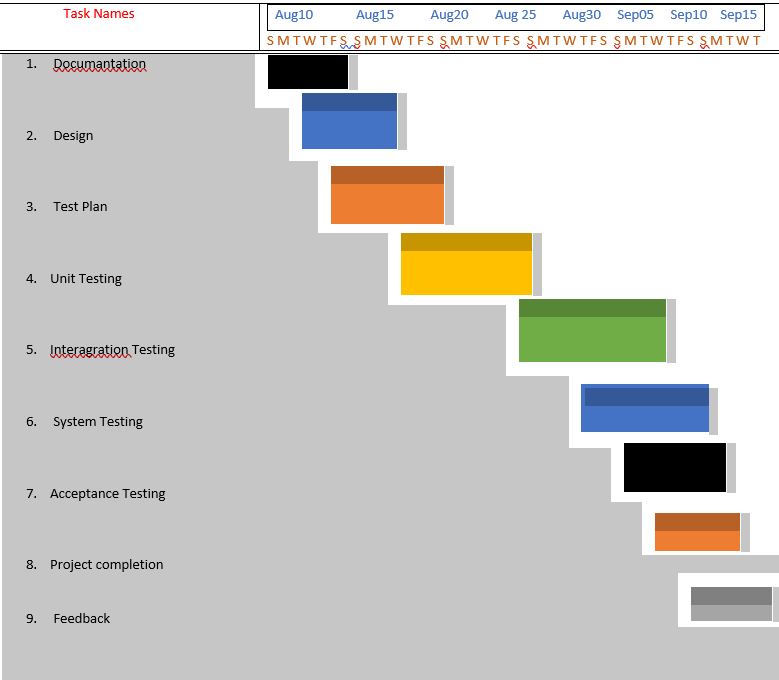


Figure: Testing Schedule

# 13.PLANNING RISKS AND CONTINGENCIES

At First, Cannot deliver on time. For this reason, Daily tests the development and monitoring of the staff’s activity by the task manager. Secondly, Low quality. So, Work has to be accomplished in the right way and timely. Track this and not do the work faster mode. On the other hand, Programmers can not develop the system properly. So, we have to advise them through formal and casual meetings. Guide them on how to do it on time and monitor them. Any delay in deliverables can delay the project delivery time. For this reason, follow all deliverables step by step to finish and monitor every group's work.

# 14.APROVALS

|  |  |
| --- | --- |
| Project Sponsor | Md. Hasibul Hasan |
| Project manager | Dip, Rahul Joarder |
| Test manager | Dip, Rahul Joarder |
| Developer Team | Mohammodullah, Emran |
| Testing team | Khan,Uchsas |