

# United International University



## Report On

**ProTutor.BD**

### **Submitted to**

Dr. Suman Ahmmed  
Associate Professor, CSE, UIU

### **Submitted by**

| Name                       | Id No.     |
|----------------------------|------------|
| Rayhan Al Shorif           | 0122410022 |
| Iftekharul Islam           | 0122410013 |
| F. M. Shefat Hossain Niloy | 0122310011 |
| Arnab Protim Mondal        | 0122320014 |

Date of Submission: 10<sup>th</sup> February, 2024

# **ProTutor.BD**

## **Contents**

|   |   |
|---|---|
| 1. Introduction: .....                                | 3 |
| 2. Objectives:.....                                   | 3 |
| 3. Methodologies: .....                               | 3 |
| 4. Research and System Study: .....                   | 4 |
| 5. Specification Analysis: .....                      | 6 |
| 6. Features List (Functional & Non-Functional): ..... | 6 |
| 7. UML Diagrams: .....                                | 7 |
| 8. UI Design: .....                                   | 7 |
| 9. Tentative Implementation Schedule/Milestone: ..... | 7 |
| 10. Conclusions and Recommendations:.....             | 7 |
| 11. References: .....                                 | 7 |

## **1. Introduction:**

Welcome to "**ProTutor.BD**", your premier destination for personalized academic support in Bangladesh! Tutoring services can be incredibly helpful for students looking to enhance their academic skills or prepare for exams. Although after searching many places for academic help in personal life we find a premium or tutor of our choice. It takes us a lot of time and we have to deal with various problems in life starting from studies. In this digital era, we have created these products to find a solution to find our favorite teacher without wasting time.

## **2. Objectives:**

Although the main objective of this project is to facilitate the learning process of the students. We know that a tutor is a lifesaver for a child's education. "**ProTutor.BD**" suggests a connection to education and guidance. However, it implies a sense of leading or piloting through the educational journey, which aligns with the idea of guiding and supporting students. It involves helping the student understand concepts, acquire new skills, and improve their overall academic performance. Tutors often provide personalized support tailored to a student's specific needs. Tutors aim to build the student's confidence in their abilities. By providing guidance, positive reinforcement, and constructive feedback, tutors help students feel more capable and confident in their academic pursuits. For everything, we have taken the initiative so that every parent can find a good and decent teacher to educate their children through our plot form.

## **3. Methodologies:**

Speaking of methodology, we will generally follow a few things in providing the structural framework for our product. Addressing aspects such as tutor recruitment or hire a tutor, proper training, regular supervision as well as evaluation is very necessary for this product which we are aiming for more. Here's a breakdown of key areas to consider:

### **i. Tutor Recruitment and Selection:**

- Determine the criteria for selecting tutors, including educational background, experience, and subject expertise.
- Develop recruitment strategies to attract qualified tutors, such as advertising through educational institutions, online platforms, or professional networks.
- Conduct interviews or assessments to evaluate candidates' suitability for tutoring roles.

### **ii. Proper Training and Guidance:**

- Provide comprehensive training to tutors on effective teaching methodologies, communication skills, and subject-specific content.
- Offer workshops or seminars to enhance tutors' understanding of pedagogical principles and learner-centered approaches.
- Provide ongoing professional development opportunities to keep tutors updated on best practices and educational trends.

### **iii. Monitoring and Evaluation:**

- Develop performance metrics and evaluation criteria to assess tutors' effectiveness in supporting student learning.
- Implement systems for collecting feedback from students, parents, and other stakeholders to evaluate the quality of tutoring services.
- Use data-driven insights to identify areas for improvement and make informed decisions about tutor allocation and resource allocation.

### **iv. Recognition and Incentives:**

- Recognize and reward tutors for their contributions and achievements in supporting student learning and academic success.
- Offer incentives or bonuses for tutors who demonstrate exceptional performance, such as high student satisfaction ratings or improved academic outcomes.
- Foster a positive and supportive work environment that values the efforts and dedication of tutors.

### **v. Continuous Improvement:**

- Regularly review and refine tutor management policies, procedures, and practices to ensure alignment with organizational goals and educational standards.
- Solicit feedback from tutors, students, and other stakeholders to identify areas for improvement and implement necessary changes.
- Stay abreast of emerging trends and innovations in education to adapt and enhance tutor management methodologies accordingly.

## **4. Research and System Study:**

### **i. Product's Benchmark:**

Benchmarking education-related systems like “**ProTutor.BD**” involves evaluating the functionality, features, and capabilities of educational technology in its context. We have selected some of the top-tier products on the market to benchmark our products. There are a few products currently running that we want to benchmark with and test our product's capabilities. List of selected products from the ongoing marketplace: [tutorsheba.com](http://tutorsheba.com), [Bdtutors.com](http://Bdtutors.com), [caretutors.com](http://caretutors.com), [dhakatutors.com](http://dhakatutors.com), [deshtutor.com](http://deshtutor.com) etc.

## ii. Research Paper Study:

| Author                    | Year | Contribution   | Difference                                 |
|---------------------------|------|--|--|
| Hutanu et al [1]          | 2017 | Proposed a CML-plus platform to help both researchers, engineers and tutors to have a face-to face online interaction and easy learning experience over any mobile devices.                                  | Not for general students tutor searching   |
| Mohammad et al [2]        | 2013 | Proposed an e-learning process to focus on synchronous (e.g. using presentation, group formation, live interaction) and asynchronous (e.g. using CD-ROMs, downloading education materials) learning methods. | Not a tutor or tuition searching platform  |
| Dan Lo and Larry Wang [3] | 2011 | Proposed an online tutoring system with instant responses. This study shows how online tutoring is effective and what is the best practice to achieve the goal.  | Only for professionals and online tutoring |
| Govaerts et al [4]        | 2014 | Proposed an online tutoring platform Go-Lab to help new tutors to get help from experienced tutor and become an expert.  | Not designed for students                  |

## iii. Questionnaire for This Product:

- Why do you want to build this product?
- How much logic is there in this approach to learning system development?
- By adapting to modern technology, how much education will be able to progress through it?
- In rural areas, is this system even possible to reach?
- What steps can be taken to cover the rural area in the future?

## 5. Specification Analysis:

### i. Benchmark Analysis:

| Features                             |          | Existing Products |              |                |                 |               |             |
|--------------------------------------|----------|-------------------|--------------|----------------|-----------------|---------------|-------------|
|                                      |          | tutorsheba.com    | bdtutors.com | caretutors.com | dhakatutors.com | deshtutor.com | our product |
| Roles                                | Admin    | ✓                 | ✓            | ✓              | ✓               | ✓             | ✓           |
|                                      | Tutor    | ✓                 | ✓            | ✓              | ✓               | ✓             | ✓           |
|                                      | Students | ✓                 | ✓            | ✓              | ✓               | ✓             | ✓           |
|                                      | Guardian |                   |              |                | ✓               |               | ✓           |
| Available Tuitions                   |          | ✓                 | ✓            | ✓              | ✓               | ✓             | ✓           |
| Payment System                       |          | ✓                 | ✓            | ✓              | ✓               | ✓             | ✓           |
| Premium Tutors Search                |          | ✓                 | ✓            | ✓              |                 | ✓             | ✓           |
| Affiliate Partner                    |          | ✓                 | ✓            |                |                 |               | ✓           |
| Notifications System                 |          | ✓                 |              | ✓              |                 |               | ✓           |
| FAQ                                  |          | ✓                 | ✓            | ✓              | ✓               |               | ✓           |
| Contact Us                           |          | ✓                 | ✓            | ✓              | ✓               | ✓             | ✓           |
| Tutor Request                        |          | ✓                 | ✓            |                |                 |               | ✓           |
| Quick Chat                           |          | ✓                 | ✓            | ✓              | ✓               | ✓             | ✓           |
| Online tuition                       |          | ✓                 |              |                |                 |               | ✓           |
| Review & Rating                      |          | ✓                 | ✓            | ✓              | ✓               | ✓             | ✓           |
| About us                             |          | ✓                 | ✓            | ✓              | ✓               | ✓             | ✓           |
| Default auto-search                  |          |                   |              |                |                 |               | ✓           |
| Default auto-suggest                 |          |                   |              |                |                 |               | ✓           |
| Blog Post                            |          |                   |              |                |                 |               | ✓           |
| Download Books                       |          |                   |              |                |                 |               | ✓           |
| Suggested nearest tutors or students |          |                   |              |                |                 |               | ✓           |
| Provides suggestions                 |          |                   |              |                |                 |               | ✓           |

## 6. Features List (Functional & Non-Functional):

- ✓ Join us as a **student**, **guardian**, and **tutor**. (Roles)
- ✓ Hire the nearest Tutor. (default auto suggested)
- ✓ Default auto suggested nearest tutor for a student or a guardian.
- ✓ Default auto suggested student for a tutor.
- ✓ Posted blog ~ approving/reviewing system through author (admin).
- ✓ Payment System (Bkash, Rocket, Nagad, Upay) ~ version 1
- ✓ Searching system based on tutor or student but default auto search based on user location/zone.
- ✓ Notification system
- ✓ Real time communication (chat) with tutor ⇔ admin ⇔ student/guardian.
- ✓ Provides suggestions, assignment help and download books.

- ✓ There will be a custom way to express a tutor's fee or a teaching fee.
- ✓ Available tutor list and nearest tutor's list (using map)
- ✓ Review & rating with contact us.
- ✓ Online tuition/Part time tuition & Request for a tutor.
- ✓ Frequently Asked Questions (FAQ)
- ✓ Affiliate Partner System
- ✓ About-us

## **7. UML Diagrams:**

## **8. UI Design:**

## **9. Tentative Implementation Schedule/Milestone:**

## **10. Conclusions and Recommendations:**

## **11. References:**

### **i. Paper Based:**

- [1] Constantin Hutanu and Adrian Tulbure. High quality educational platform for online tutoring researchers and engineers. In 2017 40th International Spring Seminar on Electronics Technology (ISSE), pages 1–5. IEEE, 2017.
- [2] Nori Motlagh Mohammad, Fehrest Sara, Talebi Zahra, and Hesari Mojtaba. The study of the teacher's role and student interaction in e-learning process. In 4th International Conference on e-Learning and e-Teaching (ICELET 2013), pages 130–134. IEEE, 2013.
- [3] Dan Lo and Larry Wang. An online tutoring system with instant responses. 2011.
- [4] Sten Govaerts, Yiwei Cao, Nils Faltin, Faysal Cherradi, and Denis Gillet. Tutoring teachers-building an online tutoring platform for the teacher community. In European Summit on Immersive Education, pages 39–51. Springer, 2014.

### **ii. Information Based:**

- Benchmarking learning and teaching: Developing a method ([Link](#)).
- Tutorsheba.com (Google search engine) ([Link](#)).
- Bdtutors.com (Google search engine) ([Link](#)).
- Caretutors.com (Google search engine) ([Link](#)).
- Dhakatutors.com (Google search engine) ([Link](#)).
- Deshtutor.com (Google search engine) ([Link](#)).