

C2C E-COMMERCE WEBSITE

BY

M.N.U YEA HIA KHAN

ID: 161-15-7433

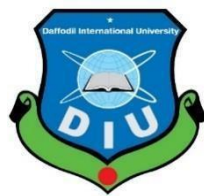
This report presented in partial fulfillment of the requirements for
The degree of bachelor of computer science and engineering.

SUPERVISED BY

MD. TAREK HABIB

Assistant Professor

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Daffodil International University.



DAFFODIL INTERNATIONAL UNIVERSITY, DHAKA, BANGLADESH

DECEMBER 2019

APPROVAL

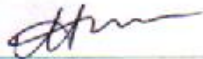
This Project/internship titled “C2C E-COMMERCE WEBSITE”, submitted by M.N.U YEA HIA KHAN, ID No: 161-15-7433 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 07 December 2019.

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DECLARATION

I hereby declare that, this project has been done by me under the supervision MD. TAREK HABIB, Assistant Professor, Department of Computer Science and Engineering, Daffodil International University.

I 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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Assistant Professor

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Submitted by:


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Daffodil International University

ACKNOWLEDGEMENT

At first, I express my heartiest thanks and gratefulness to almighty Allah for making me eligible to complete this project successfully.

Then I would like to express my special thanks to **MD. TAREK HABIB** sir, (**Assistant Professor**, Department of Computer Science and Engineering, Daffodil International University) for providing me necessary information regarding this project & his support to complete this project.

Finally, I must acknowledge with due respect to my parents for their constant support.

ABSTRACT

In our country we do not find good tutor easily also tutor do not find tuition easily so this project will be a common platform of tutor and guardians. The main purpose of this project (Online Learning and Exam System) is to make a better solution for tuition and tutor find. In this project a tutor will find tuition easily also guardian find tutor. A guardian can easily find tutor to making job post will his/her all requirements, also a tutor create his profile so than guardian can find him/her. Tutor can be create package also to develop this web application I used raw PHP (OOP), MySQL which make this application faster. We also used HTML, CSS, Bootstrap, jQuery and JavaScript, AJAX for better web design and make this application responsive and user friendly.

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CHAPTER 1

INTRODUCTION

1.1 Introduction In this time internet is necessity for every people & the main part of internet is website. 'TutorBd' is a web based project where we can find tutor or tuition easily. To find tutor or tuition now we do not need TO-LET poster because 'tutorBd' is a common platform of tutor and guardian. If you need tuition just go to the website and create an account then make you profile and package, the package system help you to give message to guardian when, where, how many student you want to tech on your price. On the other side if you need tutor for your child then just create an account as guardian and make job post. In the post you can specified every single details about your child and salary time location and contact information, and when a tutor see your post he/she will contact with you.

1.2 Motivation my main motivation is to-let poster. In our country when a teacher need a tuition he/she user to-let poster to find tuition, on the other side a guardian can to find a tutor easily, that's why I decided to make a common platform for tutor and guardian where a tutor find tuition and a guardian find tutor easily.

1.3 Objectives

- Build a web application for tutor and guardian.
- Make the application user friendly and effective more than existing system.
- Add new feature like package system for tutor.
- Make the application faster and secure.

1.4 Expected Outcome A user friendly and effective web application for tutor and guardian.

1.5 Report Layout

In this report I will write about

- Requirement analysis
- Background
- Design
 - Font-end
 - Back-end
- Implementation
- Use case description
- Testing
- Future scope

CHAPTER 2

BACKGROUND

2.1 Introduction This is a web based project, a web application where tuition finding problem will be solve. Already in our country have some projects like this, but those are not user friendly and effective. That's why I want to build this project.

2.2 Related Works Yes there are some related work in our country like Bd Tutors, DeshTutor, BD Home Tutors etc.

- **Bd Tutors:** This web application was build using PHP, and this loading speed is good. But the main problem of this website is security. The security of this application is not good enough also feature of this website is lod.
- **Desh Tutor:** This web application used PHP, JQuery, Bootstrap and so on. The loading speed is good enough, but the user interface is not user friendly it's to messy.
- **Bd Home Tutor:** This is a wordpress website, Ths performance of this website is so bad, loading speed is not good enough.

2.3 Comparative Studies Comparatively my project will be more effective than other existing project. This project will more user friendly because I will make is responsive so that all devise user can use easily. Loading speed will be so fast because I will use raw OOP PHP and AJAX request, OOP PHP give it more security the raw PHP and the AJAX request will give it a cool effect. Also I build a new feature called package this feature helps tutor to find specific tuition easily. Finally I this this application will be the best solution of tutor finding problem.

2.4 Scope of the Problem I scope of the problem can be manpower because this is single project and I have to requirement analysis, data collect, design, development, test etc. Another problem is raw coding. I this project I will use raw code and raw code gives more bug than framework.

2.5 Challenges

- **Data collect:** data collect is a challenge of me. But I overcome the challenge because some of my friend is tutor and also I am a tutor.
- **User friendly design:** To make application user friendly and responsive is another challenge. I will use bootstrap and jquery to make this project responsive.
- **Fast loading speed:** To make its fast loading I will maintain the relationship of database table, so that user can fetch or store data easily.
- **Raw coding:** Raw coding is always challenging, but will use OOP approach to overcome this challenge.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Business Process Modeling: Graphical representation of a business is called business processing model, so here is the graphical representation of ‘tutorbd’ business.

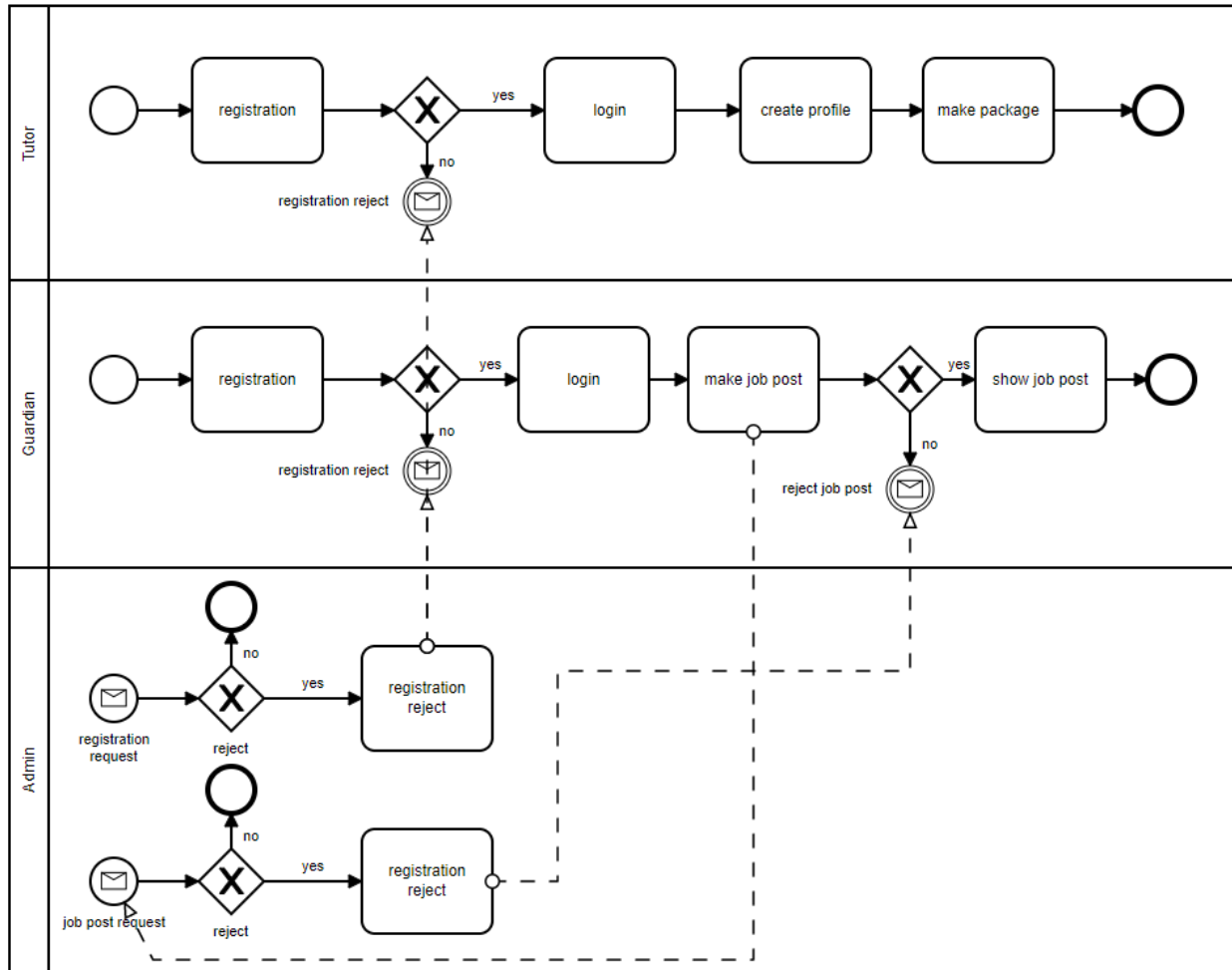


Figure 3.1: Business Processing Model

3.2 Requirement Collection and Analysis It is a process or technique to determine the user of client expectations for a project. It make development process easy. In this project I also analysis requirement. I was collect data from my friend who find tuition or who already do tuition, also collect data from internet like how can I make this process more user friendly and easy. It helps me to develop some new features like package create.

3.3 Use Case Modeling and Description:

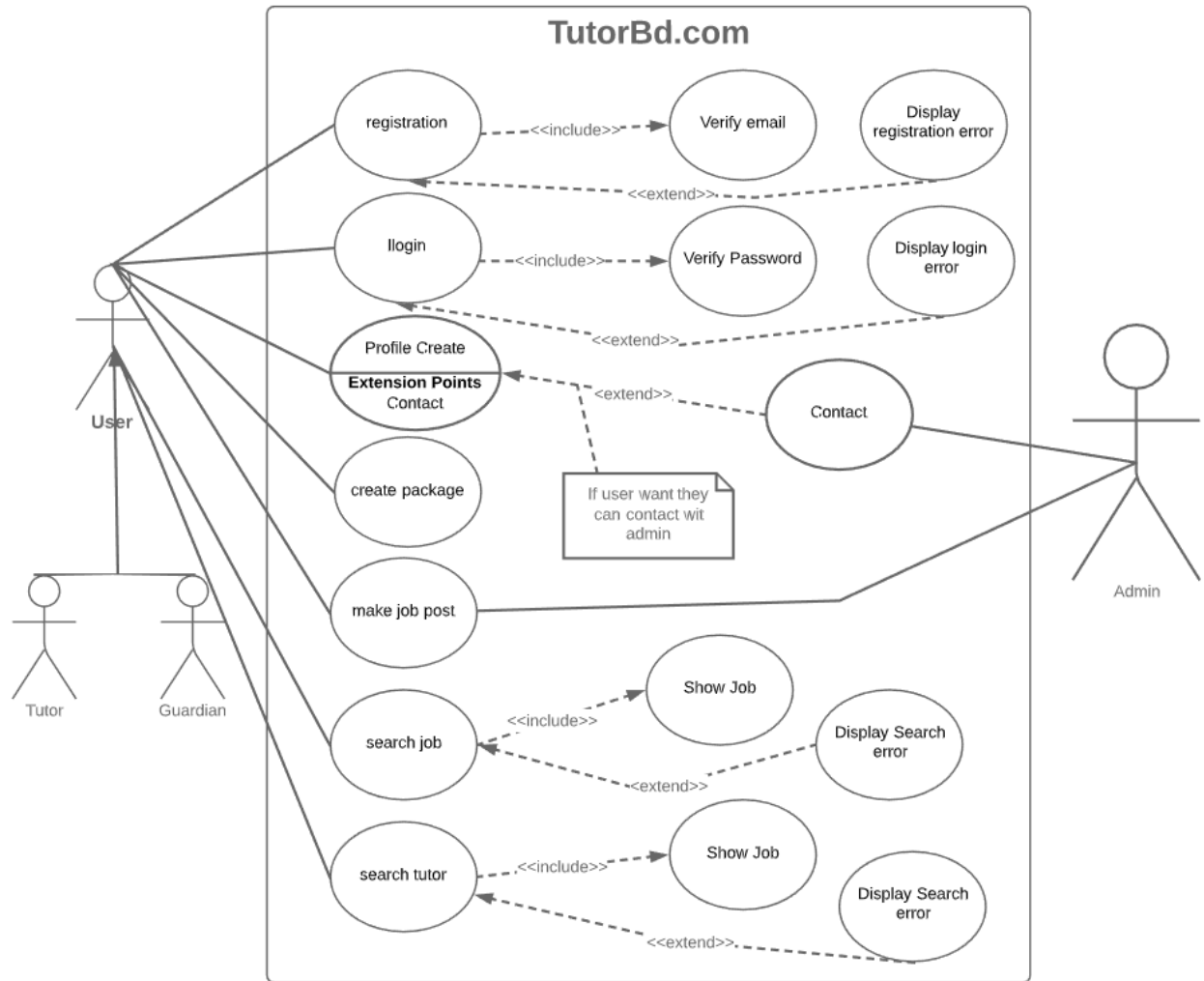


Figure 3.2: Use case model

Use case description:

Use Case No	1.1
Use Case Name	Registration
Actor	Tutor, Guardian
Description	Allowing Tutor or Guardian to registration to the system.
Precondition	Tutor, Guardian should remain in the registration page.
Trigger	Click the “Registration” Button.
Flow Of Events	➤ Five text fields to give Registration form. Name, Email, Password, Confirm Password, User type. ➤ Unique Email is required ➤ Password and Confirm password must same ➤ Fill all the fields and click registration Button
Post Condition	User should confirm email.

Use Case No	1.2
Use Case Name	Login
Actor	Tutor, Guardian
Description	Allowing Tutor or Guardian to login to the system.
Precondition	Tutor, Guardian should registration into the system
Trigger	Click the “Login” Button.
Flow Of Events	➤ Two text fields to give Registration form. Email, Password. ➤ Valid email ➤ Password must be at least 8 characters long. ➤ Fill all the fields and click Login Button
Post Condition	No Post condition

Use Case No	1.3
Use Case Name	Create Profile
Actor	Tutor
Description	Allowing Tutor to create his/her profile to the system.
Precondition	Tutor should login into the system
Trigger	Click the “Update profile” Button.
Flow Of Events	Fill up all the Education information and click update Button
Post Condition	No post condition

Use Case No	1.4
Use Case Name	Create Package
Actor	Tutor
Description	Allowing Tutor to create his/her package to the system.
Precondition	Tutor should login into the system
Trigger	Click the “Create” Button.
Flow Of Events	➤ Click create package button ➤ Fill up all the input fields like name, price, area, subject, class etc
Post Condition	No post condition

Use Case No	1.5
Use Case Name	Search Job
Actor	Tutor
Description	Allowing Tutor to search job into the system.
Precondition	Tutor should login into the system
Trigger	Click the “search button” Button.
Flow Of Events	➤ Type on the search input field
Post Condition	No post condition.

Use Case No	1.6
Use Case Name	Search Tutor
Actor	Guardian
Description	Allowing Guardian to search job into the system.
Precondition	Tutor should login into the system
Trigger	Click the “search button” Button.
Flow Of Events	➤ Type on the search input field
Post Condition	No post condition.

Use Case No	1.7
Use Case Name	Make Job Post
Actor	Guardian
Description	Allowing Guardian to make job post into the system.
Precondition	Tutor should login into the system
Trigger	Click the “post” Button.
Flow Of Events	➤ Click create package button ➤ Fill up all the input fields like name, price, area, subject, class etc
Post Condition	Admin confirm the post

Table 3.1: Use case description

3.4 Logical Data Model: Logical data model describe the relation between data. Here is the logical data model of ‘tutorbd’ web application. User and package has one to many relation and tutor and tutor profile has one to one relation also user and job has one to many relation.

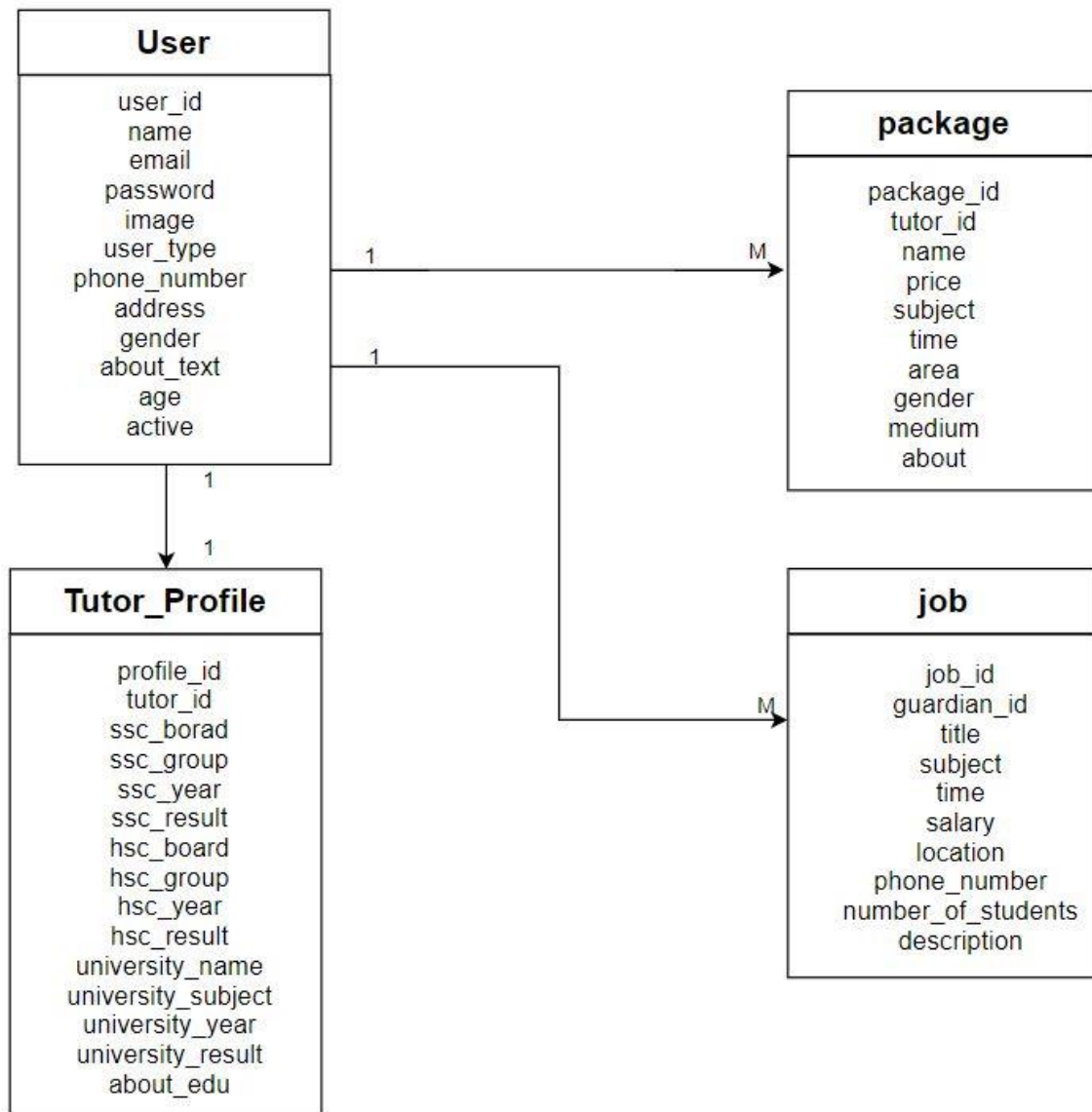


Figure 3.3: Logical data model

3.5 Design Requirements

- **Designing Tools:** In my application is use HTML, CSS, Javascript, JQuery also use css and javascript framework Bootstrap and jQuery to make application more responsive and user friendly.
- **Architecture Design:**
 - User come to the browser and type tutorBd.com
 - Browser send request to server for the web page
 - Server fetch data from database and send to the browser
 - User see the web page to brows

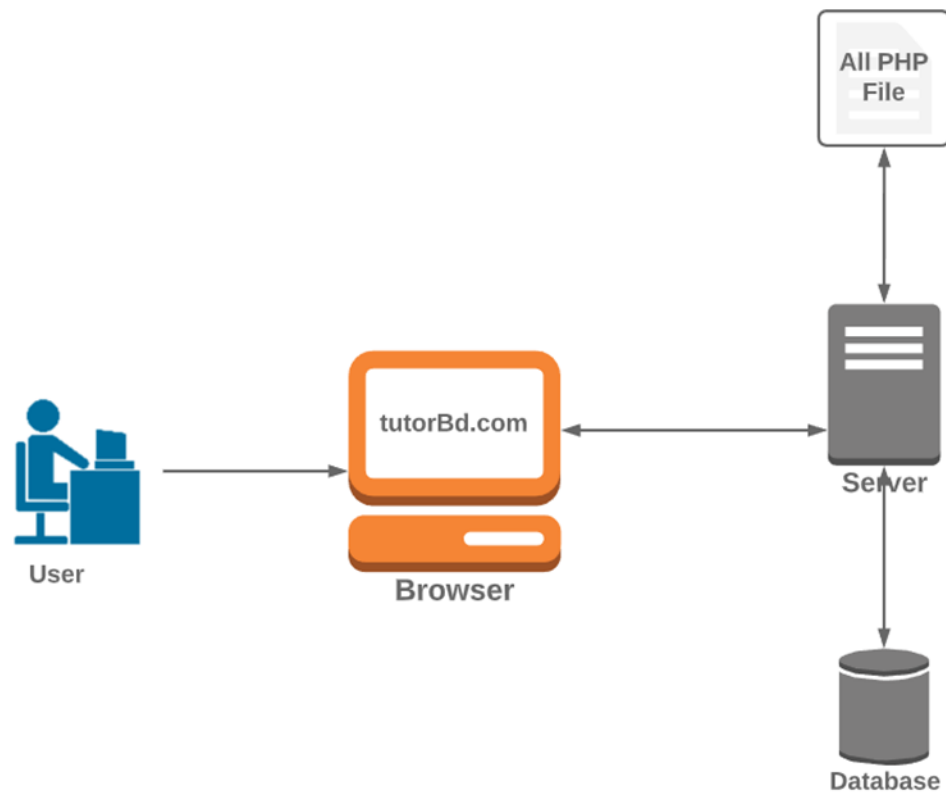


Figure 3.4: Architecture Design

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design Front-end design is user interface. Front-end design is the only think that a user can visually see. To develop a front-end design a developer use many programming language or markup language. In this project I used HTML, CSS, Bootstrap, JavaScript [4].

- **HTML & CSS:** Using HTML and CSS I build and design the layout of this project.
- **BOOSTRAP:** Using Bootstrap I make the website responsive so that all device user can use the application easily;
- **JAVASCRIPT:** JavaScript made my project interactive. All the click event, loading event build by javascript.

Front-end Design screenshots:

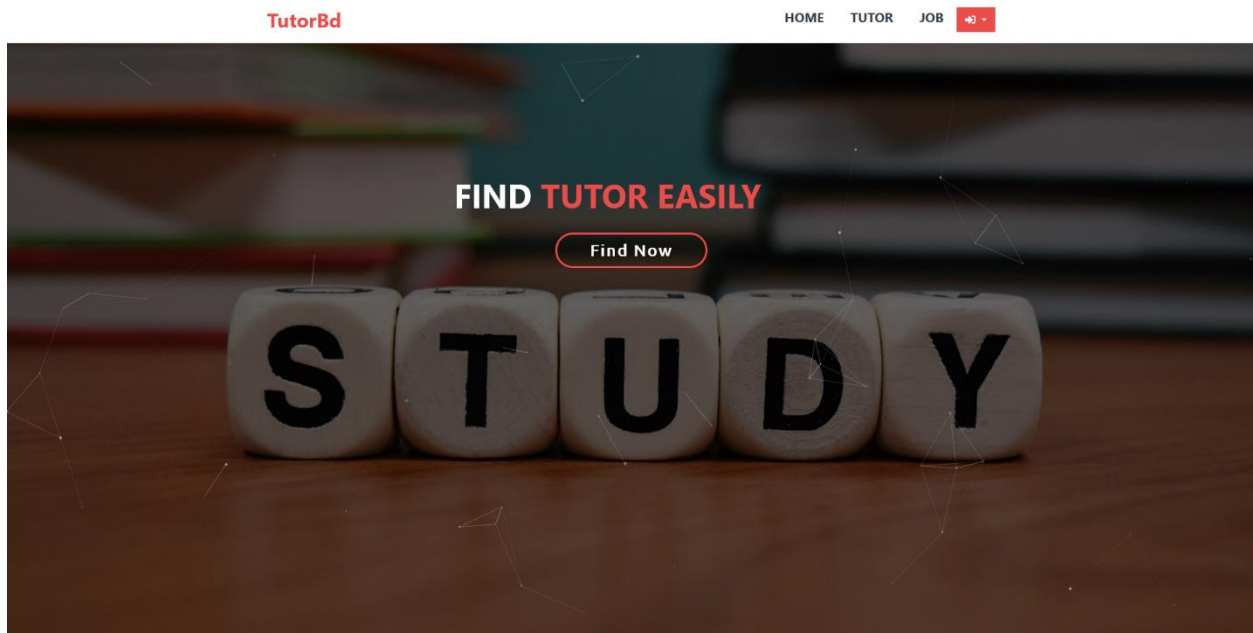


Figure 4.1.1: Index page

Top Rated Tutor

	Name : Nasir Khan Age : 23 Gender : Male Address : Dhanmondi 15, Dhaka 1209 Phone : 01637017926 Email : user1@gmail.com		Name : Nasir Khan - 3 Age : 20 Gender : Male Address : Dhaka, Dhanmondi2 Phone : 01637017922 Email : user5@gmail.com		Name : Nasir Khan - 14 Age : 20 Gender : Male Address : Dhaka, Dhanmondi13 Phone : 016370179213 Email : user16@gmail.com
	Name : Nasir Khan - 15 Age : 20 Gender : Female Address : Dhaka, Dhanmondi14 Phone : 016370179214 Email : user17@gmail.com		Name : Nasir Khan - 18 Age : 20 Gender : Female Address : Dhaka, Dhanmondi17 Phone : 016370179217 Email : user20@gmail.com		Name : Nasir Khan - 19 Age : 20 Gender : Female Address : Dhaka, Dhanmondi18 Phone : 016370179218 Email : user21@gmail.com
	Name : Nasir Khan - 25 Age : 20 Gender : Male Address : Dhaka, Dhanmondi24 Phone : 016370179224 Email : user27@gmail.com		Name : Nasir Khan - 27 Age : 20 Gender : Male Address : Dhaka, Dhanmondi26 Phone : 016370179226 Email : user29@gmail.com		Name : Nasir Khan - 30 Age : 20 Gender : Male Address : Dhaka, Dhanmondi29 Phone : 016370179229 Email : user32@gmail.com

Recent Job Post

Need English teacher for class 5 Class : i to Xii Salary : 5000 Tk Address : Dhanmondi 15	Need Math teacher for class 5 Class : i to Xii Salary : 5000 Tk Address : Dhanmondi 15	Need Bangla teacher for class 5 Class : i to Xii Salary : 5000 Tk Address : Dhanmondi 15
Need English teacher for class 5 Class : i to Xii Salary : 5000 Tk Address : Dhanmondi 15	Need Science teacher for class 8 Class : i to Xii Salary : 5000 Tk Address : Dhanmondi 15	Need Physics teacher for class 11-12 Class : i to Xii Salary : 5000 Tk Address : Dhanmondi 15
Need Math teacher for class 10 Class : i to Xii Salary : 5000 Tk Address : Dhanmondi 15	Need English teacher for class 5 Class : i to Xii Salary : 5000 Tk Address : Dhanmondi 15	Need Bangla teacher for class 9 Class : i to Xii Salary : 5000 Tk Address : Dhanmondi 15

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Feedback

Onik Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley	Nasir Khan Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley	Noman Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley
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Figure 4.1.2: Index page

Personal information



Name Nasir Khan - 20
Gender Male
Age 20
Phone 016370179219

Current Address Dhaka, Dhanmondi19
Permanent Address Laxmipur
Email user22@gmail.com

Educational information

SSC

Year 2009
Board Dhaka
Group Science
Result 4.98

HSC

Year 2012
Board Dhaka
Group Science
Result 5.00

University

Name Dhaka University
Year Running
Subject Mathematics
Result Running

About my education

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Eius tenetur doloreque dignissimos dolores quae. Dignissimos.

Package

Basic

2500 Tk Per Month

Class iii, iv, V
Medium Bangla
Time 5PM - 7PM
Per week 3 Days
Gender Male
Subject 3 Subject
Subject List Bangla, English, Mathematics

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Impedit vitae, aspernatur earum adipisci voluptatibus at.

Created Date 12-10-2019

Popular

4000 Tk Per Month

Class V To X
Medium Bangla, English
Time 4PM - 8PM
Per week 5 Days
Gender Male,Femail
Subject All Subject
Subject List All Subject

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Impedit vitae, aspernatur earum adipisci voluptatibus at.

Created Date 12-10-2019

Advance

5000 Tk Per Month

Class X, Xi, Xii
Medium Bangla, English
Time Any Time
Per week 3 Days
Gender Male,Femail
Subject All Scienc Subject
Subject List All Science

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Created Date 12-10-2019

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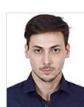
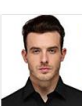
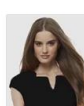
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Figure 4.2: Profile page

All Tutor (Search By Name, Location, Gender)

Search Tut



 Name : Nasir Khan - 30 Age : 20 Gender : Male Address : Dhaka, Dhanmondi29 Phone : 016370179229 Email : user32@gmail.com	 Name : Nasir Khan - 29 Age : 20 Gender : Male Address : Dhaka, Dhanmondi28 Phone : 016370179228 Email : user31@gmail.com	 Name : Nasir Khan - 28 Age : 20 Gender : Male Address : Dhaka, Dhanmondi27 Phone : 016370179227 Email : user30@gmail.com
 Name : Nasir Khan - 27 Age : 20 Gender : Male Address : Dhaka, Dhanmondi26 Phone : 016370179226 Email : user29@gmail.com	 Name : Nasir Khan - 26 Age : 20 Gender : Male Address : Dhaka, Dhanmondi25 Phone : 016370179225 Email : user28@gmail.com	 Name : Nasir Khan - 25 Age : 20 Gender : Male Address : Dhaka, Dhanmondi24 Phone : 016370179224 Email : user27@gmail.com
 Name : Nasir Khan - 24 Age : 20 Gender : Male Address : Dhaka, Dhanmondi23 Phone : 016370179223 Email : user26@gmail.com	 Name : Nasir Khan - 23 Age : 20 Gender : Male Address : Dhaka, Dhanmondi22 Phone : 016370179222 Email : user25@gmail.com	 Name : Nasir Khan - 22 Age : 20 Gender : Male Address : Dhaka, Dhanmondi21 Phone : 016370179221 Email : user24@gmail.com
 Name : Nasir Khan - 21 Age : 20 Gender : Male Address : Dhaka, Dhanmondi20 Phone : 016370179220 Email : user23@gmail.com	 Name : Nasir Khan - 20 Age : 20 Gender : Male Address : Dhaka, Dhanmondi19 Phone : 016370179219 Email : user22@gmail.com	 Name : Nasir Khan - 19 Age : 20 Gender : Female Address : Dhaka, Dhanmondi18 Phone : 016370179218 Email : user21@gmail.com
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 Name : Nasir Khan - 3 Age : 20 Gender : Male Address : Dhaka, Dhanmondi2 Phone : 01637017922 Email : user5@gmail.com	 Name : Nasir Khan - 2 Age : 20 Gender : Female Address : Dhaka, Dhanmondi1 Phone : 01637017921 Email : user4@gmail.com	 Name : Nasir Khan - 1 Age : 20 Gender : Female Address : Dhaka, Dhanmondi0 Phone : 01637017920 Email : user3@gmail.com

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Figure 4.3: All Tutor

All Jobs (Search By Title, Subject Name)

Type Medium



Need English teacher for class 5

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need Math teacher for class 5

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need Bangla teacher for class 5

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need English teacher for class 5

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need Science teacher for class 8

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need Physics teacher for class 11-12

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need Math teacher for class 10

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need English teacher for class 5

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need Bangla teacher for class 9

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need English teacher for class 5

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need Math teacher for class 9

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need Math teacher for class 8

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need English teacher for class 5

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need Physics teacher for class 11

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need Bangla teacher for class 5

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need a tutor for Class 4 student

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need a tutor for Class 10 English

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need a tutor for Class 11 Physics

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need a tutor for Class 4 student

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need a tutor for Class 8 English

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need a tutor for Class 4 student

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need a tutor for Class 11-12 Physics

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need a tutor for Class 4 student

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need a tutor for Class 3 student

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need a tutor for HSC student

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need a tutor for Class 1 student

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need a tutor for Class 4 student

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need a tutor for Class 10 Chemistry

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need a tutor for Class 4 student

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Need a tutor for HSC student

Class : i to Xii
Salary : 5000 Tk
Address : Dhanmondi 15

Previous **1** 2 3 Next

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Figure 4.4: All Jobs

Need Math teacher for class 5

Tuition Infotmation

Class i to Xii
Subject All Subject
Salary 5000 tk
Day/Week 4
Time Any Time
Medium Bangla
S. Gender Male

Contact Infotmation

Guardian [Guardian-5](#)
Phone 1 016370179258
Phone 2 016370179258
Location Dhanmondi 15

Description

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Itaque iusto dolorum temporibus blanditiis. Quia deserunt, animi repudiandae quae dolores perspiciatis corporis tempora, eveniet, quis harum porro. Aspernatur, quidem, culpa? Voluptas adipisci a eos soluta ab corrupti eveniet autem alias velit.

Date: 2019-10-22

Relate Jobs

this is job title

Salary 5000 tk || **Day Par Week** 4Days || **Subject** Bangla,English || **Medium** Bangla || **Class** Xi

[More Details](#)

Need a tutor for English student

Salary 5000 tk || **Day Par Week** 4Days || **Subject** All Subject || **Medium** Bangla || **Class** i to Xii

[More Details](#)

Need a tutor for Islamic Studies student

Salary 5000 tk || **Day Par Week** 4Days || **Subject** All Subject || **Medium** English || **Class** i to Xii

[More Details](#)

Need a tutor for SSC student

Salary 5000 tk || **Day Par Week** 4Days || **Subject** All Subject || **Medium** Bangla || **Class** i to Xii

[More Details](#)

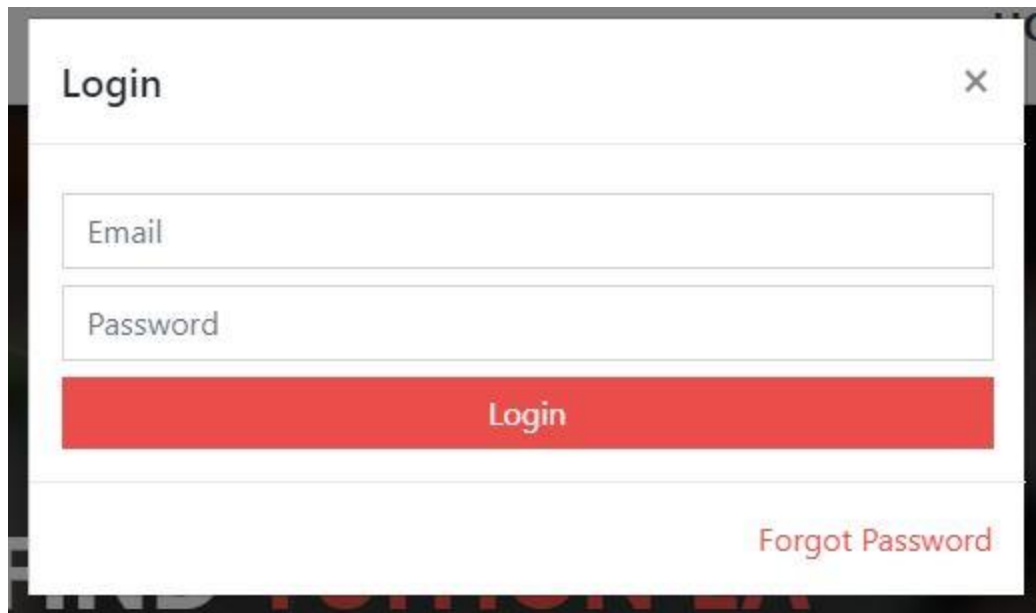
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Figure 4.5: Single job page

A login form with a title bar labeled "Login" and a close button (X). It contains two input fields: "Email" and "Password". Below these fields is a red button labeled "Login". At the bottom right, there is a link labeled "Forgot Password".

Login

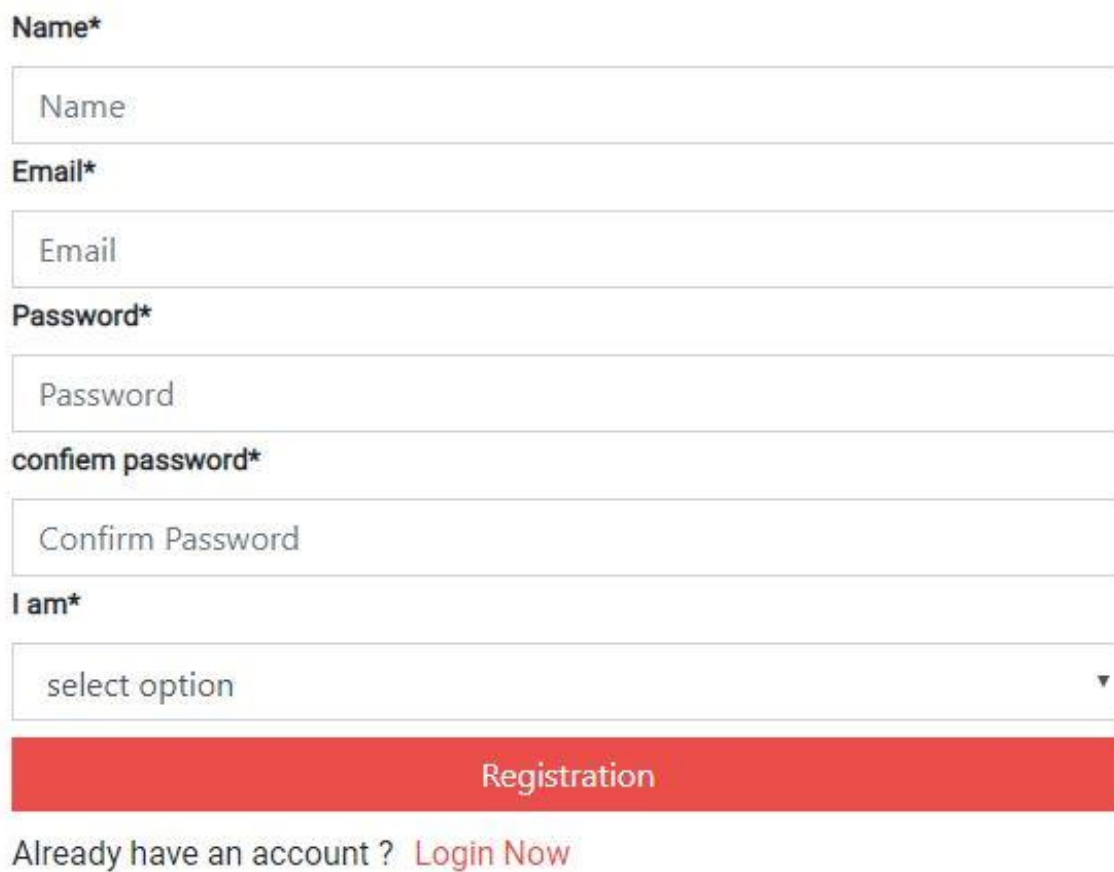
Email

Password

Login

[Forgot Password](#)

Figure 4.6: Login Form

A registration form with the following fields: "Name*" (text input), "Email*" (text input), "Password*" (text input), "confirm password*" (text input), and "I am*" (dropdown menu with "select option" and a downward arrow). Below these fields is a red button labeled "Registration". At the bottom, there is a link labeled "Already have an account ? Login Now".

Name*

Name

Email*

Email

Password*

Password

confirm password*

Confirm Password

I am*

select option ▼

Registration

Already have an account ? [Login Now](#)

Figure 4.7: Registration Form

Update Personal Information

Name*

Nasir Khan - 1

Age*

20

Current Address*

Dhaka, Dhanmondi0

Image*

Choose File

No file chosen

Gender*

Female

Phone*

01637017920

Permanent Address*

Laxmipur

Update

Figure 4.9: Information Update

Create Package

Name*

Student's Gender*

Male

Medium*

Bangla

Time*

Example: Any time, 5PM - 7PM

Number Of Subject*

Short Description*

Write Short Description About Your Package

Price*

Class*

Example: class X,Xi ...

Day Per week*

Example Three,Four ...

Area*

Example: Dhanmmondi

Name Of Subjects*

Example: All Subject, English, ICT ...

Create

Figure 4.10: Package Create

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17

Post a job

×

Title*

Salary*

Student's Gender*

Male ▾

Class*

Example: class X,Xi ...

Medium*

Bangla ▾

Day Per week*

Example Three,Four ...

Time*

Example: Any time, 5PM - 7PM

Number Of Subject*

Name Of Subjects*

Example: All Subject, English, ICT ...

Location*

Example: Dhanmmondi

Phone 1*

Example: Dhanmmondi

Phone 2

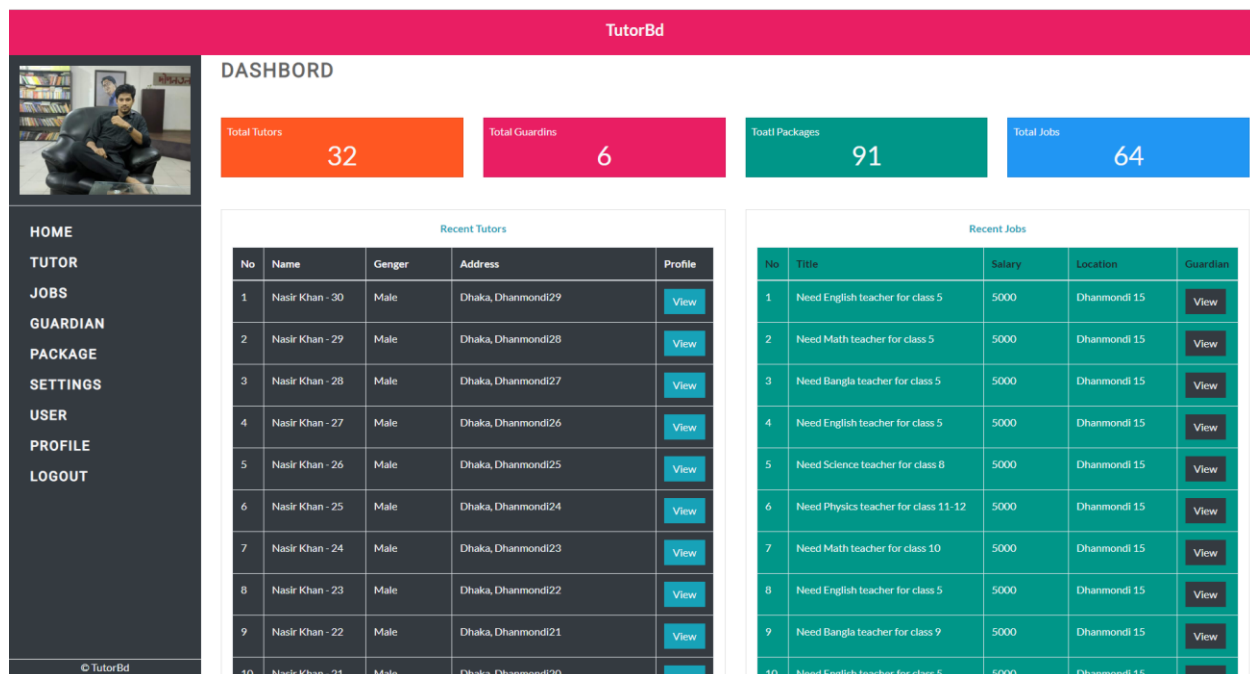
Example: Dhanmmondi

Short Description*

Write Short Description About Your Package

Update

Figure 4.11: Job Post Form



4.2 Back-end Design Back-end design is only for developer. To develop a project a developer use many programming language all of them are back-end design's part. Some time it also called server side development. In this project I used PHP (OOP), MySQL and AJAX request to develop back-end design [5].

- **PHP (OOP)**

PHP is server side language. That means it executed on the server. So if we want to work on

PHP we need a server. In my project I user XAMPP server to executed PHP.

To display something in PHP the syntax is 'echo'.

Object Oriented Programming (OOP) is a techniques of development. Programmers organize data to creating an object. Suppose 'tutor' is an object, so tutor has name, email, password, age all of them are attributes and a tutor can update profile, create package, search job, all of them are method [2].

- **MYSQL**

In this project I used MYSQL for database management, it is the most popular and easy structured query language (SQL) [3].

- **Relation Make Between Two Tables**

If we want to make relation between two tables we have to use primary key and foreign key.

- **Primary Key:** Primary key is the unique column of a table. Using this column we can easily understand the difference between tow row, In my project I user 'id' column for primary key, like tutor_id, guardian_id, package_id, job_id etc.
- **Foreign Key:** If we use a table's primary key to another table as a normal column then the column called foreign key. For example: if we use tutor_id column to package table then the tutor_id will be called foreign key. Using this key we can make a relation between tutor and package table

- **DFD (level 0 and 2)**

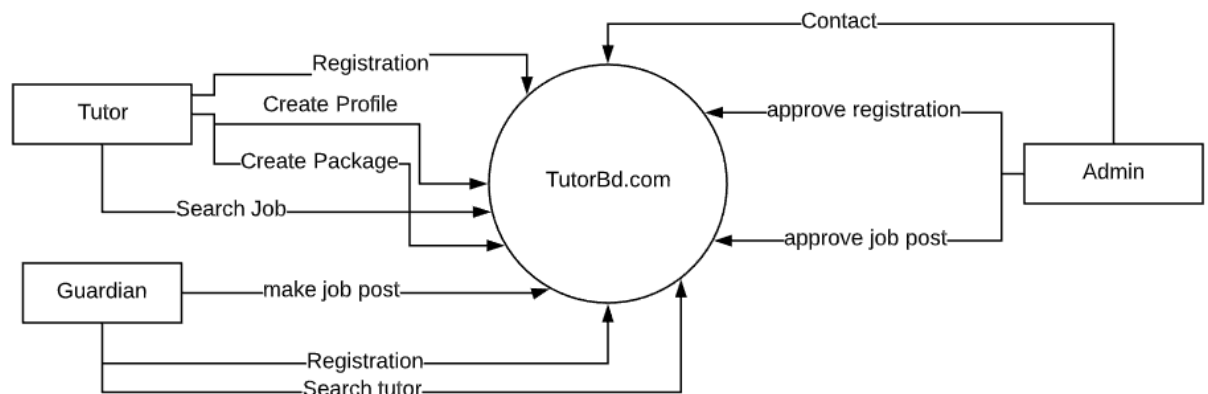


Figure 4.14: DFD level 0

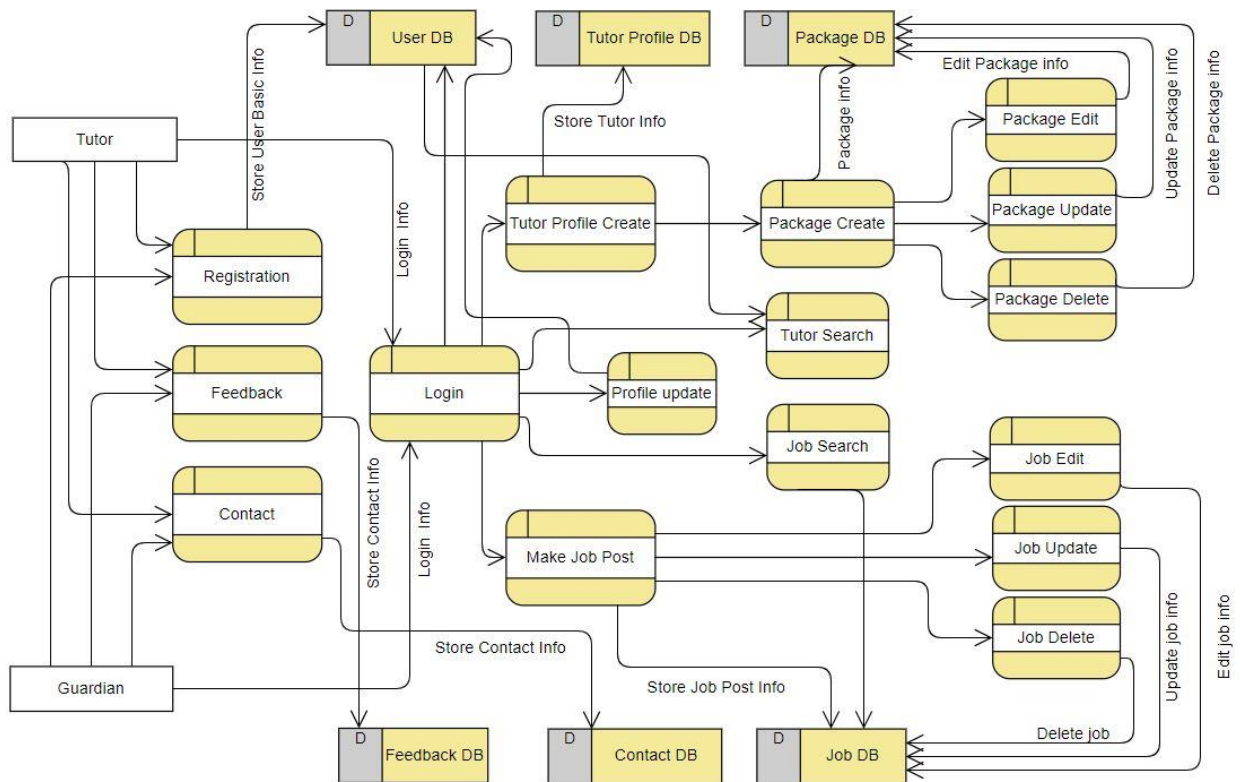


Figure 4.14: DFD level 2

4.3 Interaction Design and UX: Interaction and UX design is the even that a user can occur. In this project I use javascript for interactive design also use AJAX request to interact with back-end [3].

4.4 Implementation Requirements: this is a web-based project that's why to implement this project I need all the web technology.

- A computer
- Code editor
- Server to execute server side language (PHP)
- Necessary library like jquery and bootstrap

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

- Entity Relationship Diagram:

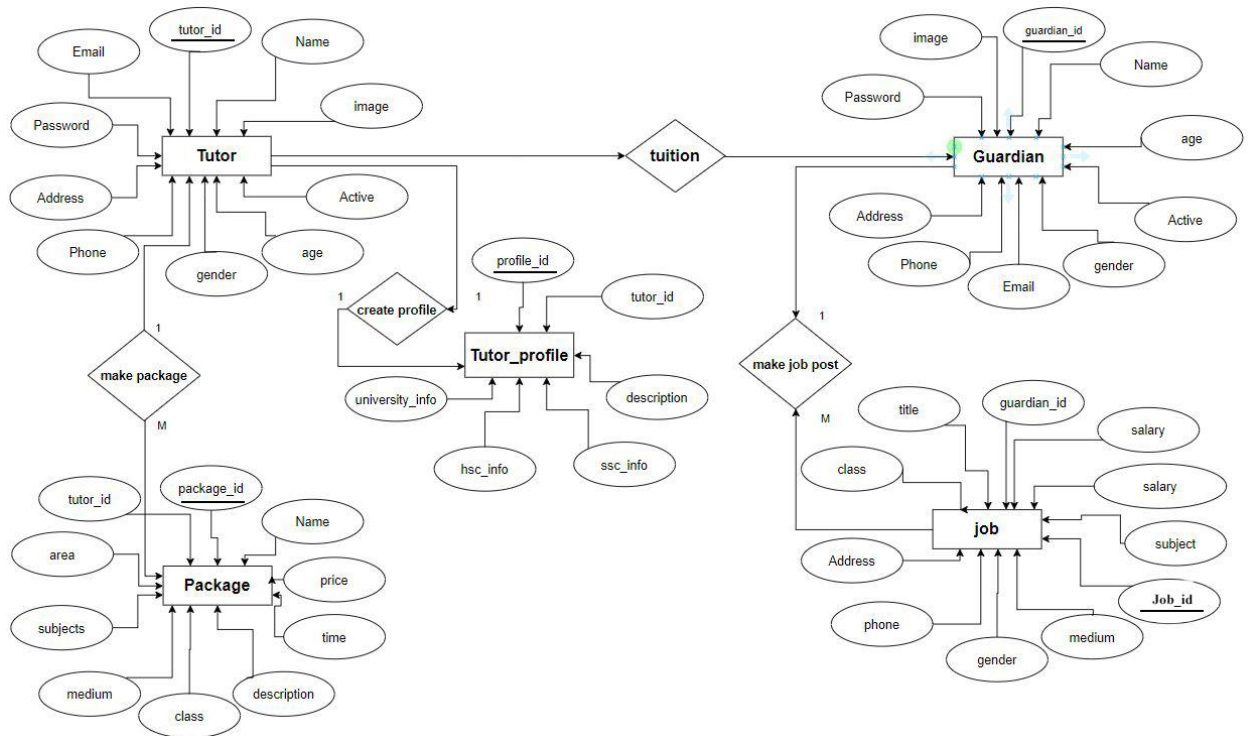


Figure 5.1: Entity Relationship Diagram

- Database table list:

Table	Action
☐ about_info ★	Browse Structure Search Insert Empty Drop
☐ education ★	Browse Structure Search Insert Empty Drop
☐ feedback ★	Browse Structure Search Insert Empty Drop
☐ job ★	Browse Structure Search Insert Empty Drop
☐ package ★	Browse Structure Search Insert Empty Drop
☐ profile ★	Browse Structure Search Insert Empty Drop
☐ user ★	Browse Structure Search Insert Empty Drop
☐ web_info ★	Browse Structure Search Insert Empty Drop
8 tables	Sum

Figure 5.2: All database

#	Name	Type	Collation	Attributes	Null	Default
☐ 1	id 🔑	int(11)			No	None
☐ 2	name	varchar(255)	latin1_swedish_ci		No	None
☐ 3	email	text	latin1_swedish_ci		No	None
☐ 4	password	text	latin1_swedish_ci		No	None
☐ 5	age	varchar(99)	latin1_swedish_ci		No	None
☐ 6	profile_picture	varchar(255)	latin1_swedish_ci		No	default_pic.jpg
☐ 7	current_address	text	latin1_swedish_ci		No	None
☐ 8	permanent_address	text	latin1_swedish_ci		No	None
☐ 9	active	int(11)			No	0
☐ 10	token	text	latin1_swedish_ci		No	None
☐ 11	gender	varchar(255)	latin1_swedish_ci		No	None
☐ 12	rating	double			No	0
☐ 13	phone	varchar(100)	latin1_swedish_ci		No	None
☐ 14	date_time	varchar(100)	latin1_swedish_ci		No	None
☐ 15	about_text	text	latin1_swedish_ci		No	None
☐ 16	user_type	varchar(255)	latin1_swedish_ci		No	tutor
☐ 17	show_home	int(11)			No	0

Figure 5.3: User Table

#	Name	Type	Collation	Attributes	Null	Default
1	id 🔑	int(11)			No	None
2	tutor_id	int(11)			No	None
3	name	varchar(255)	latin1_swedish_ci		No	None
4	price	double			No	None
5	day_per_week	varchar(255)	latin1_swedish_ci		No	None
6	time	varchar(100)	latin1_swedish_ci		No	None
7	student_gender	varchar(100)	latin1_swedish_ci		No	None
8	class	varchar(255)	latin1_swedish_ci		No	None
9	description	text	latin1_swedish_ci		No	None
10	area	varchar(255)	latin1_swedish_ci		No	None
11	number_of_subject	varchar(10)	latin1_swedish_ci		No	None
12	subject_list	text	latin1_swedish_ci		No	None
13	medium	varchar(255)	latin1_swedish_ci		No	None

Figure 5.4: Tutor_profile table

#	Name	Type	Collation	Attributes	Null	Default	C
1	id 🔑	int(11)			No	None	
2	guardian_id	int(11)			No	None	
3	title	text	latin1_swedish_ci		No	None	
4	class	varchar(100)	latin1_swedish_ci		No	None	
5	day_per_week	varchar(255)	latin1_swedish_ci		No	None	
6	time	varchar(100)	latin1_swedish_ci		No	None	
7	salary	varchar(255)	latin1_swedish_ci		No	None	
8	description	text	latin1_swedish_ci		No	None	
9	active	int(11)			No	0	
10	date	timestamp		on update CURRENT_TIMESTAMP	No	CURRENT_TIMESTAMP	
11	location	varchar(255)	latin1_swedish_ci		No	None	
12	phone_1	varchar(20)	latin1_swedish_ci		No	None	
13	phone_2	varchar(20)	latin1_swedish_ci		No	None	
14	subject_list	text	latin1_swedish_ci		No	None	
15	medium	varchar(100)	latin1_swedish_ci		No	None	
16	student_gender	varchar(100)	latin1_swedish_ci		No	None	
17	number_of_subject	varchar(99)	latin1_swedish_ci		No	None	

- **Database connection (PHP):**

To connect database to our project we use mysqli_connect function in PHP file.

This function take four parameter host name, user name, password of database, database name.

```
mysqli_connect("host name","username","password","database name");
```

- **MySQL Query make method (Insert):**

```
// insert query
function make_insert_query($tbl,$array){

    $query = "insert into ".$tbl." (";
    foreach ($array as $key => $value) {
        $query .= $key.", ";
    }
    $query = substr_replace($query, "", -1);

    $query .= ") values(";
    foreach ($array as $key => $value) {
        if(is_int($value) || is_double($value)){
            $query .= $value.", ";
        }else{
            $value = $this->escape_string($value);
            $query .= "".$value.", ";
        }
    }
    $query = substr_replace($query, "", -1);
    $query .= ")";
    return $query;
}
```

5.2 Implementation of Front-end Design: To implement front-end design I use HTML, CSS and javascript [1].

- **Basic html code;**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>tutorbd</title>
    <!--css link -->
    <link rel="stylesheet" href="style.css">
</head>
<body>
    <header>
        <nav>
            <ul>
                <li><a href="">Tutor</a></li>
```

```

        <li><a href="">Job</a></li>
        <li><a href="">Action</a></li>
    </ul>
</nav>
<div id="hero">
    <!-- hero text -->
</div>
</header>

<section id="conetnt">
    <!-- all content goes here -->
</section>
<footer>
    <p>CopyRight&copy; tutorBD</p>
</footer>
<!--javascript -->
<script src=""></script>
</body>
</html>

```

5.3 Implementation of Interactions: For interactive design I used javascript (Jquery)

- **Some js code (search bar):**

```

$("#tutor-search-typed").mouseover(function(){
    $(this).hide();
    $("#tutor-search").show();
})
$("#tutor-search").mouseleave(function(){
    $("#tutor-search").hide();
    $("#tutor-search-typed").show();
})

```

5.4 Testing Implementation:

Test case	Input	Expected output	Actual output	Result	Test on
1.Font-end design	Tested browsers- Firefox Google Chrome Opera Safari	Display all the page successfully	Display all the page successfully	Passed	10-22-19
2.Registration form	Input name, email, password, User type	Registration successfully	Registration successfully	Passed	10-22-19
3. login	Input email and password	Login successfully	Login successfully	Passed	10-22-19
4.create profile	Input all personal information	Created successfully	Created successfully	Passed	10-22-19
5.Create package	Input all package information in the package create form	Created successfully	Created successfully	Passed	10-22-19
6.Create job post	Input all job information in the job create form	Created successfully	Created successfully	Passed	10-22-19
7.Tutor Search	Input in the search bar	Provide valid output	Provide valid output	Passed	10-22-19
8.Job Search	Input in the search bar	Provide valid output	Provide valid output	Passed	10-22-19
9.package edit	Click on edit button	Show all info to edit form	Show all info edit form	Passed	10-22-19

Test case	Input	Expected output	Actual output	Result	Test on
10.job edit	Click on edit button	Show all info to edit form	Show all info edit form	Passed	10-22-19
11. package update	Click to the update button	Package update success	Package update success	Passed	10-22-19
12. Job update	Click to the update button	job update success	job update success	Passed	10-22-19
13.package delete	Click to the delete button	package delete success	package delete success	Passed	10-22-19
14.job delete	Click to the delete button	job delete success	job delete success	Passed	10-22-19
15. logout	Click logout button	Logout success show index page	Logout success show index page	Passed	10-22-19

Table 5.1: Test case table

5.5 Test Results and Reports: Test case result is positive. All the test case passed, expected outcome and actual outcome are same.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion: The project (web application) has been successfully implemented. After uploading the application in live server it's all features and functionalities works fine. This application is responsive and user friendly also efficient enough to use.

- **Limitations**

My application has some limitation. I will overcome them in future. Some limitations are:

- it is only web based application.
- Some features need to be include such as rating and review system of tutor and guardian.
- Small data storage

6.2 Scope for Further Developments:

- My mission is to make this project for all platform like windows, IOS and android.
- Use more large data storage
- I will add more additional features to make it more dynamic and user friendly.

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