

Internship Experience in Web Development and Database Management at Bangladesh Biology Olympiad

by

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*Internship report (CSE4099) submitted in partial fulfillment of the
requirements for the degree of*

Bachelor of Science in Computer Science and Engineering

Under the supervision of

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
UNIVERSITY OF LIBERAL ARTS BANGLADESH**

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DECLARATION

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I declare that this internship report entitled *Internship Experience in Web Development and Database Management at Bangladesh Biology Olympiad* is the result of my own work except as cited in the references. The internship report has not been accepted for any degree and is not concurrently submitted in candidature of any other degree.

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CERTIFICATE

This is to certify that the internship report entitled **Internship Experience in Web Development and Database Management at Bangladesh Biology Olympiad**, submitted by **Faisal Kabir Taj** (Student ID: 211014001) is a undergraduate student of the **Department of Computer Science and Engineering** has been examined. Upon recommendation by the examination committee, we hereby accord our approval of it as the presented work and submitted report fulfill the requirements for its acceptance in partial fulfillment for the degree of *Bachelor of Science in Computer Science and Engineering*.

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Date: August 21, 2025

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I am extremely thankful to my parents for their unconditional love, endless prayers and caring, and immense sacrifices for educating and preparing me for the future. I would like to say thanks to my friends and relatives for their kind support and care.

Finally, I would like to thank all the people who have supported me to complete the Internship directly or indirectly.

Faisal Kabir Taj

University of Liberal Arts Bangladesh

Date: August 21, 2025

Dedicated to
my loving Mother

– *Faisal Kabir Taj*

EXECUTIVE SUMMARY

I completed a focused 10-week internship where I turned classroom knowledge into scalable EdTech solutions for the Bangladesh Biology Olympiad. Working within the back-end and technical-operations team, I balanced feature development, database design, and platform reliability while also supporting live event operations during the National Biology Olympiad 2025. That first-line exposure helped me align technical decisions with urgent operational needs. BdBO's mission to expand biology education through outreach, training, competitions, and a BioCamp set the stage for my work: making systems more reliable and fair for thousands of students. My focus was on improving data quality, cutting repetitive admin work through automation, and delivering production-ready backend tools. I achieved this by validating registration records, strengthening scoring and audit processes, and developing two core features: a bulk certificate generator with QR verification and role-based access, and a configurable form-builder with bKash/Stripe payments and PDF receipts. This required designing solid database schemas, documenting APIs, and ensuring background jobs could handle heavy workloads without slowing user activity. The impact was clear reduced admin time, fewer data errors, auditable records for eligibility, and stronger operational resilience. Despite my limited experience with Laravel and production systems, I bridged gaps by building practice projects, using Swagger for API clarity, and setting up migrations, CI pipelines, and monitoring with teammates. Through this internship I gained practical skills in Laravel, MySQL, JWT authentication, webhook payments, PDF generation, CI/CD, and data-quality practices. Just as importantly, I grew in project ownership, team communication, and confidence delivering reliable solutions under tight deadlines.

Keywords: Laravel, OpenAPI

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Chapter 1

Introduction

1.1 Introduction

As a soon to be university graduate, this internship mattered because it let me turn classroom learning into real world impact and gave me concrete results to show future employers. My aim was to channel my passion for STEM outreach into practical tools and processes that would help BdBO reach more students while I learned to deliver useful products on real timelines. During the internship I managed and validated registration and scoring data for the National Olympiad 2025 to ensure fair, auditable selection for the BioCamp and international registration. I was also responsible for the backend of a custom form creator that let organizers design event forms, accept payments, and issue PDF receipts features that made registration and fee management far easier. In addition, I created user-friendly systems for verified certificate issuance and event management, improved operational reliability, and helped streamline workflows so educators could focus on teaching.

1.2 Objective of the internship report

This report documents what I set out to achieve, the work I completed, the challenges I faced, and the outcomes and lessons learned. Specifically, it explains how I improved data accuracy and selection fairness, reduced repetitive administrative tasks through automated tools, and strengthened operational processes. It also highlights my personal development, better communication and teamwork skills, and the confidence to deliver reliable solutions under pressure while showing how the systems I built will help BdBO support and reach more students.

Chapter 2

Background



Figure 2.1: Publication of BDBO.

The Bangladesh Biology Olympiad is a nationwide organization dedicated to sparking curiosity and developing a scientific mindset in young students. BdBO supports learners from grades 3 to 12 by producing accessible Bengali biology materials, organizing teacher-training workshops, and running outreach programs such as the BioTalk lecture series and school visits by enzymes. Through partnerships with universities, research institutes, publishers, media outlets, and sponsors, BdBO builds institutional ties that strengthen extracurricular biology education and publicize student achievements. Its mission combines competition with collaboration, inspire students, support teachers, promote inquiry-based learning and prepare a strong national team for international competition.

BdBO occupies a unique role in Bangladesh's education ecosystem by linking schools, universities, and research organizations. Regional and national events are hosted by leading institutions such as Bangladesh University of Engineering and

Technology and Bangladesh Agricultural University and advanced practical training uses facilities like the National Institute of Biotechnology. These collaborations, together with Bengali-language publications and widespread outreach, extend learning well beyond classroom syllabi and encourage many students to pursue higher study and research in biology. The Bangladesh Biology Olympiad itself is organized as a multi-stage competitive pathway. Each year BdBO runs ten Regional Biology Olympiads that feed into a National Biology Olympiad. Competitions are held in age-based categories Junior, Secondary, and Higher Secondary and the first round typically attracts 8,000 to 12,000 participants in recent years. Top scorers are invited to a 3 day residential National BioCamp that provides hands on laboratory training and intensive preparation. BdBO recognizes top performers with certificates, medals, books, and a Champion of Champions title, while also promoting participation through school outreach, seminars, and formal school invitations.

Internationally, BdBO is Bangladesh's official gateway to the International Biology Olympiad. Bangladesh joined the IBO as an observer in 2015 and first sent a full team in 2016. The four students selected from the BioCamp represent the country each year. The program's steady progress is reflected in international results earning its first IBO bronze medal in 2018, additional bronzes at the 35th IBO Kazakhstan in 2024, and three bronzes at the 36th IBO Manila, 2025. Together, BdBO's national programs, institutional partnerships, outreach materials, and international successes form an effective pipeline for spotting and preparing Bangladesh's most promising young biologists.

The purpose of my internship is to turn my passion for Science, Technology, Engineering, and Mathematics outreach into tangible products that help BdBO reach more students and make biology learning more engaging. Being in EdTech here means I can design tools and systems that scale that kind of support. I also want to grow as a web developer, add meaningful co-curricular and social activities to my CV and learn how to ship production systems under real deadlines for real users. In my role I focused on web development, database management, software engineering, user experience feedback, and technical operations. A large part of my work involved building internal tools that reduced admin time, prevented data errors, and improved the student experience so educators could focus on

teaching with zero manual formatting thanks to auto-merged names and IDs into approved templates. I designed and maintained backends, created reliable database schemas, handled deployments, monitoring, backups, and performance tuning. This internship gave me concrete skills in web development and in team working which will be very valuable experience for my future career.

Chapter 3

Scope of Work

I worked across several areas of the BdBO platform, owning both feature development and day to day operational tasks. My role combined web development, database management, software engineering, and user-facing support, so I moved between fixing urgent issues and building systems that reduced repetitive work for volunteers and staff. I checked and cleaned the data entry for student registrations for the National Bangladesh Biology Olympiad 2025 in the BdBO custom database management system. I corrected typos, standardized name and ID formats, removed duplicates, and flagged inconsistent records. I entered the marks of students that competed in the National Bangladesh Biology Olympiad 2025 into the BdBo database, and ran the sorting and calculation routines needed to produce final rankings. I helped validate the scoring pipeline and produced the data lists used to choose winners, ensuring the results were accurate and auditable. I verified required documents for BioCamp eligibility and international registration. I checked that each student had submitted necessary paperwork and flagged missing items.impact.

I built the backend for a certificate generator using Laravel and Composer, documenting the API with Swagger. The system produced regional, national, and enzyme certificates with verification QR codes and unique hashes. I implemented role-based access controls so a super admin could create custom roles and privileges such as view-only, write-only, no-edit, or full access. I developed the backend for a custom form creator that allowed users to design forms, choose field types, set dependencies, and mark fields as mandatory or optional. I implemented options for text, radio, and checkbox inputs, integrated payment processing with bKash and Stripe, and added PDF generation for payment receipts and records. Admins could view payment status, inspect submissions, and edit forms and entries when necessary. I designed database schemas, wrote migrations, and built API endpoints to support these features. I also handled deployments, basic monitoring, and backups to keep services stable, and iterated on interfaces to reduce admin time and prevent data errors. These projects gave me practical experience in building production systems used by real users under real deadlines. The work improved reliability and efficiency for BdBO's registration and administration processes and provided concrete examples I could include on my CV.

bdbo Admin

Districts

Data Download

Result Upload

Search

Welcome CUMILLA

Log off

বিডিবিও বাংলাদেশ

জীববিজ্ঞান উৎসব-২০২৫

নিবন্ধন

REGISTRATION

প্রশিক্ষণ সহযোগী



নসেজ পার্টনার



কারিগরি সহযোগী



LabAngla জীববিজ্ঞান ক্লাব

ম্যাগাজিন পার্টনার

কিআন

কখনও পুঁথি অথবা কত

প্রজ্ঞানচক্রে

বাংলাদেশ বিজ্ঞান অলিম্পিয়াড

www.bdbo.org | info@bdbo.org | FB/bdbo.org



অয়োজক

Region	National ?	Total
BARISHAL	Yes	22
BOGURA	Yes	104
CHATTOGRAM	Yes	63
DHAKA NORTH	Yes	272

Chapter 4

Internship Activities

4.1 Introduction of the Organization/Institution

Since its establishment in 2012, the Bangladesh Biology Olympiad has taken shape as a structured national institution committed to fostering deep biological insight and scientific curiosity among young learners . Functioning under the Bangladesh Biology Olympiad Committee, BdBO operates from its headquarters in Dhaka and annually orchestrates a progressive selection pathway, ten Regional Biology Olympiads leading to a National Olympiad, followed by a residential BioCamp at the National Institute of Biotechnology designed to identify and train the country's most promising biology students . Beyond exams, BdBO serves as an active science outreach entity. It publishes Bengali biology materials in partnership with Lab Bangla, runs the BioTalk seminar series, and enlists university volunteers to promote participation through school visits and media campaigns . As the official gateway to the International Biology Olympiad, BdBO completes its mission by selecting and preparing a national team each year, regularly earning international recognition for its well-trained contingent.



Figure 4.1: The Bangladesh team that won the bronze medal at the 35th International Biology Olympiad 2024 held in Kazakhstan: (from left) Ha-Meem Rahman, Faiz Ahmed (bronze medalist), Saumitra Chakraborty (jury), Raisa Fabiha Jannat, and Swapna Mondol.

4.2 Work Accomplishment

- Week 1: I familiarized myself with the organization's in-house software and observed how it was applied during the national event. I assisted in registering unlisted students on-site and prepared results under tight deadlines. This gave me firsthand experience of how theoretical database knowledge translates into practical event management, though I noticed that real-time data entry demanded far more speed and accuracy than classroom exercises usually require.
- Week 2: I generated results for regional events using Onnorokom Software, entered program data, and coordinated with team members to ensure smooth

execution. This week helped me understand how workflow automation tools reduce manual errors. I realized that while I had learned about database queries in theory, handling live event data exposed me to challenges like inconsistent input formats and last-minute corrections.

- Week 3: To strengthen my technical skills, my organization made me build test projects using Swagger, Postman, and WordPress. These practice tasks allowed me to understand documentation, testing, and basic content management in a more practical sense. Although I had studied API concepts before, actually using Swagger and Postman revealed gaps in my understanding of request response cycles and authentication handling.
- Week 4: I coordinated with the academic team during the National Biology Olympiad's Biocamp to ensure smooth program flow. This week exposed me to the organizational side of event management and gave me insight into how technical and academic teams must synchronize. I learned that clear communication can be as important as technical tools for preventing mistakes in high-pressure environments.
- Week 5: I developed a test e-commerce website to gain experience in Laravel. This was a chance to apply my theoretical PHP and database knowledge to a real framework. I faced difficulties with composer dependencies and routing but gradually overcame them.
- Week 6: I worked on a certificate validator and generator with a single-entry system. This task deepened my understanding of form validation and backend logic. I realized that in practice, user experience design is as crucial as backend accuracy.
- Weeks 7–8: I created a custom form entry system with an admin-customized panel. This exposed me to role-based permissions, dynamic form handling, and database mapping. While I had studied CRUD operations in theory, implementing them with real user requirements helped me bridge the gap between abstract concepts and user-centric design.
- Weeks 9–10: I enhanced the certificate validator to support batch uploads. This task demanded efficiency in data handling and error-checking, which taught

me the importance of scalability and robustness in software systems. Unlike academic assignments with small datasets, the organization’s needs required performance optimization, making me more aware of practical constraints.

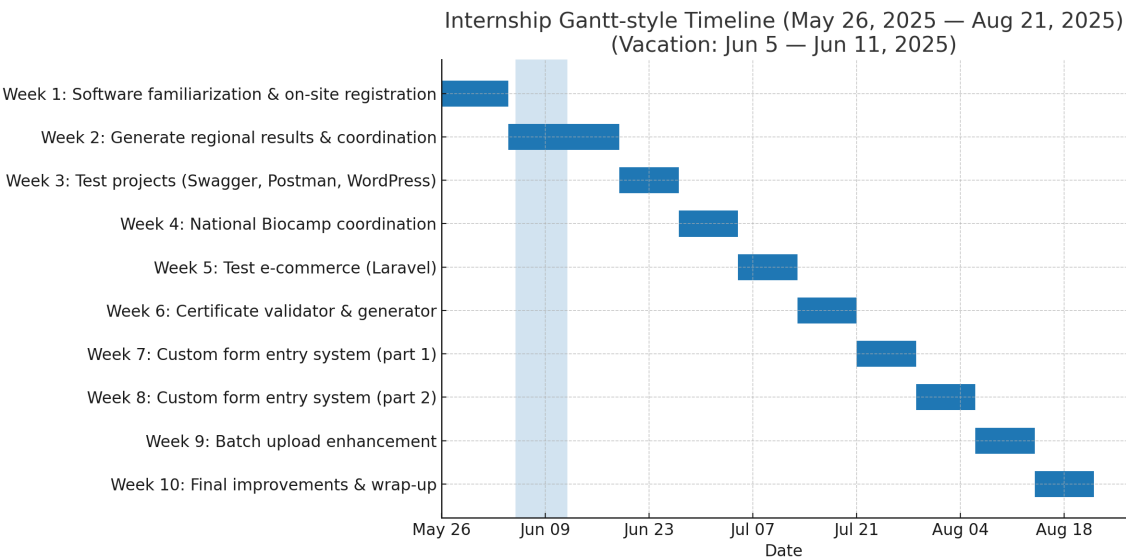


Table 4.1: Gantt chart for my internship.

4.3 Challenges Faced

I had limited experience with web development, Laravel and Composer, so I first built several small practice projects to gain confidence and then applied those patterns to the real system. I initially had trouble demonstrating features to the front-end developer, so I learned Swagger and used it to present API contracts clearly. Because these were official projects, I had to increase the quality with careful migration plans, automated deployments, monitoring, testing and regular backups. Due to working with personal information I needed to improve security and make the system production-ready.

Chapter 5

Methodology

First, I designed the database schemas, wrote migrations, and defined the API contract so every endpoint had clear inputs and outputs. Next, I implemented the Form model and FormController to handle create, update, duplicate, delete and publish flows, adding validation and versioning to protect historical submissions. Then I added middleware checks, and a user/role seeder so admin privileges and owner-only access were enforced from deploy time. For payment needs I integrated Stripe and bKash, and implemented receipt uploads with PDF generation. After that, I moved external notifications and integrations to queued jobs with retry and backoff logic so background tasks never block requests. Meanwhile, code reviews, a CI pipeline, and tests unit and feature kept changes safe, and performance tuning indexes, eager loading, caching reduced database load. Finally, I ran UAT, added regression tests for critical flows, and produced handover docs, API docs, Postman collection, and runbook for future maintenance.

I developed the certificate generator in Laravel using Composer centered on building a scalable and API-driven solution for bulk certificate production. First, the system was designed with necessary database fields such as template type national champion, regional winner, participant, participant details(name, email, ID, admin ID for privilege checks, font and style configurations, and output format to ensure flexibility and data accuracy. Laravel migrations and seeders were used to set up these structures, while Composer dependencies handled PDF generation and font rendering. Next, RESTful API endpoints were defined and documented in Swag-

ger, covering actions like 'POST /certificates/generate' for bulk generation, 'GET /certificates/templates' for fetching available designs, and 'POST /certificates/pre-view' for customization checks, ensuring a clear contract for both internal and external integrations. Admins with appropriate roles could pre-fill data through these endpoints, define participant counts, and trigger the generation process, while background jobs queued large requests for performance efficiency. The system was optimized to generate thousands of personalized PDFs within seconds, with Swagger documentation and Postman collections created to support testing and future maintenance. Finally, customization options such as titles, headers, fonts, and text sizes were integrated at both the database and API levels, ensuring a user-friendly and adaptable solution for high-volume certificate production.

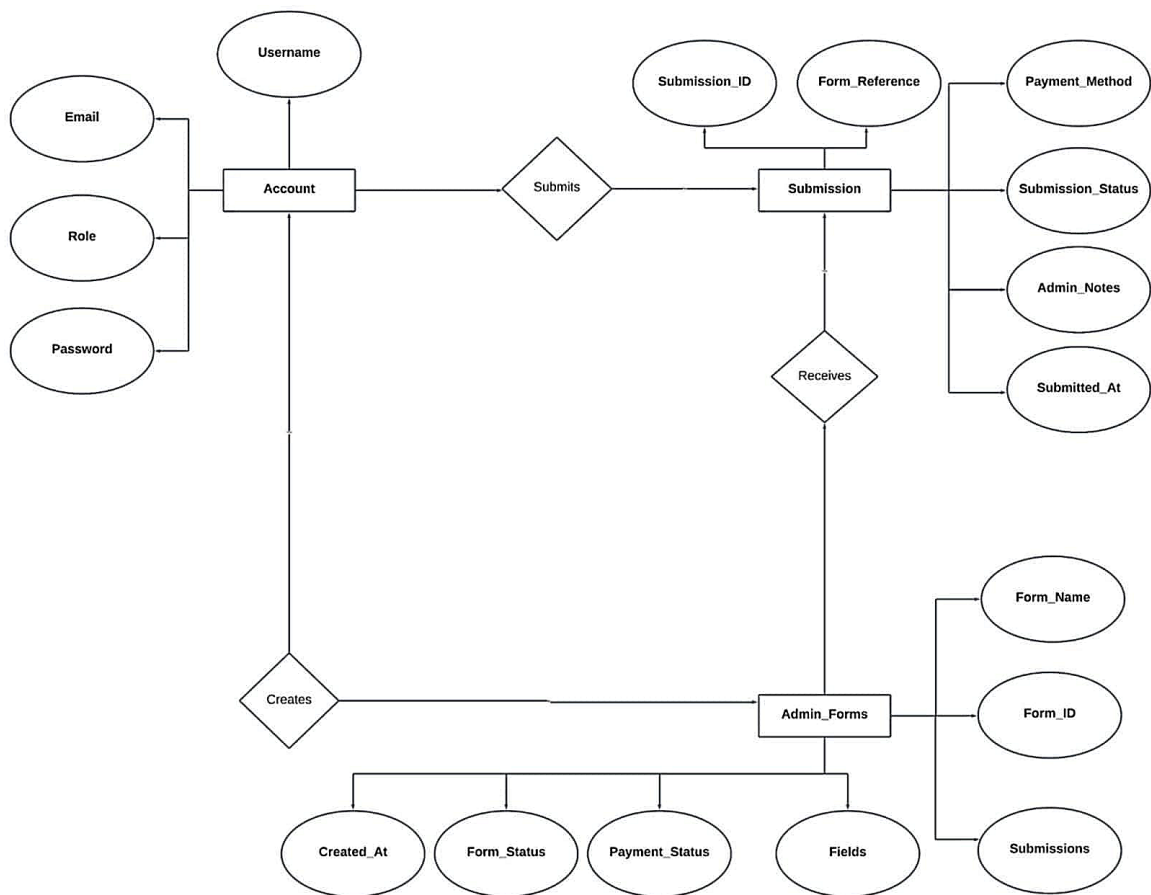


Figure 5.1: ER Diagram For Dynamic Form Creator.

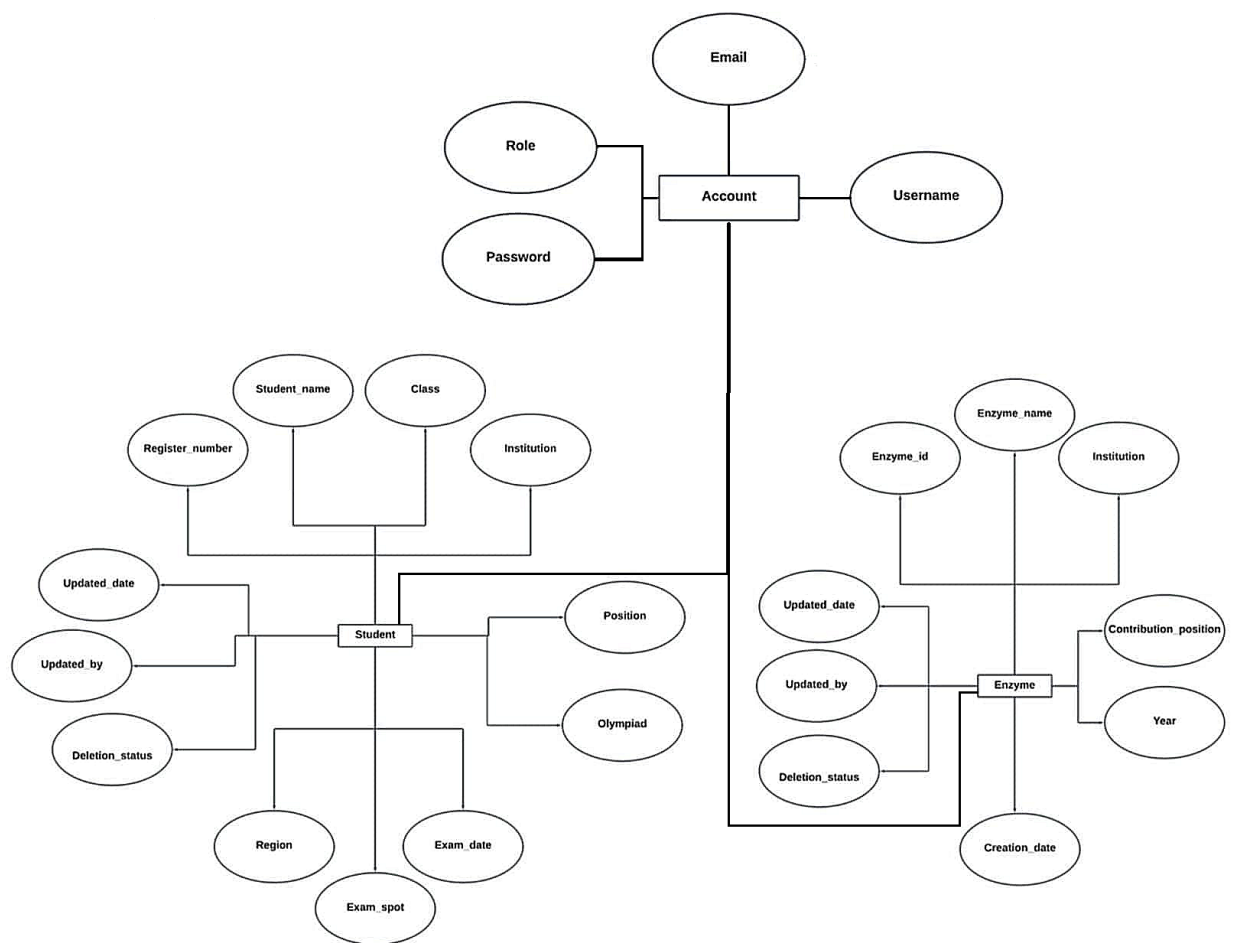


Figure 5.2: ER Diagram For Certificate generator.

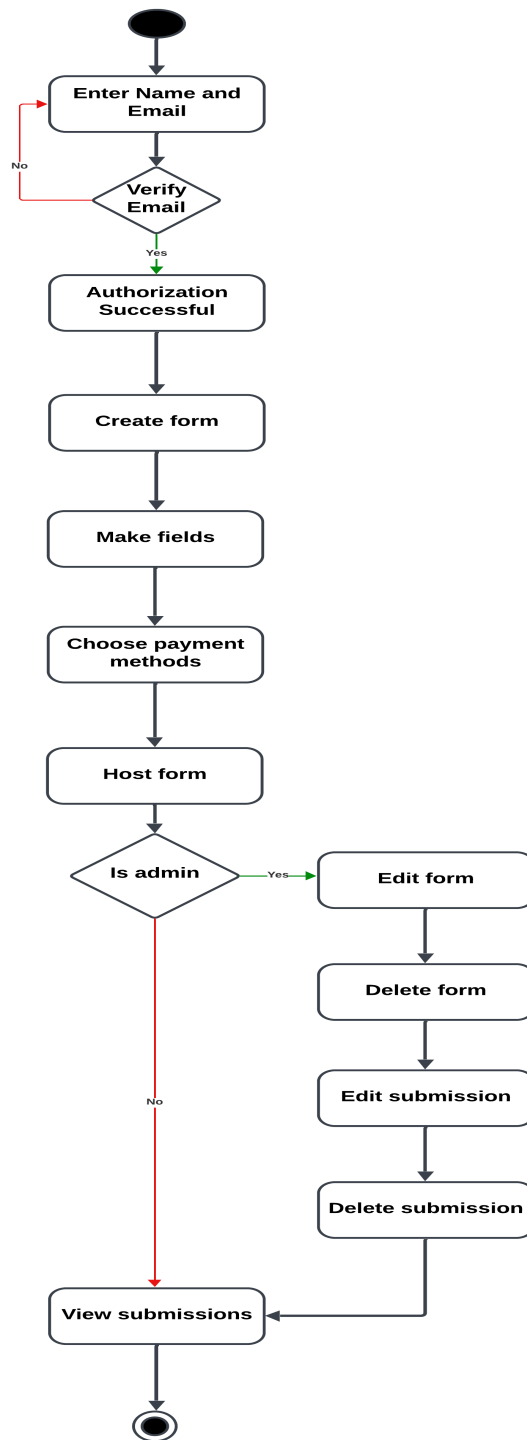


Figure 5.3: Activity Diagram For Dynamic Form Creator.

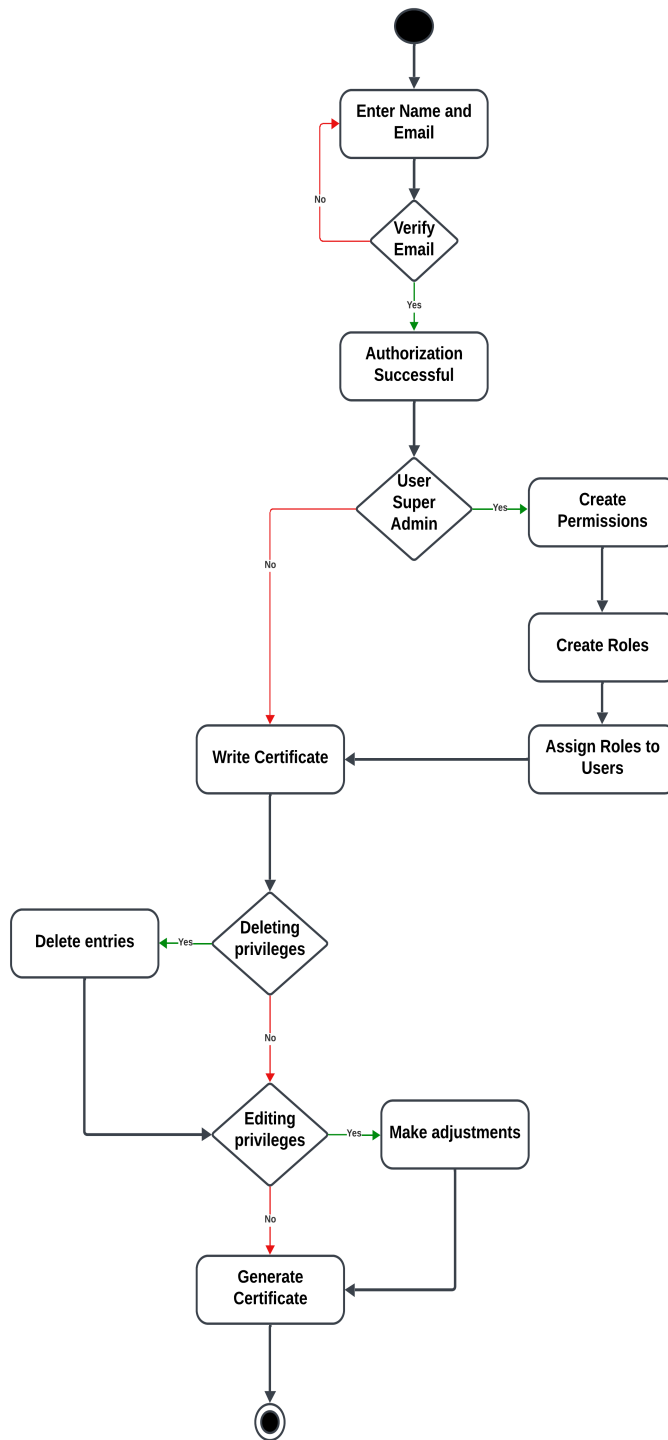


Figure 5.4: Activity Diagram For Certificate generator.

Chapter 6

Analysis and Findings

6.1 Results

During my internship, I was able to turn my technical skills into solutions that made a real difference for BdBO's work. I designed and deployed two fully functional systems. a certificate generator with built-in verification and a flexible form creator with payment integration that cut down repetitive admin tasks, improved data accuracy, and strengthened security. Working on these projects pushed me to learn Laravel in depth, design clean database structures, handle real payment flows, and produce clear API documentation. I also became more confident in managing live deployments, troubleshooting issues, and coordinating with team members under tight timelines. Beyond the technical side, the experience taught me how to think about user needs, balance speed with reliability, and deliver tools that help an organization run more smoothly and scale its impact.

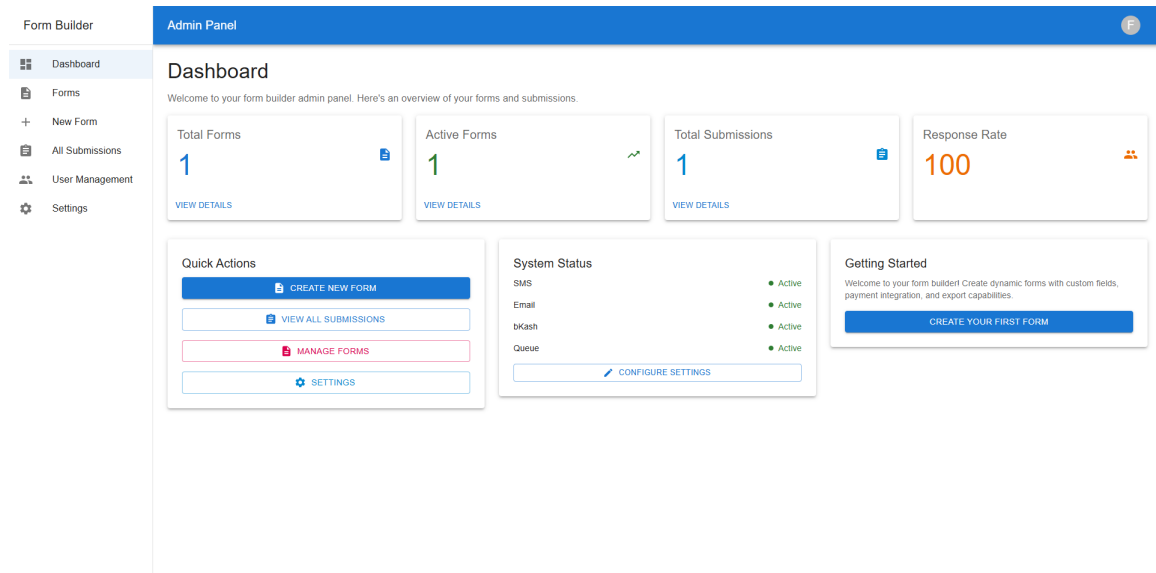


Figure 6.1: Web page for Custom form creator

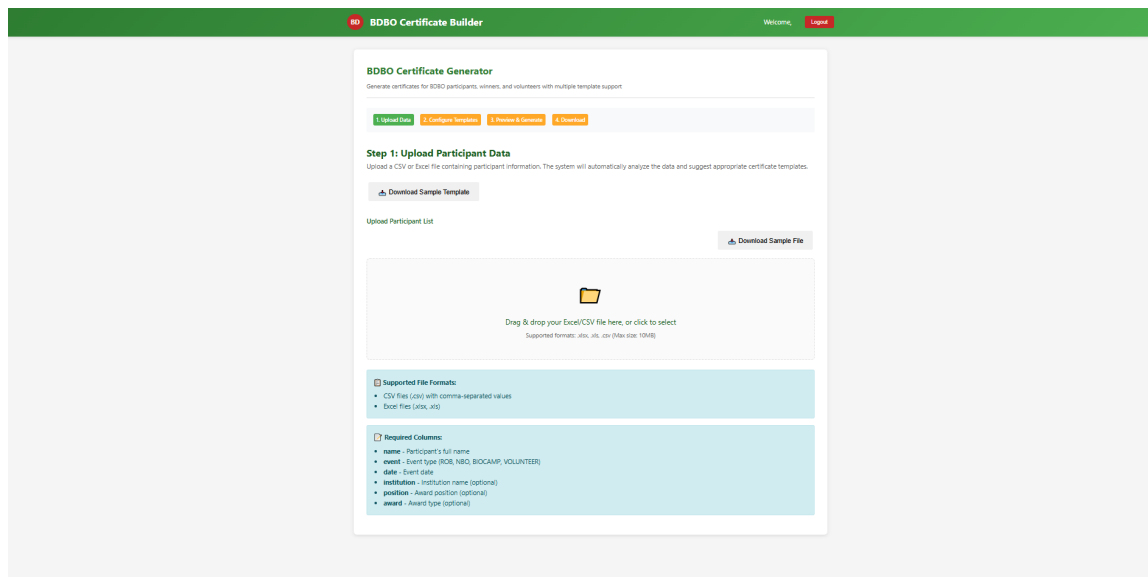


Figure 6.2: Web page for Certificate Generator

6.2 Learning and Development

At BdBO I learned to design and ship production-quality web systems, building Laravel backends, clean database schemas with migrations/seeder, payment handling, PDF and certificate generation, and role-based access, while applying strong data-quality practices such as validation, de-duplication, auditable scoring. I also gained operational know-how in CI/CD, deployments, Supervisor queues, monitoring and backups, and improved product-focused UX that cut admin time; finally, I sharpened documentation, testing, UAT, and cross-team communication skills needed to deliver reliable systems under real deadlines.

6.3 Tools and Technology

I built the backend with Laravel, a PHP MVC framework and MySQL, using migrations to version the database schema and seeders to provision default roles and admin users so deployments were reproducible and safe. Authentication was handled with JWT, giving stateless, middleware-enforced bearer tokens for secure API access. Swagger served as the machine-readable, single-source API specification and interactive docs, while Postman provided runnable collections

for manual and automated QA/UAT. The supervisor acted as a process manager for queue workers that processed background jobs such as webhook deliveries, exports, receipt generation, ensuring long-running tasks didn't block requests. Finally, GitHub workflows powered CI/CD running builds, tests and migrations so releases were consistent and repeatable.

6.4 User Guideline

The dynamic form builder lets you design and publish custom forms in minutes. Start by naming the form and adding a short description so respondents know its purpose. Decide whether payments are required and set the amount, allow or block multiple submissions, and choose whether users may edit their own responses after submitting. You can set a redirect URL to send people somewhere after submission and toggle notifications on or off. When creating fields, give each one a clear label and pick an input type text, textarea, dropdown, radio, checkbox. Control visibility by marking fields public or admin-only, make fields dependent on earlier answers, and add validation like minimum/maximum length to keep data clean. If you accept payments, let respondents choose between supported gateways such as bKash or Stripe. Users with review privileges can view submission details, check payment status, add internal notes, and export responses and the exported submission PDF can be customized to include or hide payment details and selected fields.

The certificate generator is a separate tool built specifically for fast, accurate certificate production. Choose a template national champion, regional winner, participant and pick how many certificates to generate. The generator can create thousands of personalized PDFs in seconds, saving huge amounts of manual work. Admins with the right privileges can pre-fill data for students or enzymes, select participant counts, choose output formats, and tweak title/header, fonts, text sizes.

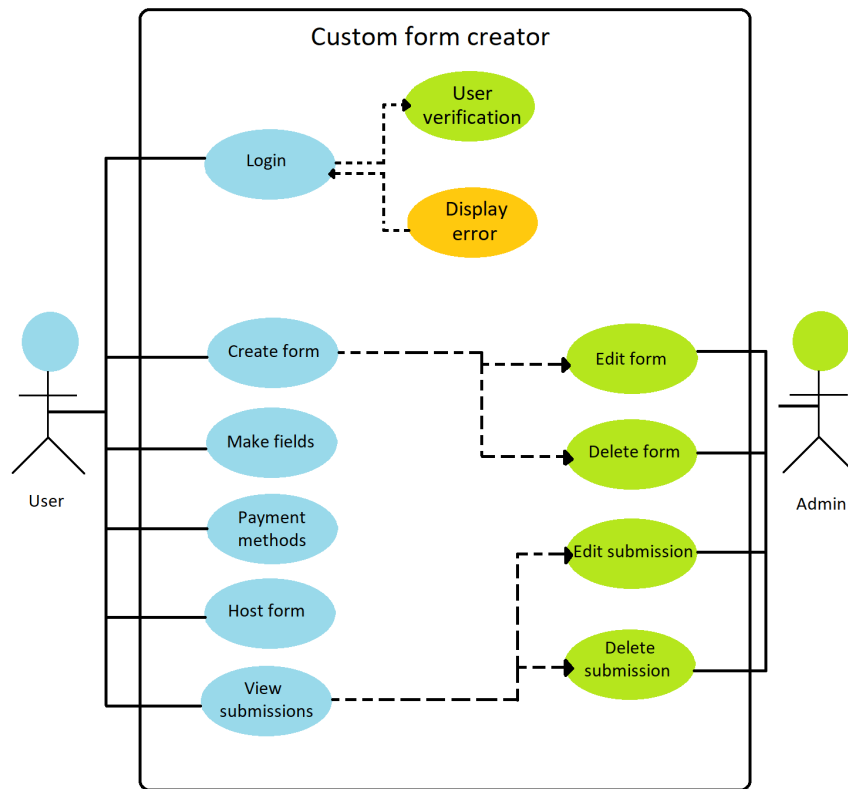


Figure 6.3: Use case diagram for form creator

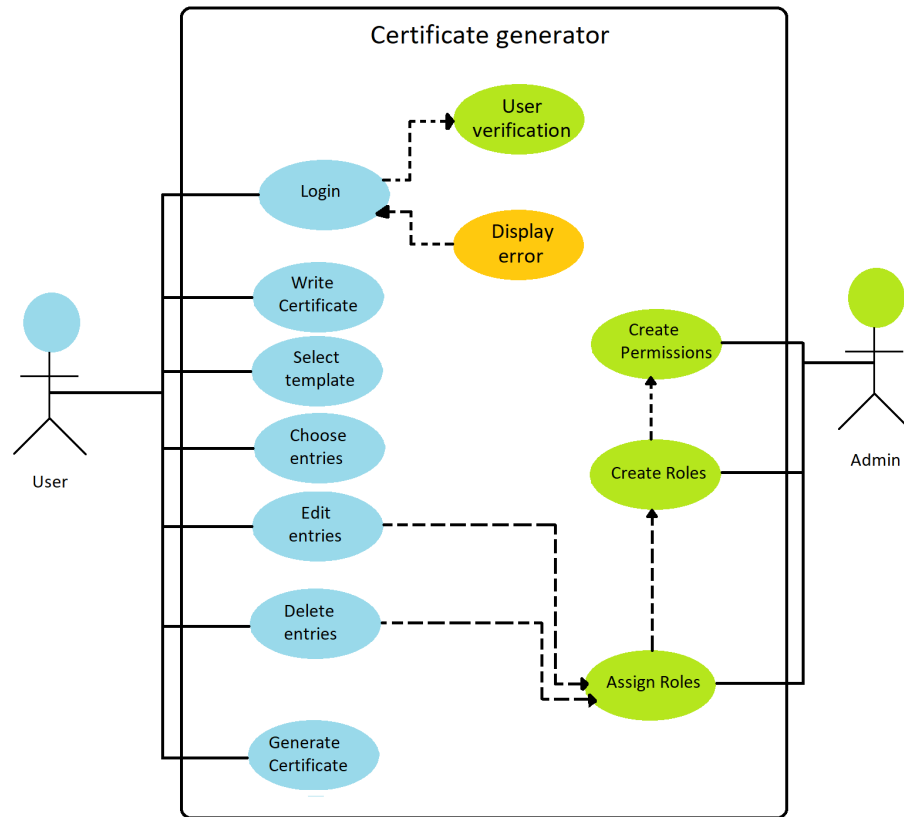


Figure 6.4: Use case diagram for Certificate Generator

6.5 Impact of the Internship

My work will significantly boost BdBO's operational capacity by delivering two production-grade platforms: a Laravel certificate generator with QR verification, unique hashes, and role-based access that produces tamper-evident, easily-validated credentials for events, partners, and publications; and a configurable custom-form creator that supports multiple field types, conditional dependencies, server-side validation, admin editing, PDF receipt generation, and bKash/Stripe payment flows with webhook-backed confirmation. These systems are backed by versioned migrations, audit trails, and documented APIs so certificates and forms can be reproduced, verified, and integrated by partners; they reduce manual effort, close security and compliance gaps, enable fast rollout of new programs or fee-based offerings, and provide reliable, auditable data that leadership can use to scale outreach, measure impact, and make evidence-based decisions.

Chapter 7

Conclusions and Recommendations

7.1 Conclusion

This internship turned academic learning into concrete, high-impact tools that meaningfully improved BdBO's operations. By delivering a production-ready certificate generator and a flexible form-builder with payment and PDF workflows, I helped streamline administrative work, raise data quality, and create auditable verification for selections. The hands-on development sharpened my skills in Laravel, database design, CI/CD pipelines, and payment integration, while also teaching me to prioritize reliability and user needs under tight timelines. Equally valuable were the soft-skill gains: greater project ownership, clearer cross-team communication, and confidence in shipping features used by real people. I plan to build on this foundation by deepening my deployment experience and expanding front-end capabilities to further scale EdTech solutions.

7.2 Limitations

I recognize a few clear limitations from my internship. Much of the webhook and integration work such as Slack alerts, email hooks, and Google Sheets syncing as well as the environment and deployment tasks like Nginx configuration, Supervisor queue management, and backup policy, were implemented by my teammates, so I mainly observed and learned from their work rather than gaining deep hands-on experience with production deployments. My role was strongly backend-focused, which meant my front-end skills did not develop as much as I had hoped; I contributed APIs and server logic but spent relatively little time on UI/UX or client-side

implementation. Finally, the certificate generator project remained unfinished by the end of my internship, so while I helped design its architecture and data mappings, I did not complete its final integration and testing. These gaps have given me a clear roadmap for improvement. I plan to get more hands-on with deployments, strengthening my front-end abilities.

7.3 Recommendations

I would like BDBO to add more regional team members dedicated to data entry so that information is captured more accurately and efficiently. I would also like them to move away from maintaining separate databases on different servers and instead adopt a centralized database or automated synchronization system to reduce errors and manual effort. In addition, I would like the organization to standardize its software environment by moving beyond the current mix of Node.js, Python, and .NET on separate servers, and instead use a unified stack, containerization with Docker, and centralized orchestration with Kubernetes or a cloud platform. These steps would make data management smoother, improve efficiency, and create a more scalable and secure IT infrastructure.

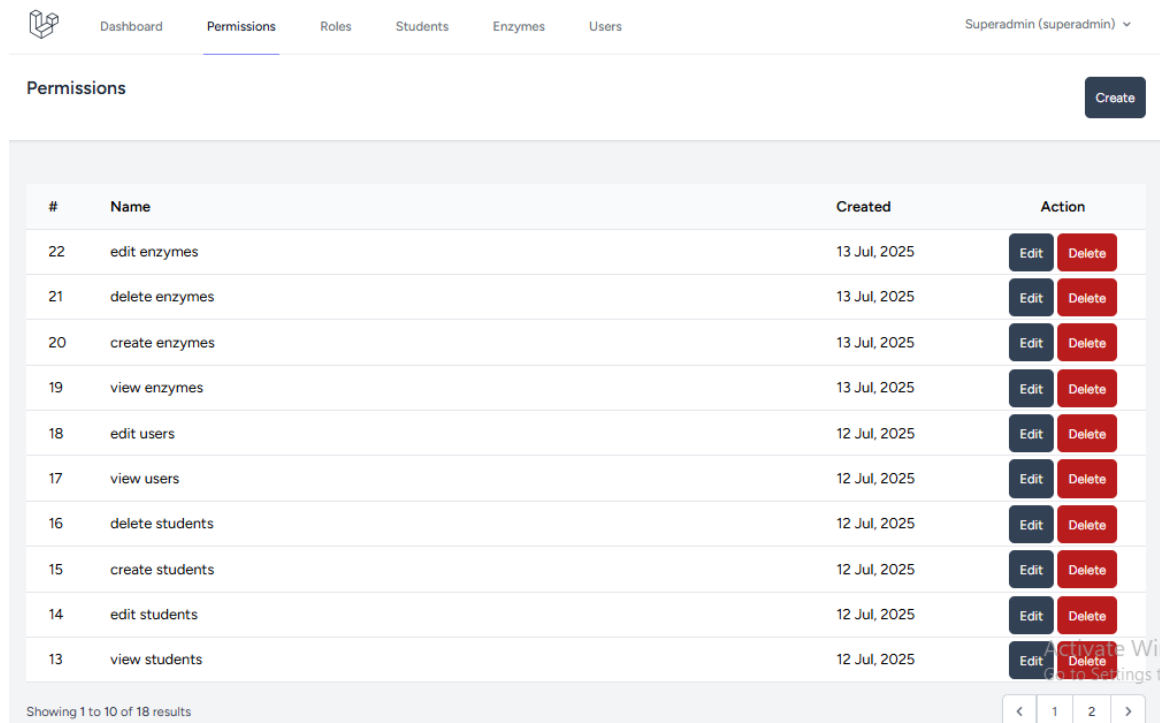
Chapter 8

Acknowledgments

During my internship, I received valuable guidance from Debashish Sarkar Tomal, the IT Editor of the Bangladesh Biology Olympiad. He played a key role in helping me learn Laravel, Swagger, and other important tools that were essential for my projects. Whenever I faced difficulties while developing applications for BdBO, he patiently guided me through the challenges and provided practical solutions. His support not only improved my technical skills but also gave me the confidence to handle complex tasks more effectively.

Appendix

My implementation of role and permission creation using Laravel, which will be integrated into the certificate generator in the future.



 Dashboard Permissions Roles Students Enzymes Users Superadmin (superadmin) ▾				
Permissions				Create
#	Name	Created	Action	
22	edit enzymes	13 Jul, 2025	Edit	Delete
21	delete enzymes	13 Jul, 2025	Edit	Delete
20	create enzymes	13 Jul, 2025	Edit	Delete
19	view enzymes	13 Jul, 2025	Edit	Delete
18	edit users	12 Jul, 2025	Edit	Delete
17	view users	12 Jul, 2025	Edit	Delete
16	delete students	12 Jul, 2025	Edit	Delete
15	create students	12 Jul, 2025	Edit	Delete
14	edit students	12 Jul, 2025	Edit	Delete
13	view students	12 Jul, 2025	Edit	Delete
Showing 1 to 10 of 18 results			< 1 2 >	

Figure 8.1: Certificate Generator Permission page

	Dashboard	Permissions	Roles	Students	Enzymes	Users	Superadmin (superadmin) ▾
Roles							Create
#	Name	Permissions	Created	Action			
7	Enzyme creator	view enzymes, create enzymes	13 Jul, 2025	Edit	Delete		
8	Enzyme editor	view enzymes, create enzymes, delete enzymes, edit enzymes	13 Jul, 2025	Edit	Delete		
6	Student Creator	view students, create students	13 Jul, 2025	Edit	Delete		
5	Student editor	view students, edit students, create students, delete students	13 Jul, 2025	Edit	Delete		
4	superadmin		12 Jul, 2025	Edit	Delete		

Figure 8.2: Certificate Generator Roles page



বাংলাদেশ জীববিজ্ঞান অলিম্পিয়াড | Bangladesh Biology Olympiad

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Govt. Reg. no. GA-278/2025

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সভাপতিমণ্ডলীয় সদস্য

ডা. বিধান রঞ্জন রায় পোদ্দার

উপসচিব, অর্থনীতিবিদ্যার সচিব, মন্ত্রণালয়

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কেন্দ্রীয় সচিব ও পরিচালক, মেডিসিন

হাসপাতাল কমপ্লেক্স, সিরাজগঞ্জ

ড. মো: হাবীবুর রহমান

অধ্যাপক, রাজশাহী বিশ্ববিদ্যালয়

সাধারণ সম্পাদক

ড. মুহাম্মদ তারিক আরাকাত

অধ্যাপক, বাংলাদেশ প্রকৌশল বিশ্ববিদ্যালয়

Chair

Dr. Rakha Hari Sarker

Professor, Dhaka University

Presidium members

Dr. Bidhan Ranjan Roy

Podder

Advisor, Interim Government,

Government of the People's

Republic of Bangladesh;

Professor and ex-director, National

Institute of Mental Health

Dr. A.K.M. Zakir Hossain

Professor, Bangladesh Agricultural

University;

Ex-vice chancellor, Kurigram

Agricultural University

Dr. Mrityunjay Kunda

Professor, Sylhet Agricultural

University

Dr. Nitya Ranjan Paul

General Surgeon and Director,

Medinova Hospital Complex,

Sirajgonj

Dr. Md. Habibur

Rahman

Professor, Rajshahi University

General secretary

Dr. Muhammad Tarik

Arafat

Professor, Bangladesh University

of Engineering and Technology

Date: May 21, 2025

Mr. Faisal Kabir Taj

University of Liberal Arts Bangladesh (ULAB)

ID: 2110104001

Phone Number: +880 1841 908 250

Email Address: faisal.kabir.cse@ulab.edu.bd

Subject: Internship Appointment Letter.

Dear Mr. Faisal Kabir Taj,

We are pleased to welcome you as an Intern at the Bangladesh Biology Olympiad (BdBO). Your nomination from the University of Liberal Arts Bangladesh and your academic background have impressed us and we are enthusiastic about the contributions you will bring to our team.

Your internship will officially commence on May 26, 2025, and will run for a period of 12 weeks. You will be involved in supporting national Olympiad, national BioCamp and other activities that includes the following: web development and database management, software engineering, graphic design, user experience feedback management and technical operations. Additionally, you will be encouraged to carry out a small research project that encompasses the above-mentioned topics under the guidance of a designated mentor.

Internship Details

Position: Intern – Technical & Program Coordination

Intern ID: BDBOINT0525-01

Duration: 12 Weeks (May–August 2025)

Location: BdBO Secretariat, Dhaka

Reporting to: Head of Technical Affairs

Stipend: Unpaid

Certification: Provided upon successful completion

You will soon be contacted by our coordinator regarding your onboarding schedule and initial assignments.

To complete your onboarding, please submit the following documents by or before May 24, 2025:

1. A scanned copy of your National ID and Student ID card
2. A recent passport-sized photograph
3. Updated academic transcript

Kindly send the documents to admin@bdbo.org. If you have any questions, feel free to contact us at +880 1714 694 499 or reply to this email directly.

Once again, welcome aboard! We look forward to working with you and wish you a successful learning experience at BdBO.

Sincerely,

Dr. Muhammad Tarik Arafat

General Secretary, Bangladesh Biology Olympiad (BdBO)

Professor and Head, Department of Biomedical Engineering, Bangladesh University of Engineering and Technology (BUET)

References

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M. M. Hasan, “Most Popular Olympiads in Bangladesh,” United News Bangladesh, Apr. 15, 2023. [Online]. Available: <https://unb.com.bd/category/Bangladesh/most-popular-olympiads-in-bangladesh/113731>