

**‘IQ Test bd’: A distributed learning platform
BY**

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of
Bachelor of Science in Computer Science and Engineering

Supervised By

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**DAFFODIL INTERNATIONAL UNIVERSITY
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APPROVAL

This Project/internship titled “‘**IQ Test bd**’: **A distributed learning platform**”, submitted by Md. Arifuzzaman, ID No: 112-15-1415 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 3rd June 2021.

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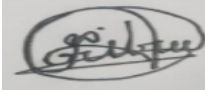
We hereby declare that, this research project has been done by us under the supervision of **Dr. Sheak Rashed Haider Noori, Associate Professor and Associate Head, Department of CSE, Daffodil International University.** We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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We would like to express our heartiest gratitude to supervisor, co-supervisor and Head, Department of CSE, for his kind help to finish our project and also to other faculty members and the staff of CSE department of Daffodil International University.

Finally, we must confess with due respect the constant support and patience of our parents.

ABSTRACT

This project titled, " IQ test bd " is a very easy learning platform for the students who are interested in the defense sector. This is going to help students in taking good preparation at a very low cost and also, they can use this system from any place and any time. Very well-maintained exam and solution system with highly experienced instructor will create a friendly and effective environment can make the students more than ready for the defense sector. This application has been developed by a content management system using HTML, CSS, Java script, Bootstrap4 and written in Laravel (CodeIgniter Framework MVC Pattern) and MYSQL Database.

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CHAPTER 1

INTRODUCTION

1.1 Introduction

Defence force plays an important role for any country. We cannot imagine a country without the defence force. Like other countries, Bangladesh has defence force. There are lots of people who are interested in working in defence. A big issue is that, in Bangladesh, there is no online learning or online defence exam platform to join defence force. So, in this project, we create a platform where anyone can take preparation and give defence exams. On this online platform, there are many coaching centers and institutions that help new students to study and take exams for the defence force and join in the platform if anyone wants related instructors. Through the project we will be able to add an experienced Coaching Center for Experienced Institutions and Experience Instructors to make the learning process and exams more efficient and remarkable.

1.2 Motivation

As many students are interested in joining the defence sector, they have to take a related exam to join the defence. To give a related exam, students have to take a good preparation for that they need a good coaching center. The cost is sometimes unbearable for some students sometimes. After a survey we have seen, approximations are 32k staying cost and the cost of coaching. This amount of cost is not possible for many students in Bangladesh to bear, for which the hope of a student to join the defence force is lost. But there are so many students who have enough potential to work in the defence force. So for that we think of an online distributor learning platform so that everyone can easily get their dreams come true with a little effort and we are doing this project with this goal in mind.

1.3 Objectives

The main objective of this project is,

1. Help to take good preparation at low cost so that talented students can easily be selected for defence exams
2. Arranging for the preparation of the defence from any place at all time.
3. Students are given exams as well as a good solution by analyzing their answer scripts so that they understand where their mistakes were made.
4. Through a good coaching center for those who teaches students for the defence exam.
5. With an experienced instructor arranging a very good preparation so that students can get a good preparation for them

1.4 Report Layout

Chapter 1: Introduction

This chapter gives brief of the project and the important theoretical concepts behind our project and also discusses our project motivation, objectives and expected outcomes.

Chapter 2: Background

In this chapter we discussed about related works of our system and also the features and also discussed comparative studies and scope of the problem.

Chapter 3: Requirement Specification

Here we discuss about the business process modeling, requirements collection and analysis, use case modeling, logical data model and also discuss about the design requirements.

Chapter 4: Design Specification

In this chapter we discuss about the design pattern of our project such as front-end design, back-end design, interaction design & UX and also discuss implementation requirements.

Chapter 5: Implementation and Testing

This chapter is all about implementation of various things such as database, front-end design, interactions. Here we also describe testing implementation, test results and reports of this project.

Chapter 6: Conclusion and Future Scope

Finally, here we discuss about the conclusion and about the future scope of our system.

CHAPTER 2

BACKGROUND

2.1 Introduction

IQ test bd is a distributed learning platform for defence sector. The benefits of IQ test bd is general student are participated in exam online. Any experience instructor easily joins with us and instructor provide all answer explanation which is really helpful and more effective for student. General student enrolls into a package and prepare for exam and after attend exam student will show their performance and answer explanation. Here we used as server-side language and HTML5, CSS, JAVASCRIPT as the design object. We also used MYSQL, APACHE database.

2.2 Related Works

We saw some related website. Fig.2.2.1 shows the homepage of related website.

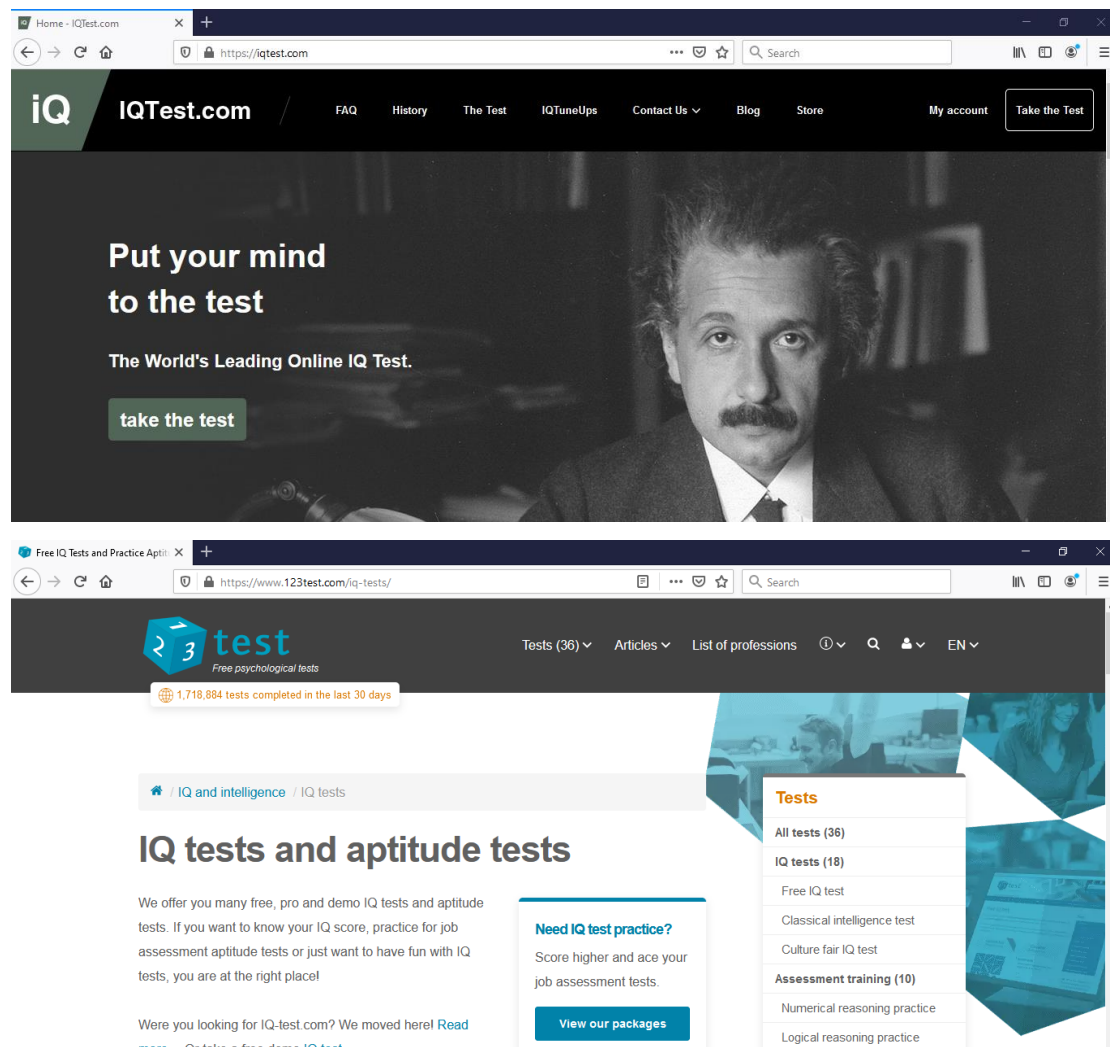


Fig.2.2.1. Some related website

2.2.1 Features

- Some preset IQ tests
- Some blog
- Some free IQ test available
- Because of offline version it is not hackable

2.2.1 Problems

- Only some IQ test are available
- All IQ tests are preset and no instructor are available
- No answer explanation is given
- Actually, free IQ test are effective and less free IQ test.
- Payment method are not user friendly for Bangladesh perspective
- No related books are available

2.3 Comparative Studies

As we can see, the present system has some major problems. Here our system will solve all the problems.

2.3.1 Our features

- We managed experience instruction
- We provide more set of IQ test
- We provide all answer explanation
- We provide mentor support
- We provide freer IQ test
- Any student buys a package and enjoy more IQ test
- All the question and course designed based on Bangladesh perspective
- Payment method are very simple in our system
- Any experience joins with us easily
- Managed some free books and resource

2.4 Scope of the Problems

- No experiences
- Internet problem

- Transaction error
- Different time errors during data entry

2.5 Challenges

- Ensuring the internet connection.
- For Bangladesh perceptively many students cannot believe an online platform.
- Payment transaction issue.
- Handle payment deadlock situations.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modelling

Admin can enter in the system by login. Some process like manage book, manage category, set model and set question model can be done by Admin. In the system instructor can register for the connected with us. Here admin can approve instructor by this eligibility. If any user needed to update his information, admin can update user information. And he can also create report with a particular time and date.

Instructors can enter in the system by login and he can see package information and any instructor can add a package, add a model and add a question model. And he can also create package sold report with a particular time and date.

User can enter by completing the registration process and login. Then he can find a package and buy a package. after that he participate in exam and after the ending time student can see the result.

The system of requirements specification for software is fateful since it plays a role on the acceptability and usefulness of the developed software.

3.2 Requirements Collection and Analysis

Here we give software requirements that we used for developing our project.

3.2.1 Front-end

- HTML
- BOOTSTRAP
- CSS
- JQUERY
- AJAX

3.2.2 Back-end

- Laravel as server-side language
- MySQL server for managing server-side action

3.2.3 Analysis

- Every student and instructor have their own login ID and password. They also have their own profile
- Without login id and password student cannot do anything
- Without admin approval instructor cannot upload a question
- Admin will see the report
- Admin will remove a student or an instructor

3.3 Use Case Diagram

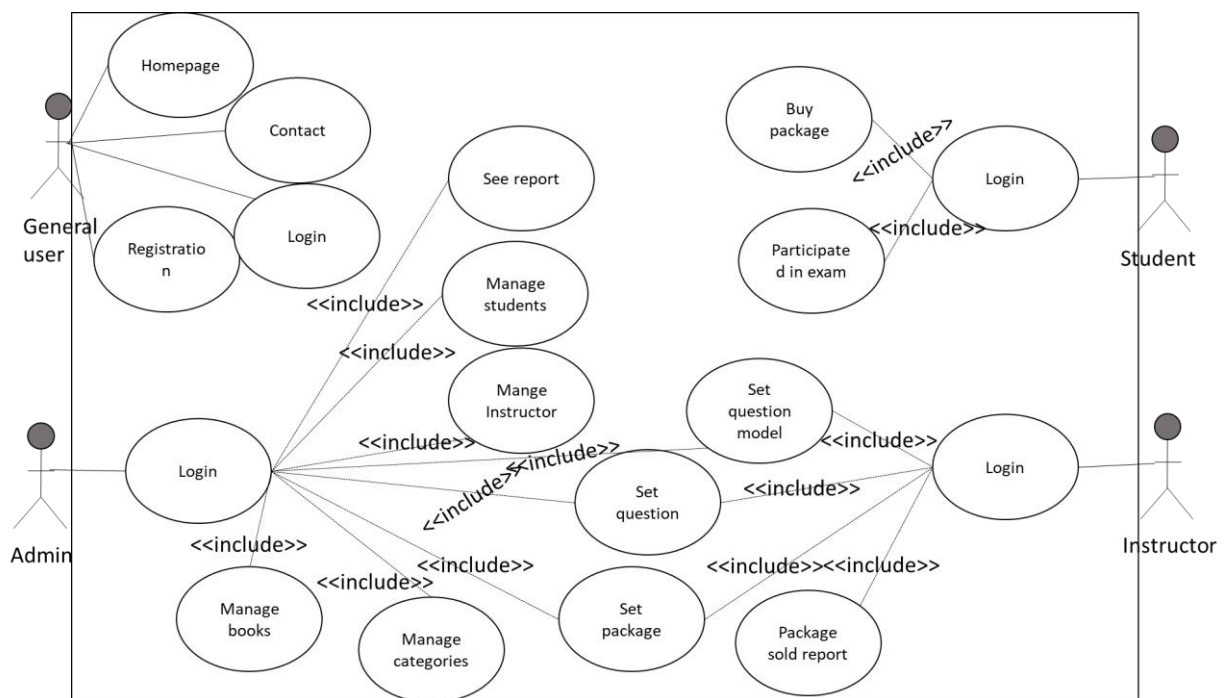


Figure 3.2: Use case diagram of IQ test bd

3.3.1 Use Case Description

Table 3.3.1.1: Use case modelling table for Homepage

Use-case Name	Homepage
Actor	General User
Type	Secondary and essential
Description	Here general user sees the overview of IQ test bd

Table 3.3.1.2: Use case modelling table for Contact

Use-case Name	Contact
Actor	General user
Type	Secondary and essential

Description	User see the contact details and send us a message
-------------	--

Table 3.3.1.3: Use case modelling table registration

Use-case Name	Registration
Actor	General user
Type	Secondary and essential
Description	Student and instructor register here

Table 3.3.1.4: Use case modelling table for login

Use-case Name	Login
Actor	General user
Type	Secondary and essential
Description	Student, instructor and admin login here

Table 3.3.1.5: Use case modelling table for manage categories

Use-case Name	Manage Categories
Actor	Admin(initiator)
Type	Primary and essential
Description	Set a category Edit a category Delete a category

Table 3.3.1.6: Use case modelling table for manage books

Use-case Name	Manage Books
Actor	Admin(initiator)
Type	Primary and essential
Description	Upload a book Delete a book

Table 3.3.1.7: Use case modelling table for manage categories

Use-case Name	Manage Student
Actor	Admin(initiator)
Type	Primary and essential
Description	See list of students

Table 3.3.1.8: Use case modelling table for manage instructor

Use-case Name	Manage Instructor
Actor	Admin(initiator)
Type	Primary and essential

Description	See list of instructors Remove and approved an instructor
-------------	--

Table 3.3.1.9: Use case modelling table for see report

Use-case Name	See report
Actor	Admin(initiator)
Type	Primary and essential
Description	See how many active student and instructor Package sold information

Table 3.3.1.10: Use case modelling table for set question model

Use-case Name	Set Question Model
Actor	Admin(initiator) and Instructor
Type	Primary and essential
Description	Set a question model Edit a question model Delete a question model

Table 3.3.1.11: Use case modelling table for set question

Use-case Name	Set Question
Actor	Admin(initiator) and Instructor
Type	Primary and essential
Description	Set a question Edit a question Delete a question

Table 3.3.1.12: Use case modelling table for package sold information

Use-case Name	Package Sold information
Actor	Instructor
Type	Primary and essential
Description	See how many students are enroll into a package Package sold information

Table 3.3.1.13: Use case modelling table for buy package

Use-case Name	Buy package
Actor	Student
Type	Secondary and essential
Description	Here sees the different package of IQ test bd and buy package

Table 3.3.1.14: Use case modelling table for Participated into exam

Use-case Name	Participated into exam
Actor	Student
Type	Secondary and essential
Description	Student into exam See the performance See the answer explanation

3.4 Logical Data model

Entity relationship diagram is a visualization of database connection. It represents the relationship between different data tables in a database. ER diagram is an abstract data model. It is mainly developed for databases where each entity connects with each other with different kinds of relationship like generalization and specialization. ER diagram does not define the business process but it analyzes data to define and describe what is important to process in an area of business. Fig.3.4 Shows the ER diagram of our project.

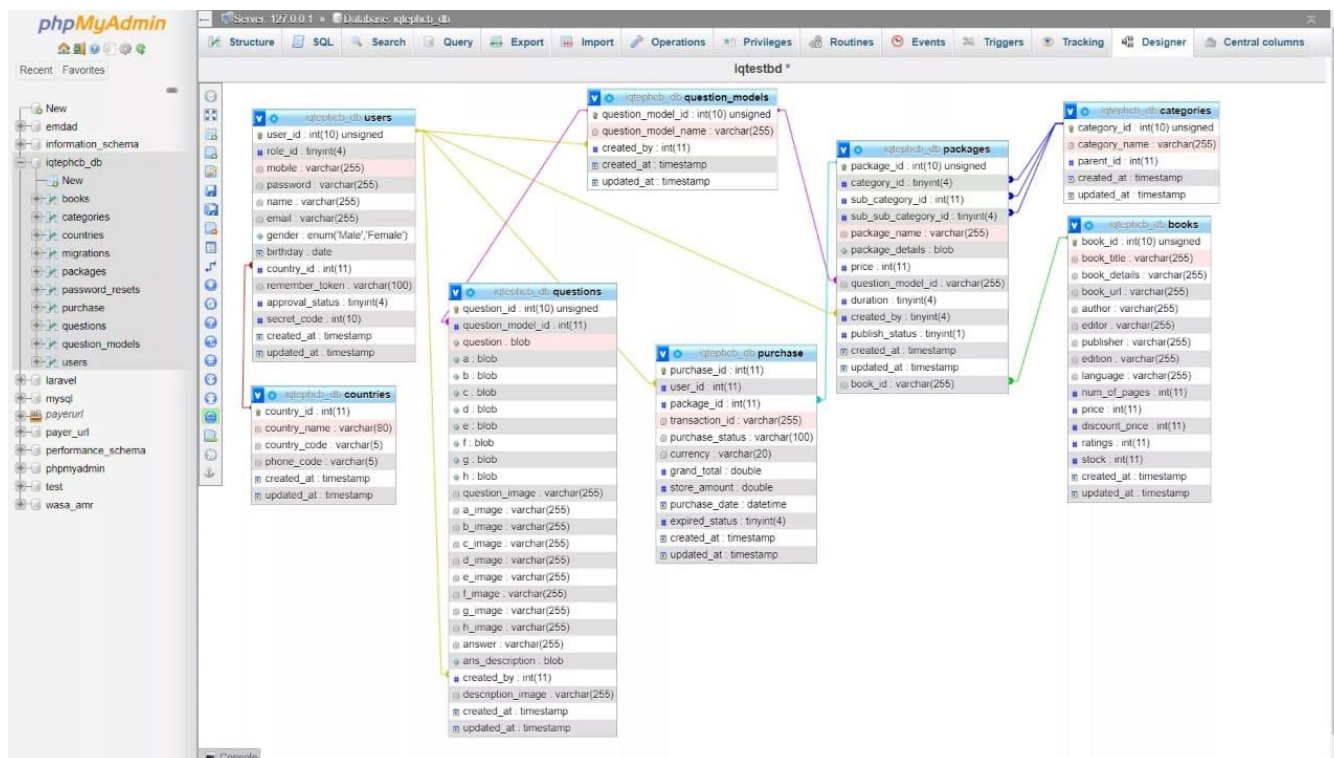


Figure 3.4: ER diagram of IQ test bd

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

User Interface is the front-end design of a website application by which user can interlude with the server of the application. The front-end design makes an application more enchanting to the users. This design is the development of the application for users. It should be catching and users should not feel uncomfortable or disgusted in time of using the application. Adding a good background in Front End design list, it gives the user a good impression for using the website. HTML, BOOTSTRAP, CSS, JQUERY, and AJAX is used for Front-End design in our project.

4.1.1: Staring Page

Here is the initial(first) page of the website. This design is only for general view. Anyone can see the course details and package information.

Figure 4.1.1 Shows the general view of website.

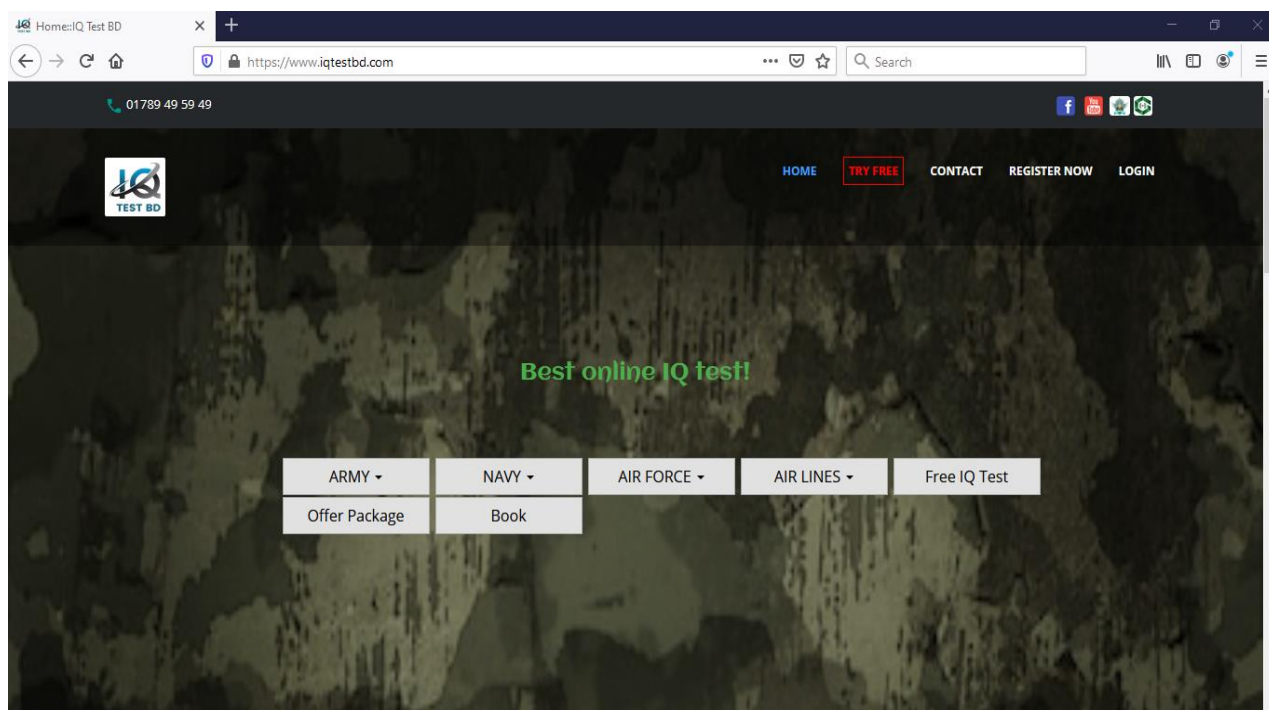


Figure 4.1.1 Shows the general view of website.

4.1.2: Course Details page

Figure 4.1.2 Shows an example of course details.

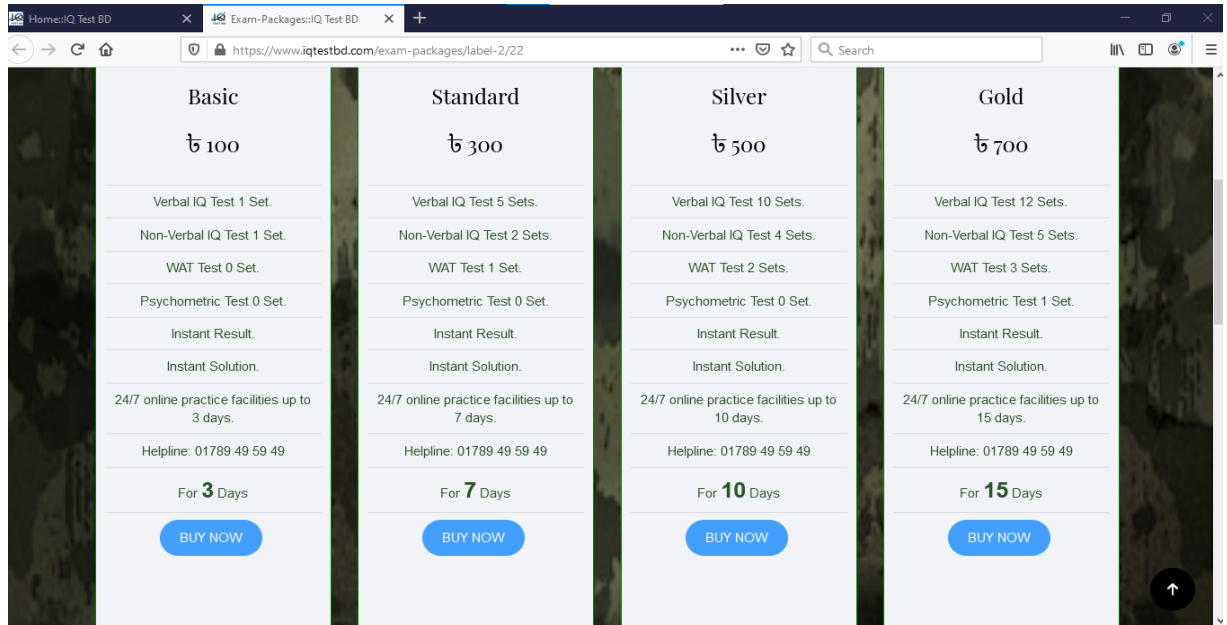


Figure 4.1.2 an example of course details.

4.1.3: offer/discount courses Page

Figure 4.1.3 Shows offer/discount courses.

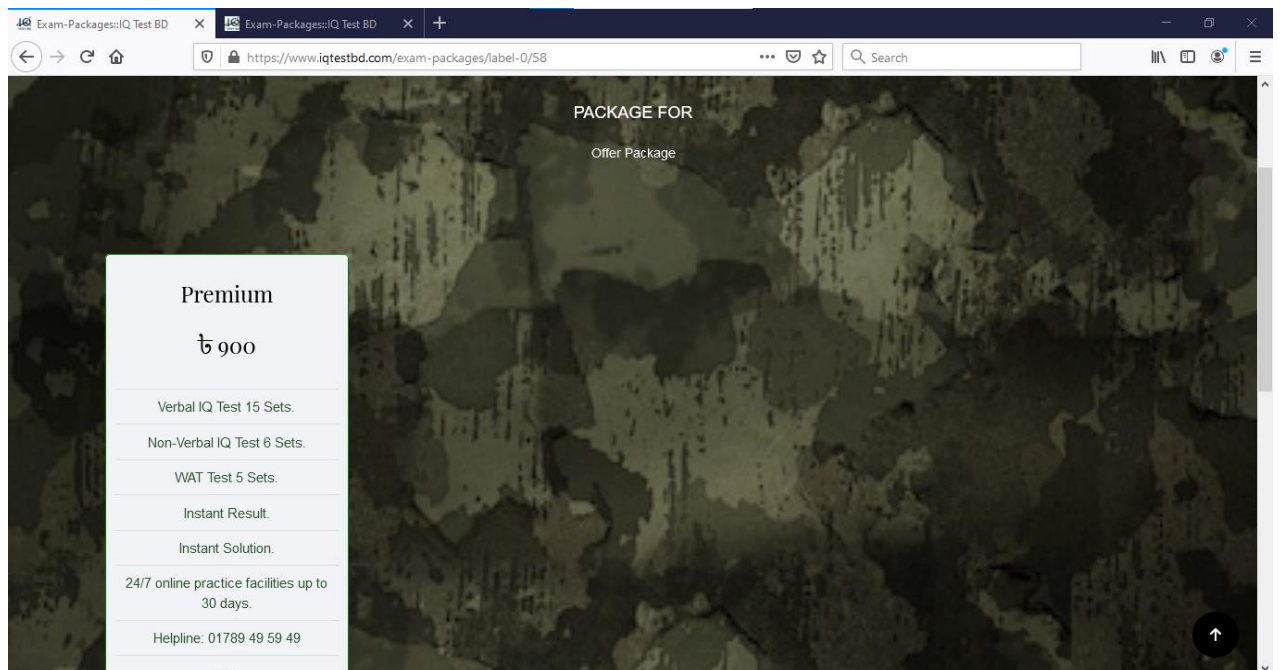


Figure 4.1.3 Shows offer/discount courses.

4.1.4: Contact Page

Here Anyone see our contact information and send us a message. Figure 4.1.4 Shows contact page.

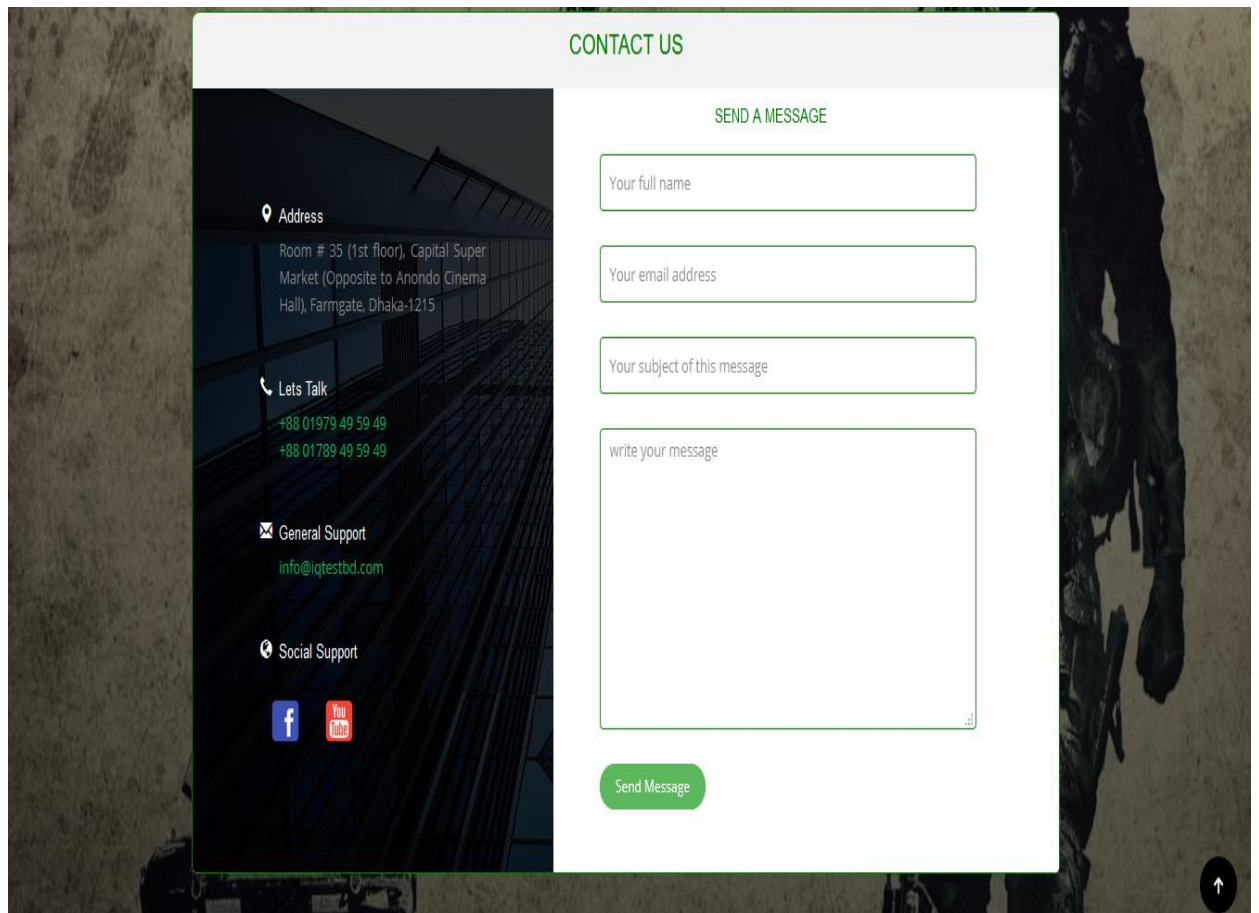


Figure 4.1.4 Contact page.

4.1.5: Registration Page

Here Anyone would done registration. Here user find two option for registration name student registration and instructor registration. Figure 4.1.5 Shows the registration page.

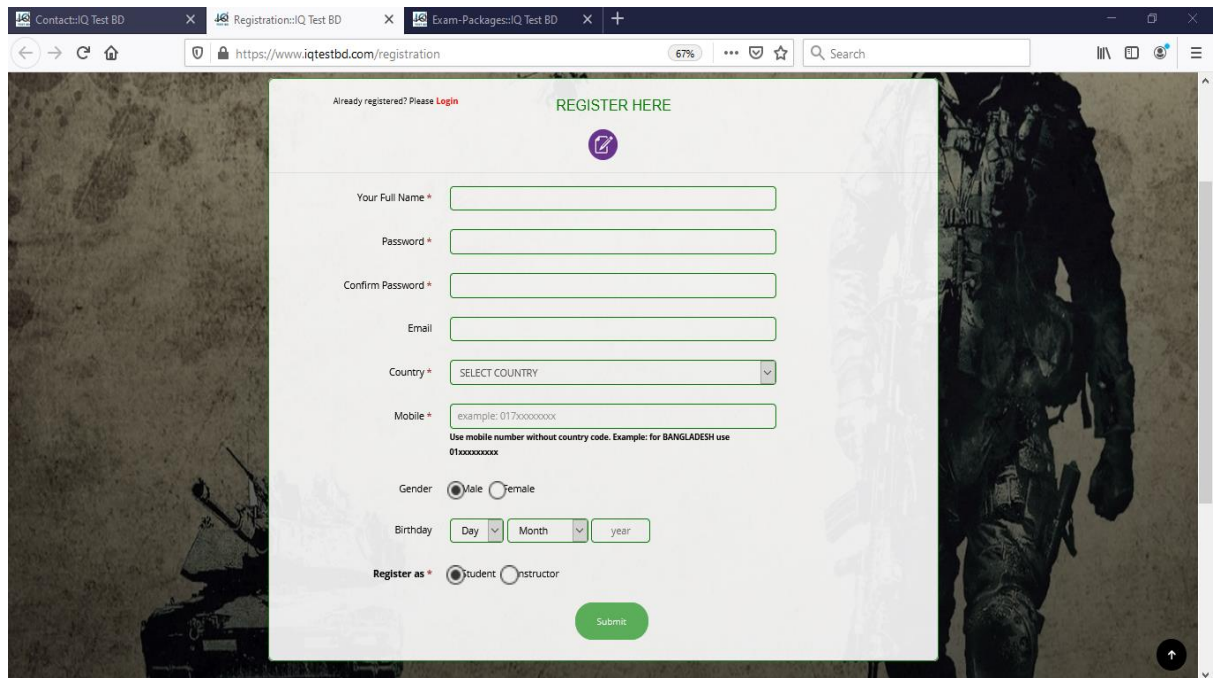


Figure 4.1.5 the registration page.

4.1.6: Login Page

Register user login using that page. Student and instructor login with their cadential.

Figure 4.1.6 Shows the login page.

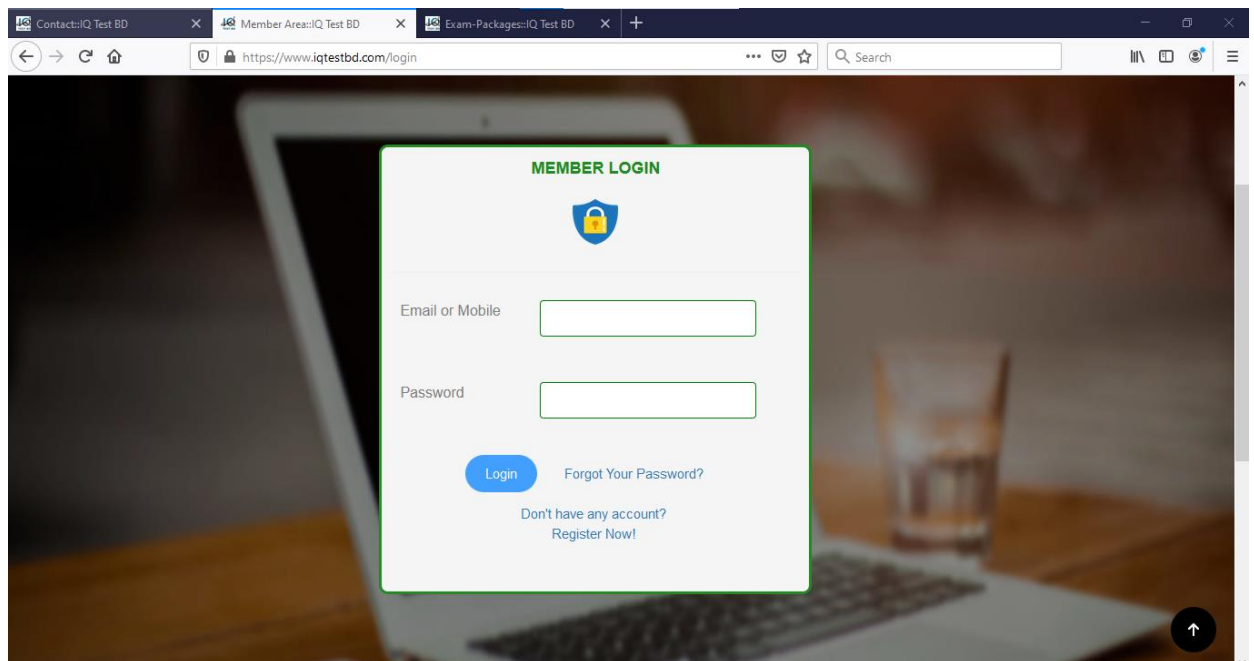


Figure 4.1.6 the login page.

4.1.7: Student Dashboard Page

Here student see the all feature like buy a package or giving exam. Figure 4.1.7 Shows the Student dashboard page.

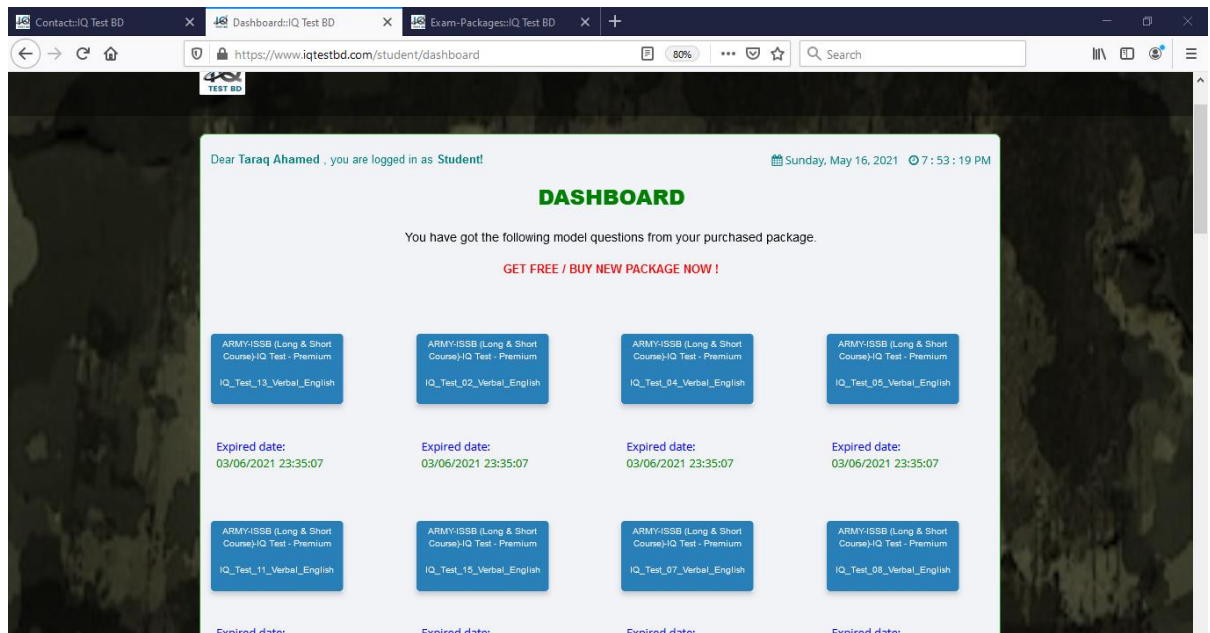


Figure 4.1.7 Student dashboard page.

4.1.8: Student buy package Page

Here student see the all the package or buy a package. Figure 4.1.8 Shows the Student buy package page.

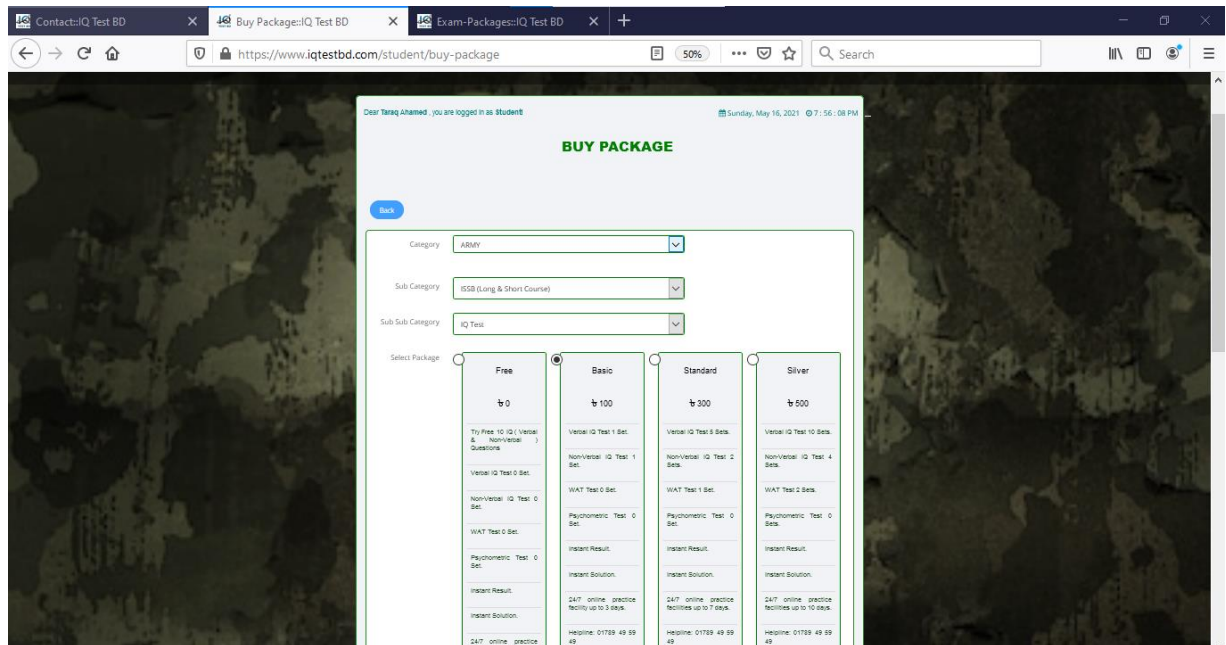


Figure 4.1.8 Student buy package page.

4.1.9: Student Exam Page

Here student participated in exam. Figure 4.1.9 Shows the Student exam page.

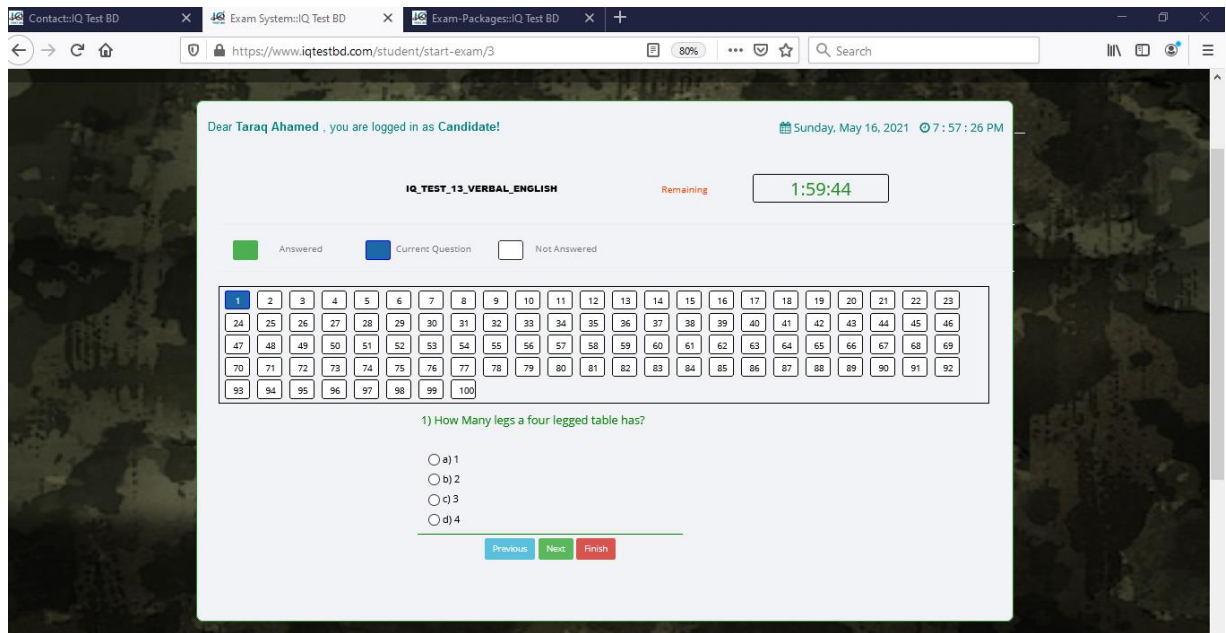


Figure 4.1.9 Student exam page.

4.1.10: Student Exam review Page

Here student see result and all answer explanation. Figure 4.1.10 Shows the Student exam review page.

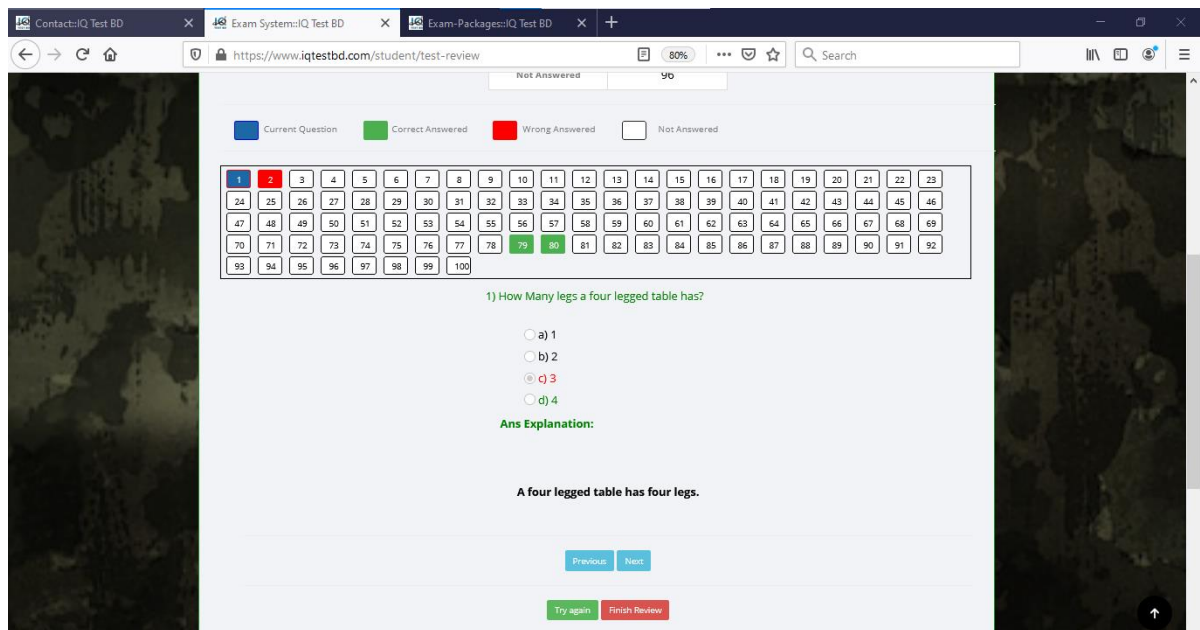


Figure 4.1.10 Student exam review page.

4.1.11: Student Profile Page

Here Student update their info and edit their password. Figure 4.1.11 Shows the student profile page.

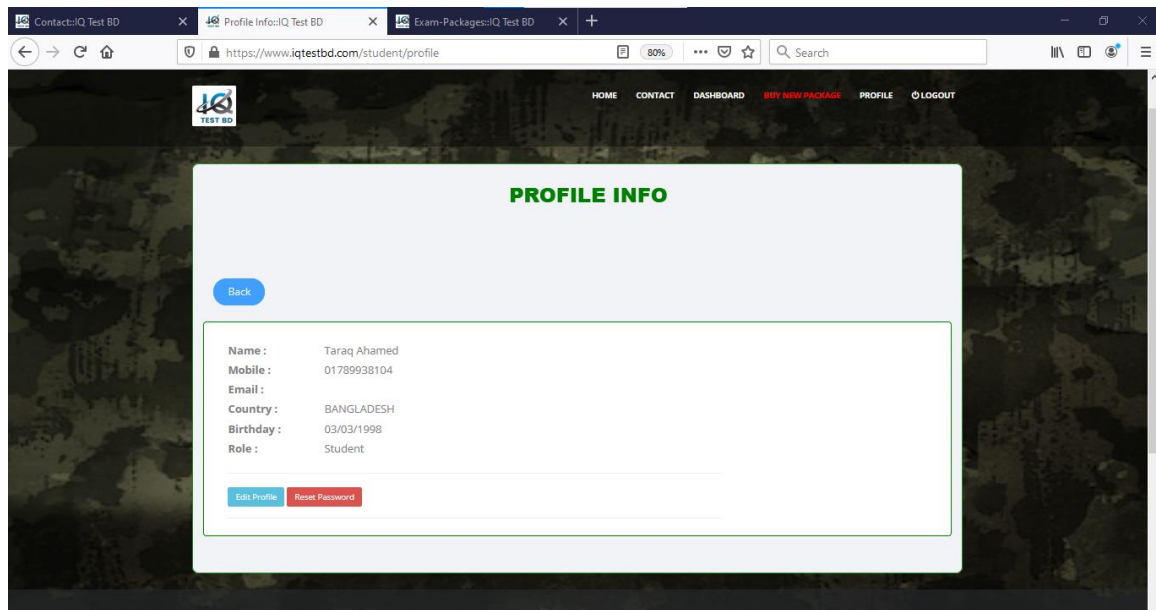


Figure 4.1.11 The student profile page.

4.1.12: Admin Login Page

For admin login system needs a secret code. Figure 4.1.12 Shows the admin login secret code page.

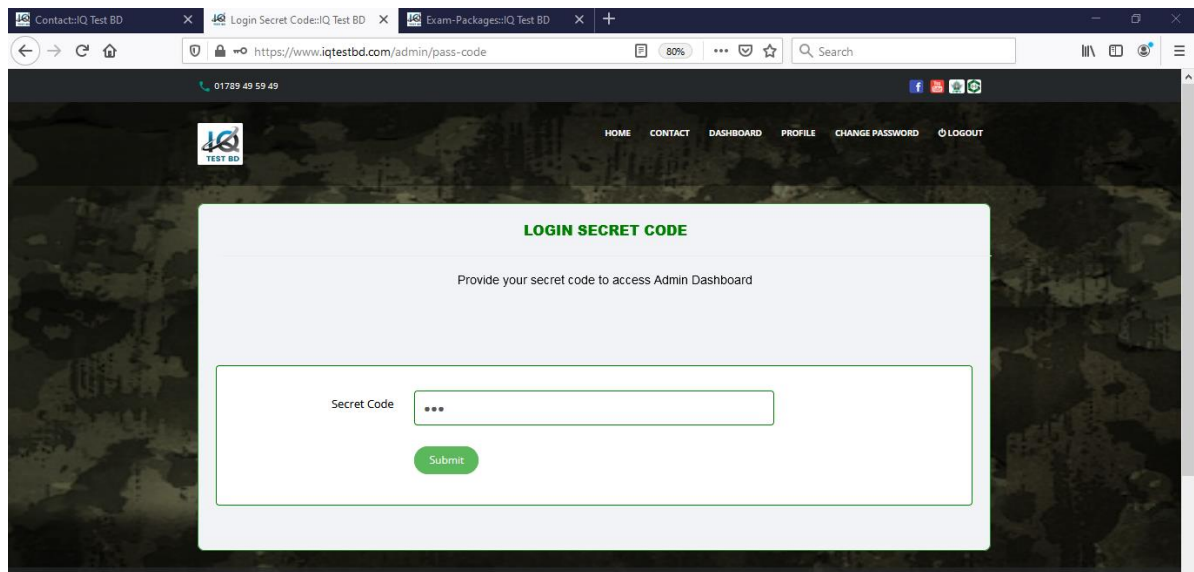


Figure 4.1.12 The admin secret code page.

4.1.13: Admin dashboard Page

After successful login admin see all functionality and do the job using a click. Figure 4.1.13 Shows the admin dashboard page.

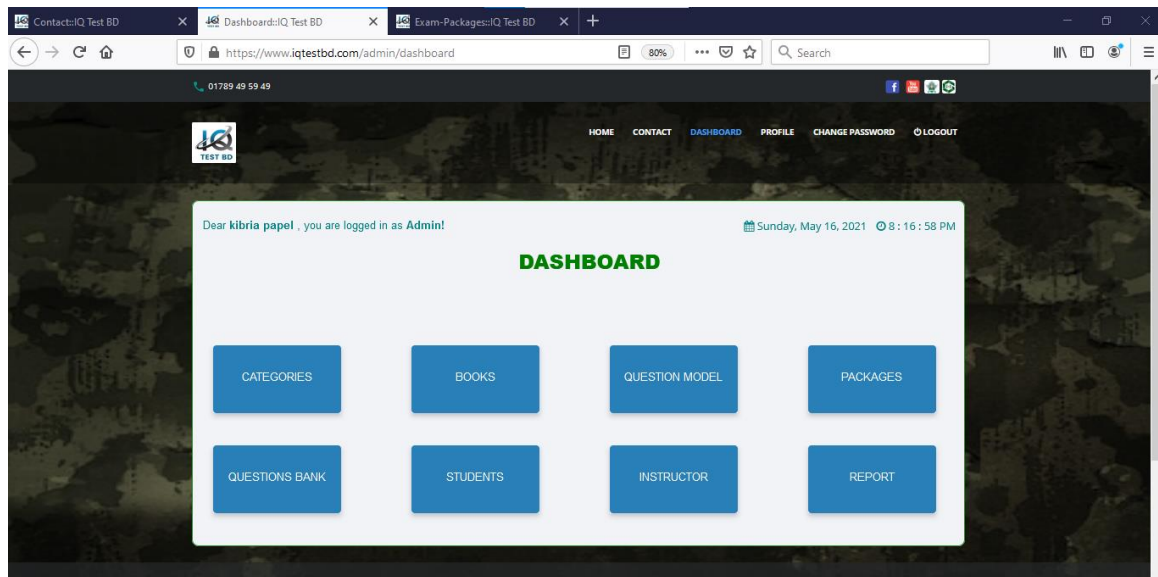


Figure 4.1.13 The admin dashboard page.

4.1.14: Admin Manage Category Page

Here admin add a category, edit a category and delete a category. Figure 4.1.14 Shows the admin manage category page.

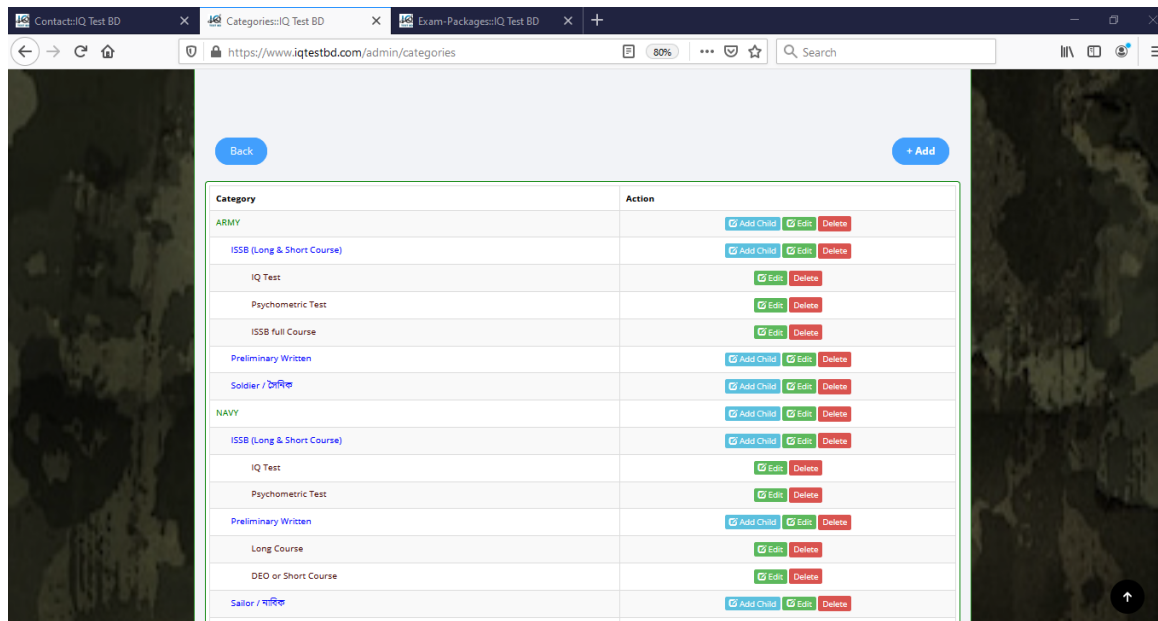


Figure 4.1.14 The manage category page.

4.1.15: Admin manage book Page

Here admin add a book, edit a book and delete a book. Figure 4.1.15 Shows the admin manage book page.

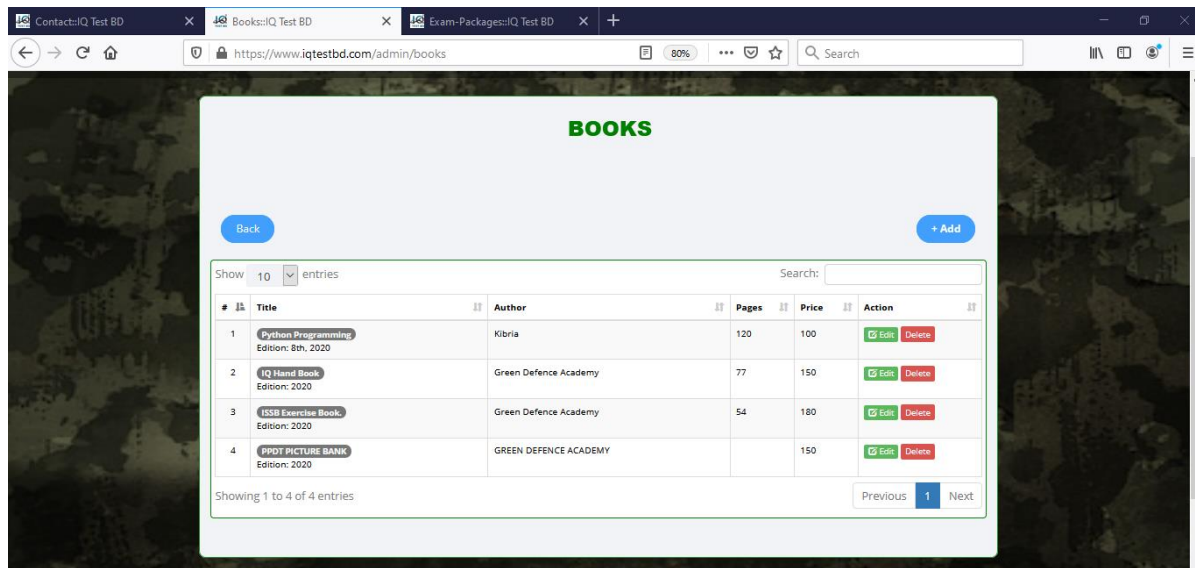


Figure 4.1.15 The admin book page.

4.1.16: Question Model Page

Here admin set the Question model, Edit the Question model, delete the question model and delete with dependency mode. Figure 4.1.16 Shows the question model page.

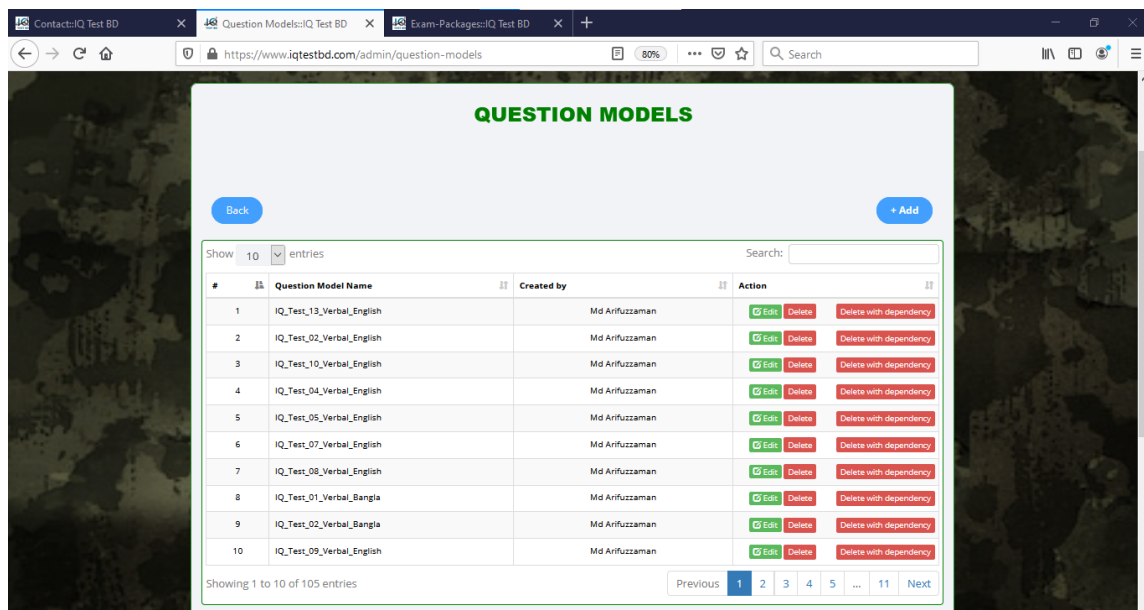


Figure 4.1.16 The question model page.

4.1.17: Manage Package

Here admin set a package, update a package, delete a package and published or pending a package. Figure 4.1.17 Shows the manage package page.

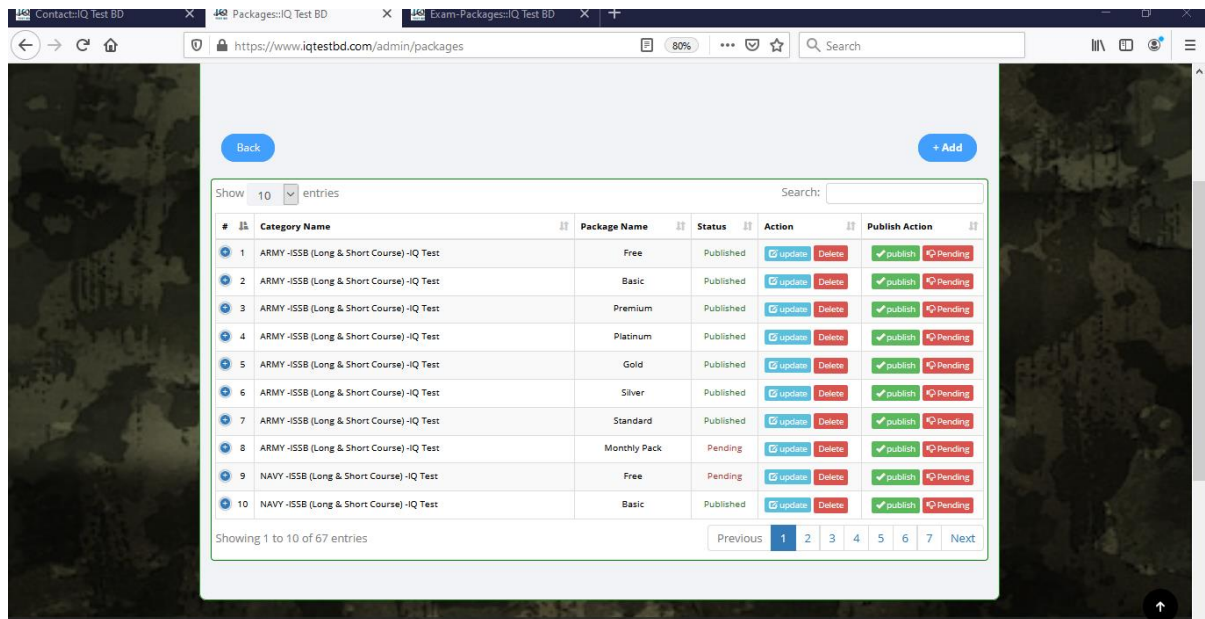


Figure 4.1.17 The manage package page.

4.1.18: Question Bank

Here admin add a question into a specific category, edit a question and delete a question.

Figure 4.1.18 Shows the Question Bank page.

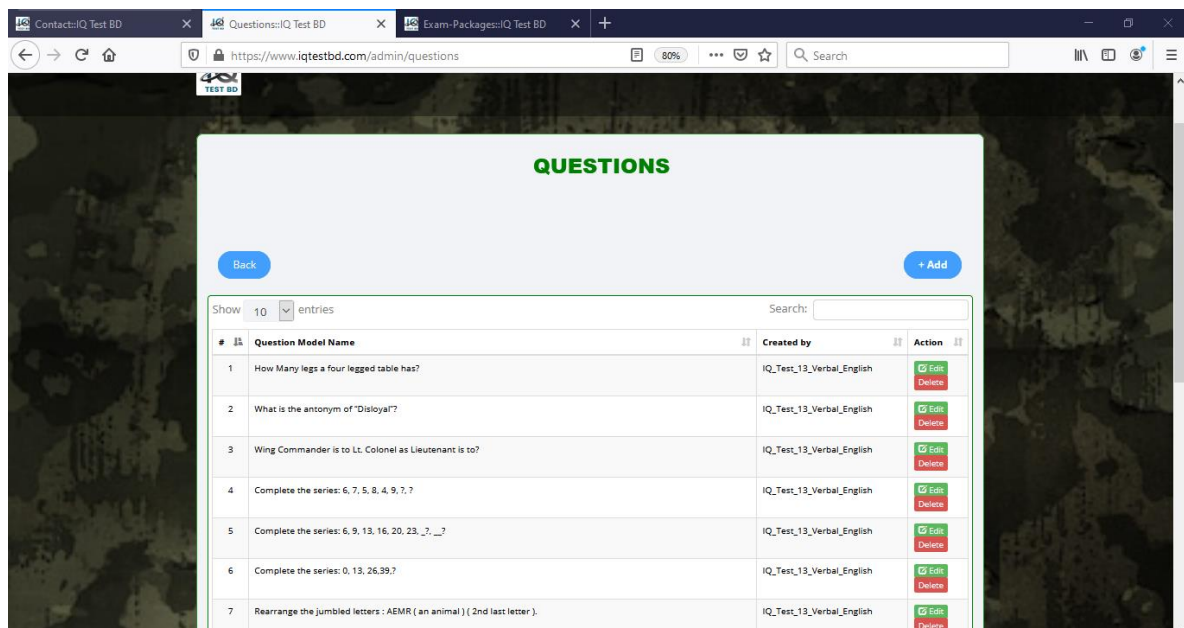


Figure 4.1.18 The Question Bank page.

4.1.19: Manage student

Here admin see the list of students and delete a student. Figure 4.1.19 Shows manage student page.

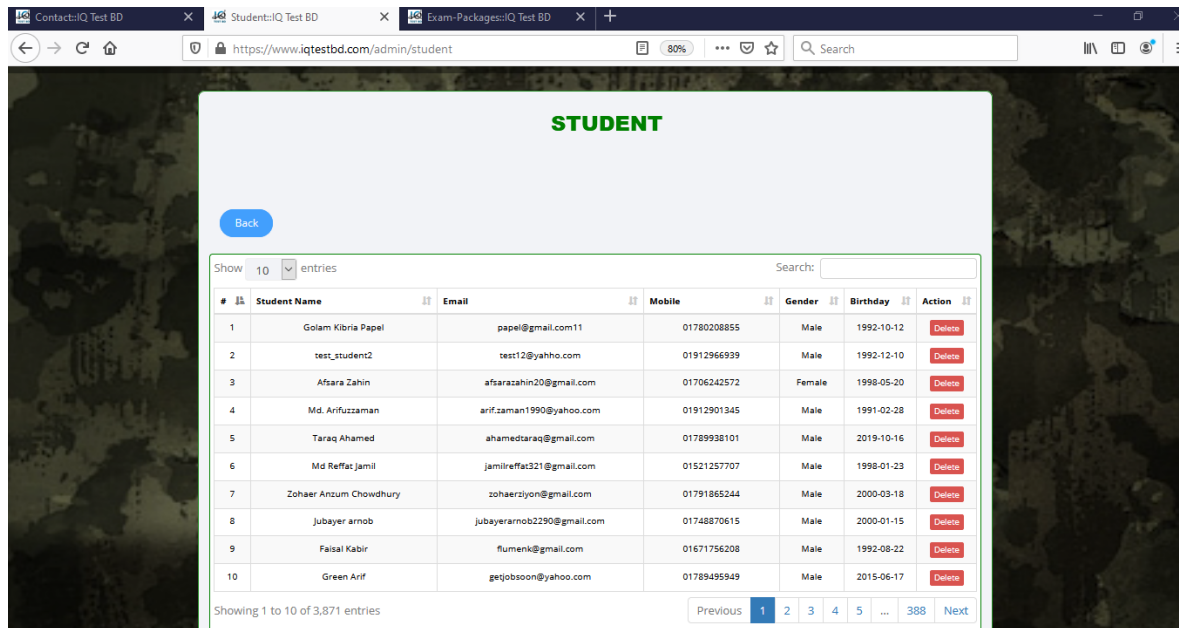


Figure 4.1.19 The Manage student page.

4.1.20: Manage Instructor

Here admin can see the list of interested instructor and admin can approved an instructor for uploading question. Figure 4.1.20 Shows the Manage Instructor page.

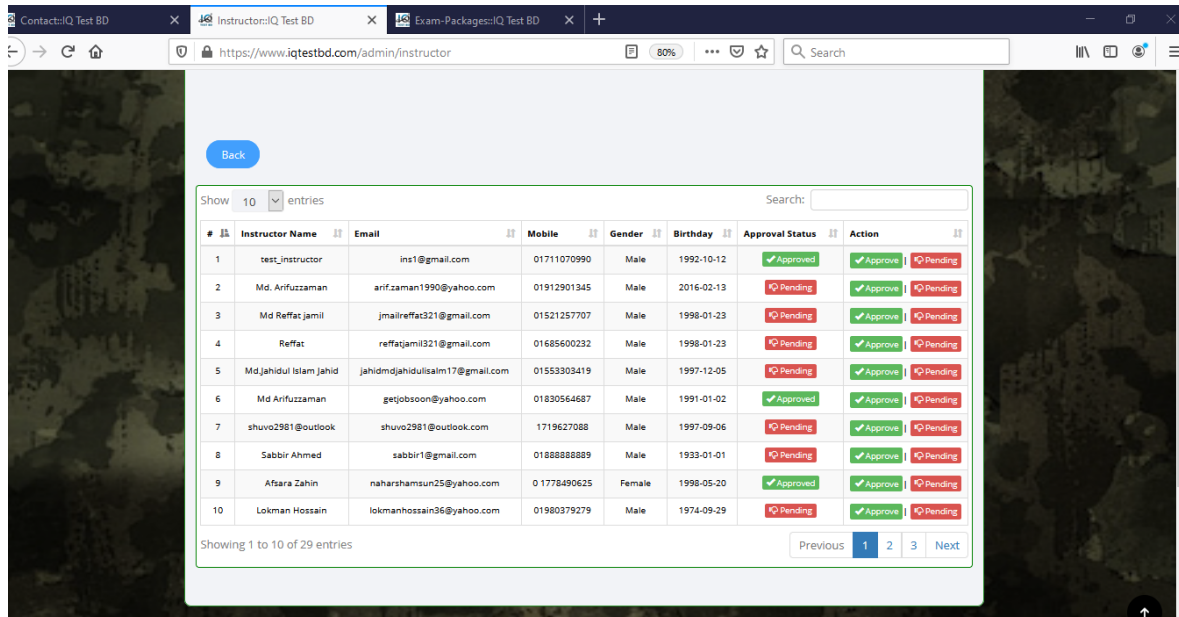


Figure 4.1.20 Manage Instructor page.

4.1.21: Report

Admin can report on specific date. Figure 4.1.21 Shows the required date and report page.

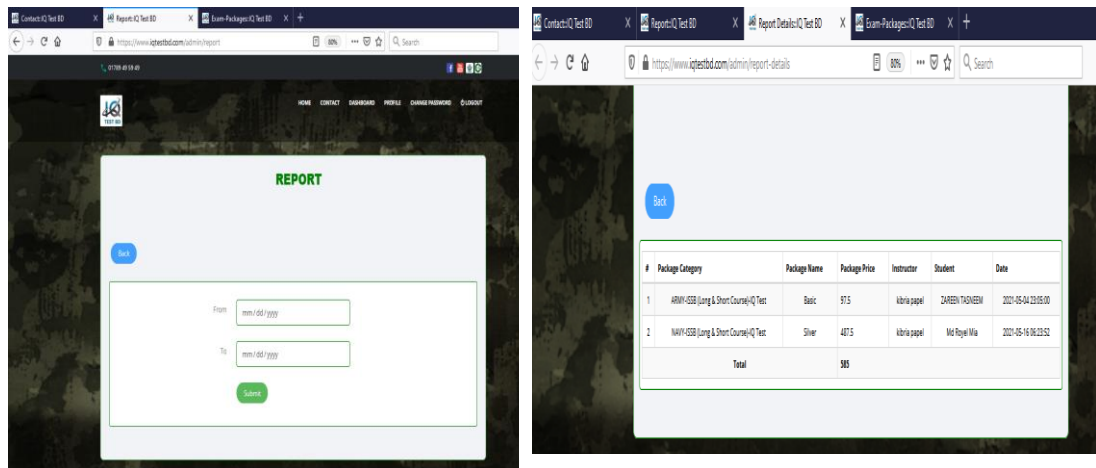


Figure 4.1.21 The required date and report page.

4.1.22: Instructor dashboard Page

After successful login instructor see all functionality and do the job using a click. Figure 4.1.22 Shows the Instructor dashboard page.

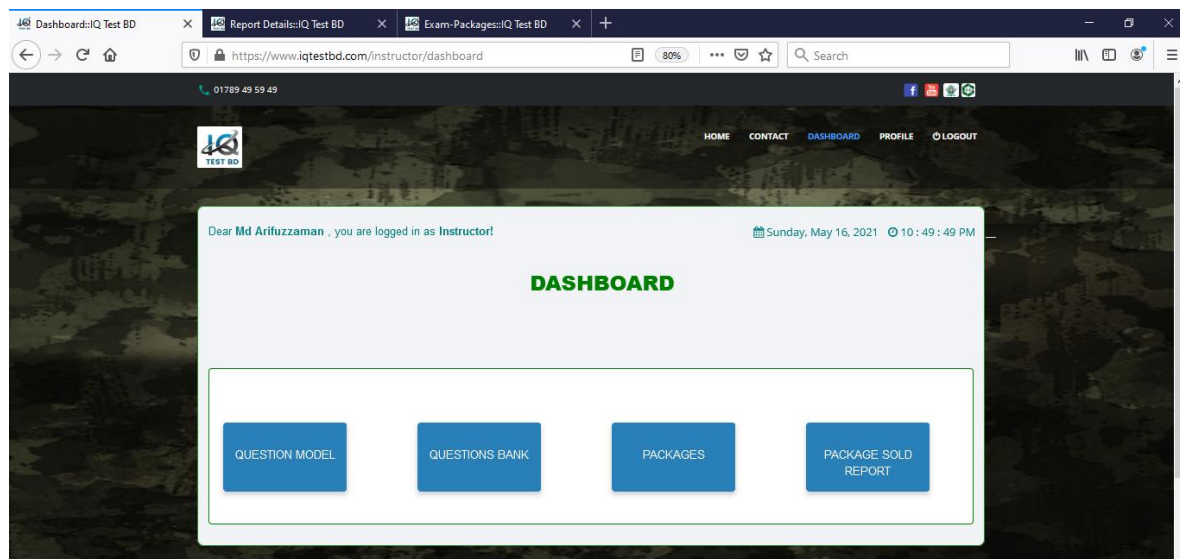


Figure 4.1.22 The Instructor dashboard page.

4.1.23: Question Model

Here Instructor set the Question model, Edit the Question model, delete the question model and delete with dependency mode. Figure 4.1.23 Shows the question model page.

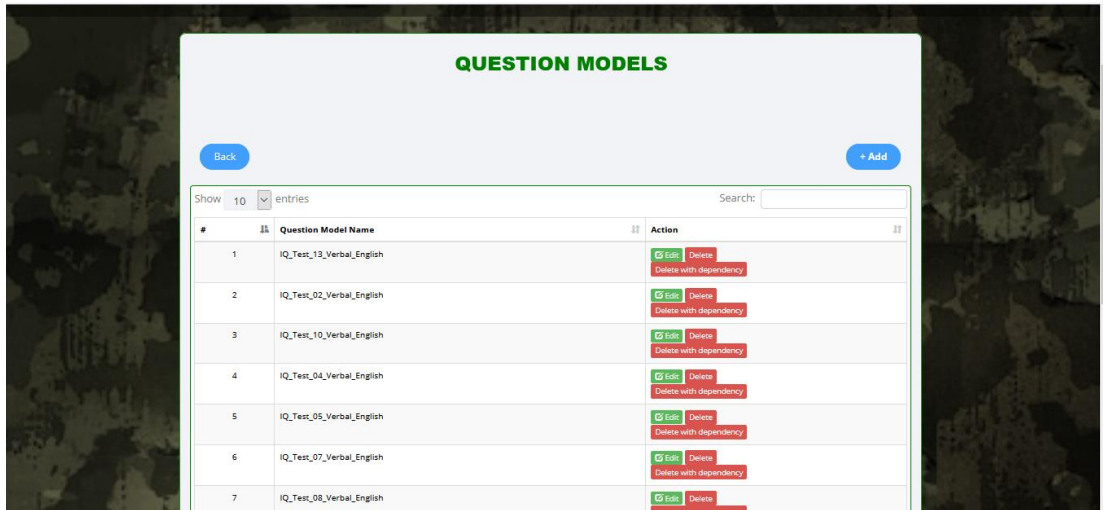


Figure 4.1.23 The question model page.

4.1.24: Question Bank

Here Instructor add a question into a specific category, edit a question and delete a question. Figure 4.1.24 Shows the Question Bank page.

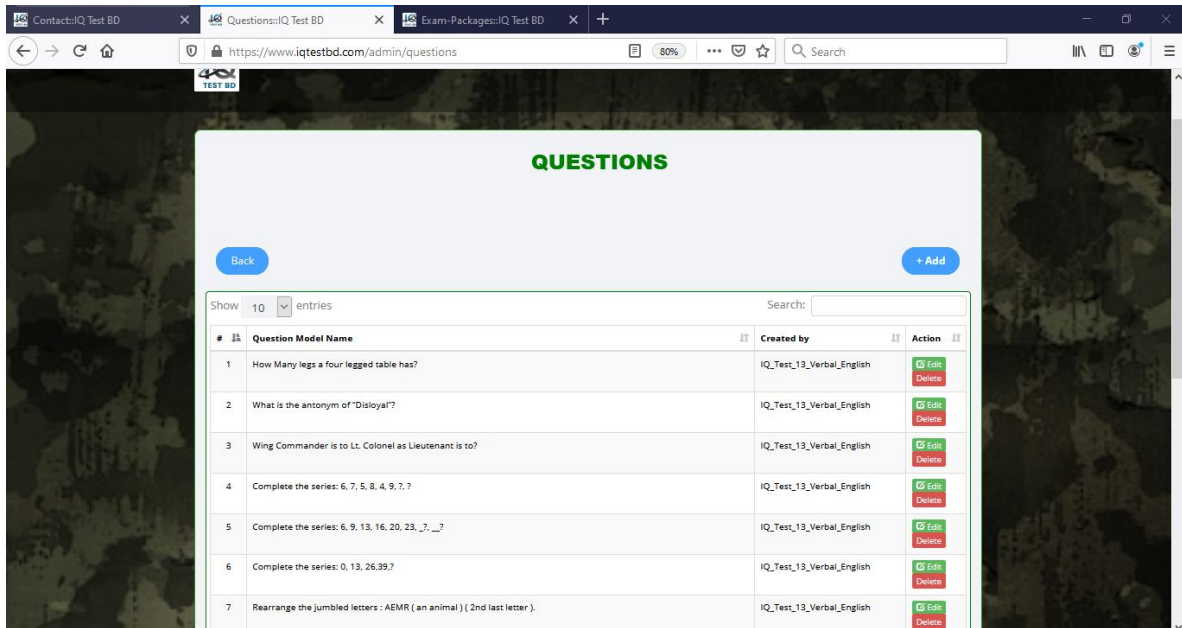


Figure 4.1.24 The Question Bank page.

4.1.25: Manage Package

Here Instructor set a package, update a package, delete a package and published or pending a package. Figure 4.1.25 Shows the manage package page.

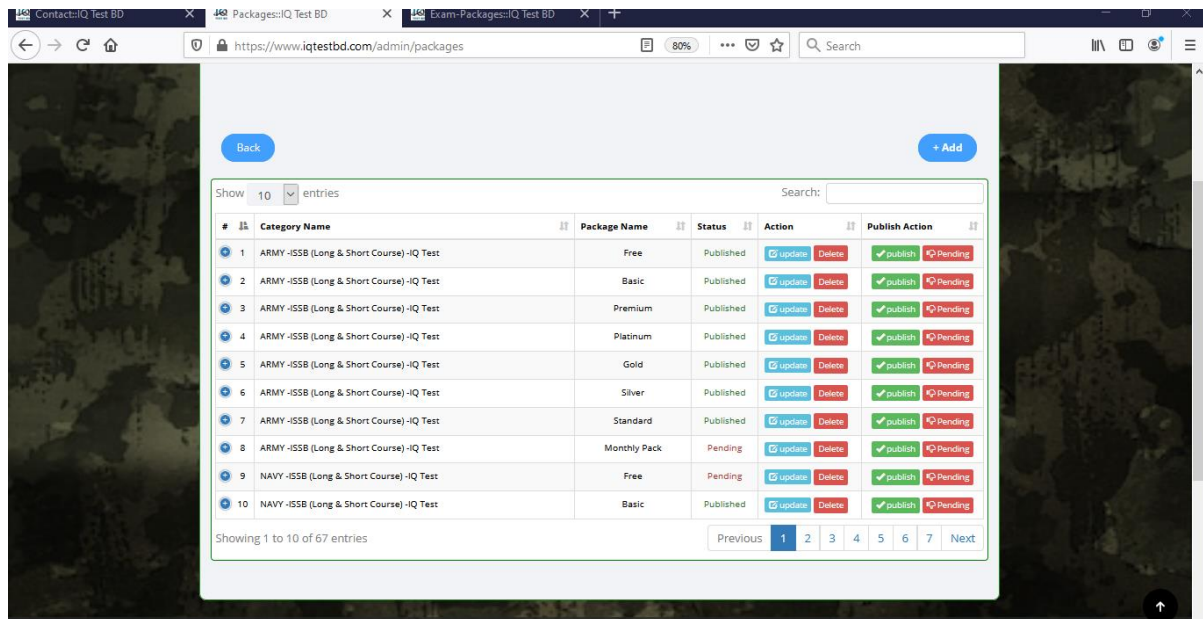


Figure 4.1.25 The manage package page.

4.1.26: Package sold report

Here Instructor see the package sold information report. Figure 4.1.26 Shows the package sold report page.

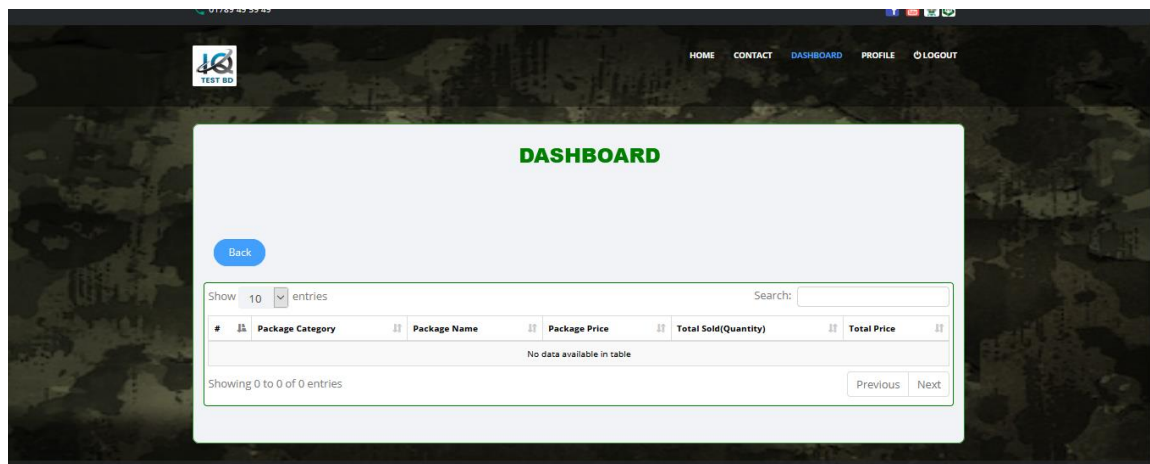


Figure 4.1.26 The package sold report page.

4.2 Back-end Design

Back-end depends on Front-End. Because firstly it process data from the Front End. Front-End process data in such a way, that back -End can process data .Back-end is a process that the user can't see it. User can't see its structure. For connecting with the database developers need to use a programming language and framework, such as Laravel. In web project back -end can use easily more than android.

We use Laravel as server-side language and MySQL server for managing server-side action.

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

For developing web application MySQL is used most of the time. In this project we also use MySQL database and stored in localhost phpMyAdmin.

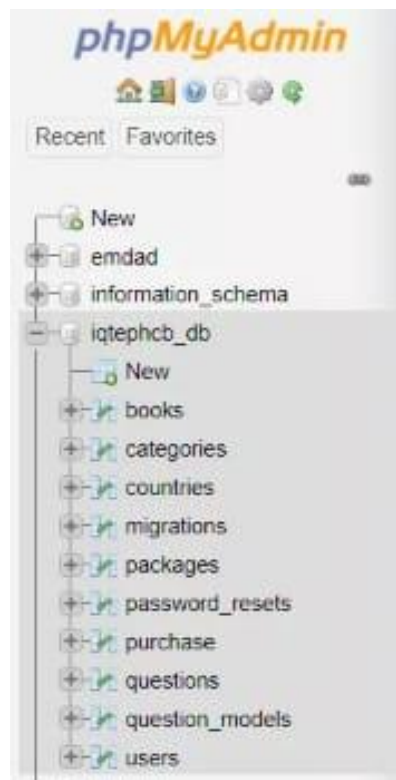


Figure 5.1: Database table

5.2 Implementation of Front-end Design

Front-End Design is most important thing of a project. Because it attracts most of the people for using the application.

People interact with Front-End design at first. The Front-End is the part of a software system. Back-End process input from the Front-end. Front-End collect data from the user that can be changed. Back- End is an indirect process.

5.3 Implementation of Interactions

When we build an application, it is necessary that the application user can use easily. And keeping in mind that we try to make our application simple and easy. So that the user can use it comfortably. If user face any difficulties they can also get help.

5.4 Testing Definitions

There are some levels of testing

- Unit Testing
- Systems Testing
- Acceptance Testing

5.4.1 Unit Testing

Unit testing is the first level of testing. It is done during the development of the system. It is essential for verification of the code. It is performed by the programmer. They find out the error of the code then fix it. No formal documentation required for this program.

5.4.2 Integration Testing

This is the second level of testing. Due to the integration of modules different dependent modules are tested for any bugs.

5.4.3 Systems Testing

This is the third level of testing software. In this level testing will be done by technicians and users together. The third level of testing includes systems testing. Systems testing verify that the system performs the business functions while meeting the specified performance requirements. It is performed by a team consisting of software technicians and users. It uses the Systems Requirements document, the System Architectural Design and Detailed Design Documents, and the Information Systems Department standards as its sources. Documentation is recorded and saved for systems testing.

α -Testing β -Testing

5.4.4 Acceptance Testing

This is the final level testing. After this testing a software can be assured that the system is ready for production use. I fulfil all the requirements of the project document.

5.5 Testing Implementation

Table 5.4.1: Testing Implementation

NO	Tested Case	Tested Input	Expected Outcome	Actual Outcome	Result
1	Registration	Enter Name, email, Phone number, Password etc.	Registration successful and enter into the system	Registration successful and entered into the system	Passed
2	Registration	Enter Name, email, Phone number without password.	Re-enter warning for failure	Registration Failed	Passed
3	Login	Enter email/ phone number and password	Enter into the system if he had done registration first	Entered into the system	Passed
4	Login	Input by wrong user name and password	Re-enter warning for failure	Login Failed	Passed
5	Create Categories	Add by valid info	Successfully added	Successfully added	Passed

6	Create Books	Add by valid info	Successfully added	Successfully added	Passed
7	Create Question Model	Add by valid info	Successfully added	Successfully added	Passed
8	Create Packages	Add by valid info	Successfully added	Successfully added	Passed
9	Create Question Bank	Add by valid info	Successfully added	Successfully added	Passed
10	Create Report	Add date range	Show report	Show report	Passed

5.6 Test Results and Reports

We have tested our project very carefully and we are successful. We try to find errors, so we work on it many times. But we are not able to find any errors. We make our application easier so that user can use it comfortably. In our report we put all of our works together.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Conclusion

As ours is a developing country and the significance of our defence sector is huge. There are a lot of students who are very much capable of joining this sector but they face some problems such as, high coaching center cost, unawareness of circular, and lack of perfect guideline. The proposed system “IQ Test BD” will provide proper guideline, IQ tests, low cost, easy learning methods and payment system. Thus, it will solve all the issues the students are facing and will play a vital role in the sector of defence.

6.2 Future Scope

- Adding many more course
- Adding many more package
- Adding video lecture by experienced instructor
- Adding air force course
- Adding air force video lecture content
- Adding more related books and short note

We want to include all the things for joining defence sector so that student can learn easily. In fact, our mission is, “ONE SYSTEM ALL SOLUTION for DEFENCE SECTOR”.

APPENDICES

Appendix A

Project Reflection

For making our project successful, we are working hard since for months. We have tried our best for making **‘IQ Test Bd’**: A **distributed learning platform** for our country. It is and web-based Application.

Appendix B

Abbreviations and acronyms

UX: User Experience

HTML: Hypertext Markup Language

CSS: Cascading Style Sheets

AJAX: Asynchronous JavaScript and XML

XAMPP: Cross-platform (X), Apache, Mysql, PHP and Perl

OTP: One-Time Password

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