



Department of Computer Science & Engineering
SOUTHEAST UNIVERSITY

INTERNSHIP REPORT
ON
Implementation and Evaluation of SOFTWARE QUALITY ASSURANCE

A dissertation submitted to the Southeast University in partial fulfillment of the requirements for the degree of B.Sc in Computer Science & Engineering .

Submitted By
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ID: 2021000010022

Batch: 10

Supervised by

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July 05

Letter of Transmittal

July 05, 2025 The
Chairman
Department of computer science & Engineering
Southeast University
252/A Tejgaon,Dhaka.

Through: Supervisor, Mr. Tashreef Muhammad

Subject : Submission of the Internship Report.

Dear Sir ,

With due respect, I would like to approach you. This is a great opportunity to submit my internship report on the experience gained during my internship period at Dream71 Bangladesh. I have prepared this report in accordance with the instructions given by you and the university.

Working at Dream71 Bangladesh, it was inspiring and a great learning experience for me. I hope this knowledge will facilitate me a lot in my future career. This period has given me enough opportunity to actualize my theoretical knowledge in to a practical corporate environment. I have given my best effort to this report.

I sincerely hope that I am grateful to you if you kindly go through this report and evaluate my performance. I hope that you would like to appreciate the internship report.

Thank you.

Sincerely yours,

Supervisor:

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MD Delwar Hossain Mojumder
Id:2021000010022
Batch: 10
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Mr. Tashreef Muhammad
(Co-Ordinator & Lecturer)
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Certificate

This is to certify that MD Delwar Hossain Mojumder, Student Id: 2021000010022, Department of CSE, Southeast University, Dhaka. He has performed his internship program at **Dream71 Bangladesh**, Dhaka from 11.03.2025 to 10.07.2025 an extensive Internship program scheduled by the university Authority. During this period, He consulted me on a regular basis as required by the department. I therefore recommend that his practicum report be accepted for oral examination.

Supervisor:

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Co-Ordinator & Lecturer
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Co-Supervisor:

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Technical Project Manager
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Mr. Shahriar Manzoor
Associate Professor & Chairman
Department of Computer Science and Engineering
Southeast University, Bangladesh

Executive Summary:

This report presents an overview of my internship experience in Software Quality Assurance (SQA) and Project Management at **Dream71 Bangladesh**.

During this period, I had the opportunity to apply theoretical knowledge from my academic studies to real-world projects, gaining hands-on experience in essential practices for ensuring software quality and managing projects effectively.

The internship focused on two main areas: Software Quality Assurance and Project Management. In SQA, I was involved in tasks such as creating and executing test plans, identifying and documenting defects, and collaborating with developers to enhance software quality. Through this role, I developed skills in automated and manual testing, learned how to use industry-standard testing tools, and understood the importance of a structured approach to quality assurance in the software development life cycle.

In Project Management, I participated in the planning, execution, and monitoring of software development projects. Key responsibilities included supporting project documentation, tracking project progress, managing timelines, and ensuring effective communication among team members. This experience provided me with insight into Agile and Waterfall methodologies, along with essential project management tools and techniques that are critical for managing resources, risks, and timelines effectively.

Overall, this internship allowed me to strengthen my technical and organizational skills while enhancing my understanding of the collaborative and iterative processes involved in developing and delivering high-quality software. This report details my responsibilities, key learning outcomes, challenges encountered, and recommendations for future projects.

Acknowledgment:

I would like to express my sincere gratitude to everyone who supported and guided me throughout my internship in Software Quality Assurance and Project Management at **Dream71 Bangladesh**. This experience has been instrumental in bridging my academic learning with practical industry applications.

I am particularly grateful to my supervisor **S.H.M. Arafat** and **Mr. Tashreef Muhammad** Sir , for their invaluable guidance, constructive feedback, and encouragement, which helped me navigate various challenges and develop a deeper understanding of quality assurance practices and project management methodologies. Their mentorship was essential to my learning journey.

I also extend my thanks to the entire team at **Dream71 Bangladesh** for fostering a collaborative environment and sharing their expertise generously. Their insights greatly enriched my internship experience and contributed significantly to my professional growth.

Finally, I want to thank my academic mentors, friends, and family for their continuous support and motivation, which enabled me to make the most of this internship opportunity. This report is a testament to the contributions of everyone involved in this rewarding experience.

Thank you all for your invaluable contributions.

Warm regards,

MD Delwar Hossain Mojumder

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Chapter 1

Software Quality Assurance (SQA)

1.1 Introduction to Software Quality Assurance (SQA):



Fig 1.1.1 SQA

Software Quality Assurance (SQA) is a systematic process that ensures the quality of software throughout its development and deployment. SQA encompasses a range of practices, methodologies, and tools that aim to prevent defects, improve product reliability, and maintain high standards in software projects. It focuses on both the processes used to create software and the final product, ensuring that software meets specified requirements and performs as expected under all conditions. In the software development life cycle (SDLC), SQA plays a critical role by integrating quality management practices into each phase. This includes defining quality standards, planning quality processes, reviewing and auditing code, testing functionality, and implementing continuous improvements. Techniques such as manual testing, automated testing, code reviews, and process audits are commonly employed in SQA to verify that the software adheres to defined quality standards.

The importance of SQA has grown as software systems become more complex and integral to

critical business functions. High-quality software enhances user satisfaction, reduces maintenance costs, and improves the software's reliability and security. By identifying potential issues early in development, SQA reduces the risk of failure and costly rework later on.

1.2 SQA Testing Tools for Websites:



Fig 1.1.2 Website testing

For testing web site we used These tools:

- **Selenium:** One of the most popular open-source tools for web testing, ideal for automated functional testing across browsers.
- **JMeter:** A performance and load testing tool to assess website stability under different traffic levels.
- **Google Lighthouse:** A tool that provides performance, accessibility, and SEO audits for websites, ensuring they meet web quality standards.
- **BrowserStack:** A cloud-based platform for cross-browser and cross-device testing, enabling teams to verify website compatibility on various browsers and devices.

- **Postman:** Primarily used for API testing, ensuring that backend services used by websites are functioning correctly.
- **Katalon Studio:** An all-in-one testing tool for web, mobile, and API testing, suitable for automating and tracking website test cases.
- **Burp Suite:** A security testing tool that helps identify vulnerabilities in websites by testing for issues like SQL injections, XSS, and other common threats.
- **Applitools:** A visual testing tool that detects layout and content discrepancies across devices, enhancing UI consistency.

1.3 SQA Testing Tools for Video Games :

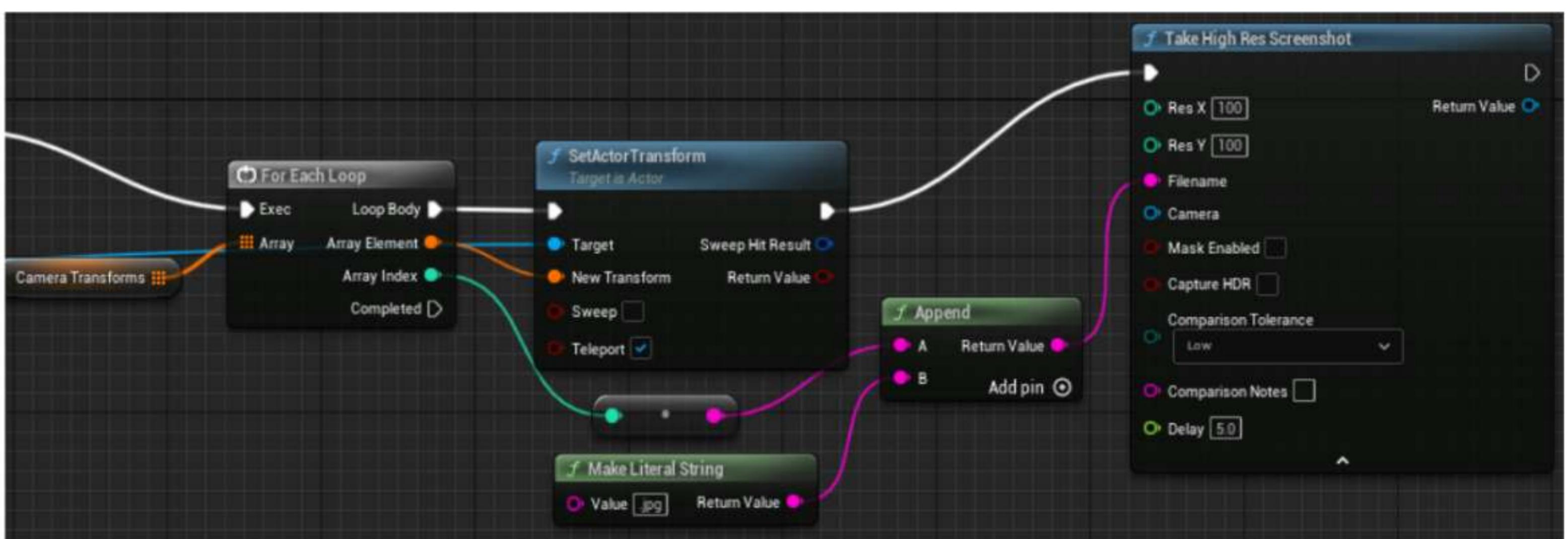


Fig 1.1.3 Unreal Engine Testing

- **Unreal Engine Testing Framework:** Built-in tools within Unreal Engine to test gameplay mechanics, performance, and functionality.
- **Unity Test Framework:** A framework for automated testing within Unity, supporting both play mode and editor testing.

- **Appium:** Ideal for mobile game automation, especially useful for cross-platform games on Android and iOS.
- **TestRail:** Used for test case management to track testing progress, especially for large-scale game development.
- **Jenkins:** Used for continuous integration (CI) in game development, automating builds and test cases after each code change.

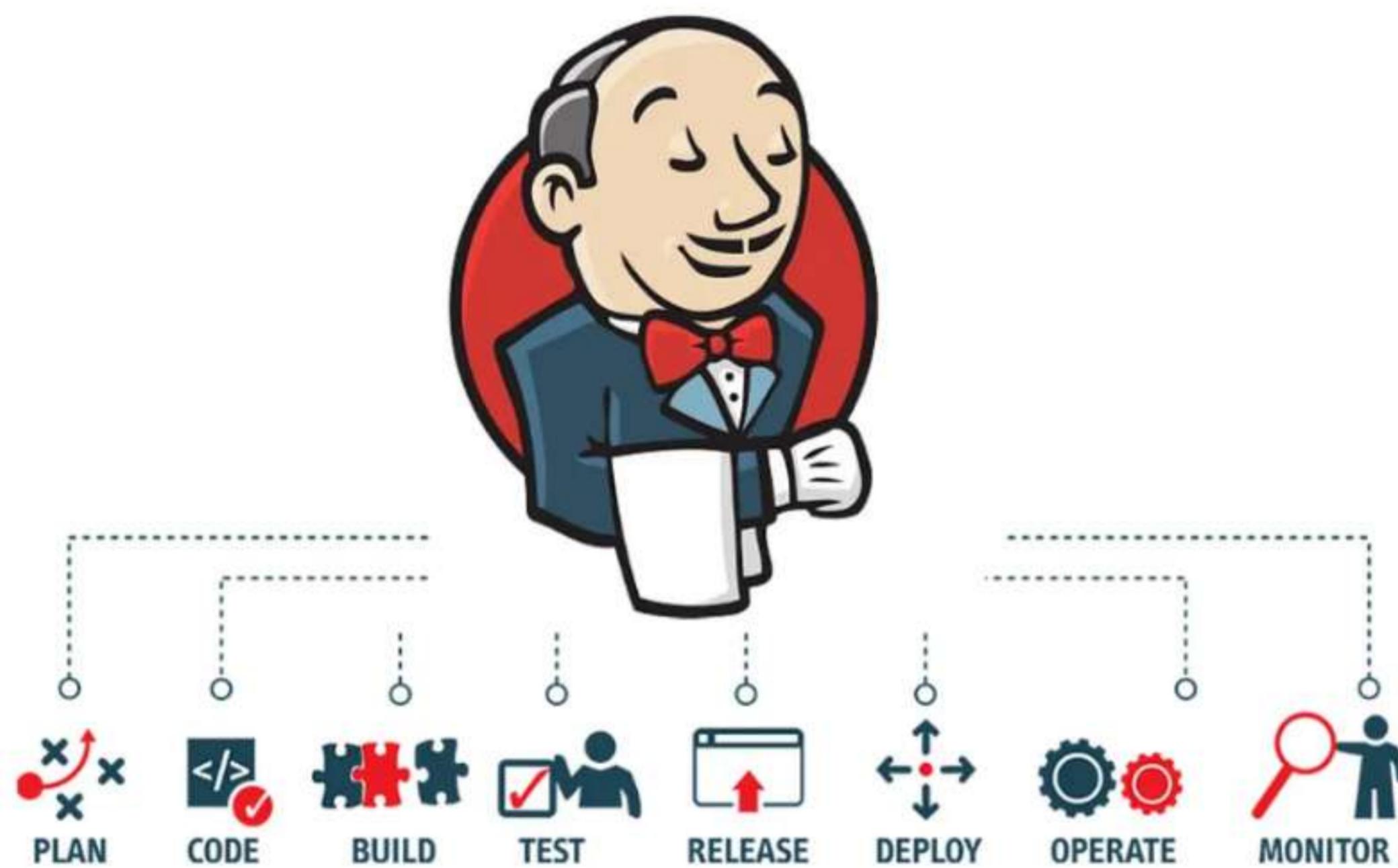


Fig 1.1.4 Jenkins CI/CD Testing in Game Development

- **Gamma:** An AI-driven game testing tool that simulates human interactions, identifying bugs, crashes, and unexpected gameplay behavior.
- **BugSplat:** A crash reporting tool that helps track and resolve issues related to game stability and performance.
- **Trello:** Trello is a visual project management tool used to manage tasks in game testing. It is effectively used for manual game testing, bug tracking, and managing testing workflows in a clear and organized way.

Chapter 2

Project Management

2.1 Introduction



Fig. 2.1.1 Project Management

Project management is the process of planning, organizing, executing, and overseeing a project to achieve specific goals within a defined timeline and budget. It involves coordinating resources, managing risks, communicating with stakeholders, and ensuring that the project's objectives are met efficiently and effectively.

2.2 Role of a Project Manager In SDLC

In the Software Development Life Cycle (SDLC), the **Project Manager (PM)** plays a crucial role in ensuring the project is completed on time, within budget, and meets the specified requirements.

Key components of project management include:

1. **Project Initiation:** Defining the project's goals, scope, and stakeholders.
2. **Project Planning:** Creating detailed plans outlining tasks, timelines, resources, budgets, and risk management strategies.
3. **Execution:** Carrying out the project according to the plan, including resource allocation and task management.
4. **Monitoring and Controlling:** Tracking progress, comparing it with the plan, and making adjustments as needed.
5. **Closing:** Finalizing all project activities, delivering the project results, and evaluating the project's success.

2.3 Project Management in Software Development :



Fig: 2.1.2 Project Management Life cycle in software Development.

This image illustrates the Project Lifecycle, which is a structured sequence of phases commonly followed in project management to ensure the systematic and successful completion of projects. Here's a breakdown of each phase represented in the cycle:

- **Initiating :** This phase involves defining the project at a high level and securing authorization to begin. Key tasks include identifying the project's purpose, scope, and stakeholders, along with defining objectives and initial requirements.

- **Planning** : This stage focuses on establishing a detailed roadmap for achieving the project's goals. Activities include developing schedules, budgets, resource allocations, risk assessments, and communication plans to guide project execution effectively.
- **Executing** : During execution, project plans are put into action to create the desired deliverables. Tasks are assigned, resources are utilized, and project activities are carried out as planned. The focus is on producing outputs and meeting project objectives. Monitoring and
- **Controlling** : This phase involves tracking, reviewing, and regulating the project's progress and performance to ensure alignment with the plan. It includes quality control, risk management, and making adjustments as necessary to keep the project on track.
- **Closing** : In the closing phase, the project is formally concluded. Final deliverables are handed over, documentation is completed, stakeholders are debriefed, and any remaining resources are released.

This phase ensures that the project's goals have been met satisfactorily. Each phase represents a crucial stage in project management and serves as a guide to structure and organize work effectively.

Chapter No. 3

Internship Overview

3.1 Overview of Internship Program

The internship program in Software Quality Assurance provides individuals with practical experience and skills in creating dynamic and interactive websites, Games and Software applications Quality control and management. The program typically spans a designated period, during which interns work alongside experienced professionals to gain hands-on knowledge in various aspects of SQA. The internship program in SQA and Project Management offers a valuable opportunity for individuals to gain practical skills, professional experience, and industry exposure necessary to thrive in the field of SQA and Project Management.

3.2. Components of the Internship Program :

A well-structured internship program in Software Quality Assurance (SQA) and Project Management includes several essential components that contribute to a valuable learning experience and ensure that interns gain practical skills relevant to their field. Here are the key components:

1. Orientation and Onboarding

- Introduction to Company Culture: Interns are introduced to the organization's culture, values, and work environment to help them acclimate and understand the expectations.
- Overview of SQA and Project Management Processes: An introduction to the company's SQA and project management frameworks, standards, and tools provides a foundational understanding for interns.

2. Training and Skill Development

- Technical Training in SQA Tools: Interns receive training on tools used for testing, debugging, and quality control, such as Selenium, JIRA, LoadRunner, or TestRail.
- Project Management Tools and Techniques: Training in tools like Microsoft Project, Asana, or Trello, and methods like Agile, Scrum, or Waterfall, helps interns understand the various project management frameworks.
- Soft Skills Training: Effective communication, teamwork, and problem-solving skills are essential for both SQA and project management roles and are often a focus of training sessions.

3. Real-World Project Assignments

- Hands-On SQA Tasks: Interns participate in software testing, such as manual and automated testing, bug tracking, test case development, and validation of software functionalities.
- Project Management Involvement: Interns assist with planning, scheduling, and tracking project progress, learning the steps in managing a project's timeline, scope, and budget.
- Risk Assessment and Mitigation: Exposure to risk analysis and mitigation planning provides interns with a realistic understanding of managing challenges in both SQA and project management.

4. Mentorship and Guidance

- Experienced Mentors: Each intern is paired with a mentor, usually an experienced SQA

engineer or project manager, who provides guidance, feedback, and support.

- Regular Check-Ins: Scheduled one-on-one sessions allow mentors to discuss progress, address questions, and set goals for the intern's development.

3.3 Benefits of the Internship Program :

Internship programs in Software Quality Assurance (SQA) and Project Management offer valuable benefits for both interns and the organizations they work with. Below are the key benefits associated with such programs:

1. Skill Development and Practical Experience:

- Technical Skills: Interns gain hands-on experience with SQA tools, techniques, and testing frameworks, as well as project management tools and methodologies like Agile, Scrum, and Kanban.
- Problem-Solving Abilities: Exposure to real-world projects helps interns enhance their analytical and problem-solving skills, essential for identifying, diagnosing, and resolving issues in both quality assurance and project management.

2. Understanding of SDLC and Quality Standards

- Comprehensive SDLC Knowledge: Interns gain a deeper understanding of the Software Development Life Cycle (SDLC) and how quality assurance and project management are integrated into each phase.
- Familiarity with Industry Standards: Interns become familiar with industry standards (like ISO, CMMI) and best practices for SQA, enhancing their ability to contribute to high-quality software development projects.

3. Teamwork and Communication Skills

- Cross-Functional Collaboration: Working with different teams (developers, designers, product managers) improves interns' ability to collaborate and communicate effectively, a vital skill for both SQA and project management.
- Client Interaction and Stakeholder Management: Interns often get exposure to client requirements and stakeholder expectations, which helps in building effective communication and reporting skills essential for project management roles.

4. Exposure to Project Management Processes

- Project Planning and Execution: Interns gain firsthand experience in planning, scheduling, and tracking project activities, including scope management, resource allocation, and risk management.

5. Career Advancement Opportunities

- Improved Employability: Interns acquire industry-relevant skills and experience, making them more competitive candidates for future roles in SQA or project management.
- Pathways to Certification: Internship programs often encourage or provide access to professional certifications like Certified Associate in Project Management (CAPM), Certified Software Quality Analyst (CSQA), and others, further boosting career prospects.

3.4 List of Projects Work During Internship:

DLS License Management System (Category-2 License):

★ Project Status :Live

This project was developed for the Department of Livestock Services (DLS) to automate the licensing process for Category-2 animal feed importers/exporters. The software replaced traditional paper-based systems with an end-to-end digital solution.

Key Contributions:

- Reviewed the Software Requirement Specification (SRS) to identify functional modules and prepare test cases.
- Performed manual testing for features such as user registration, license applications, warehouse inspections, and suspension workflows.
- Used **Trello** for bug tracking and **Postman** for API endpoint testing (e.g., payment confirmation, license status).

Features Tested:

- Role-based workflow involving DD, DLO, ULO
- License status update and renewal system
- Warehouse location and inspection verification
- PDF license generation with digital signatures

This project enhanced my understanding of government regulations and digital licensing systems.

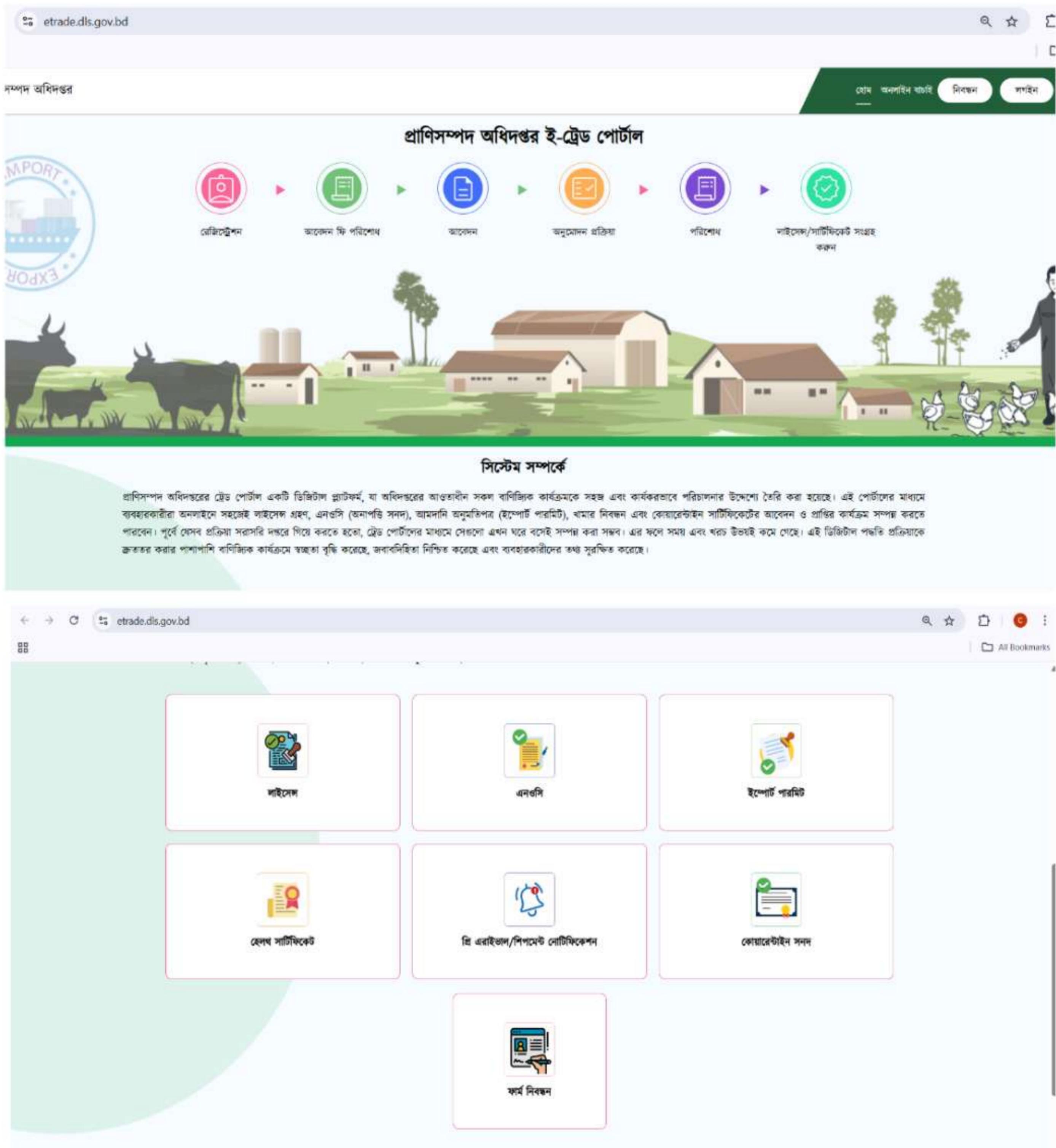


Fig:3.4.1 Department of Livestock Services (DLS) – Category-2 License Management System

Inland Crew Certification Management System (DoS):

★ Project Status :Live

We Softwind Tech Ltd. teamed up with Banglalink to bring you an immersive and interactive online adventure! This web-based ERP system was developed for the Department of Shipping (DoS) under the Ministry of Shipping. It supported functionalities such as inland crew certification, service book issuance, medical record updates, and training institute registration.

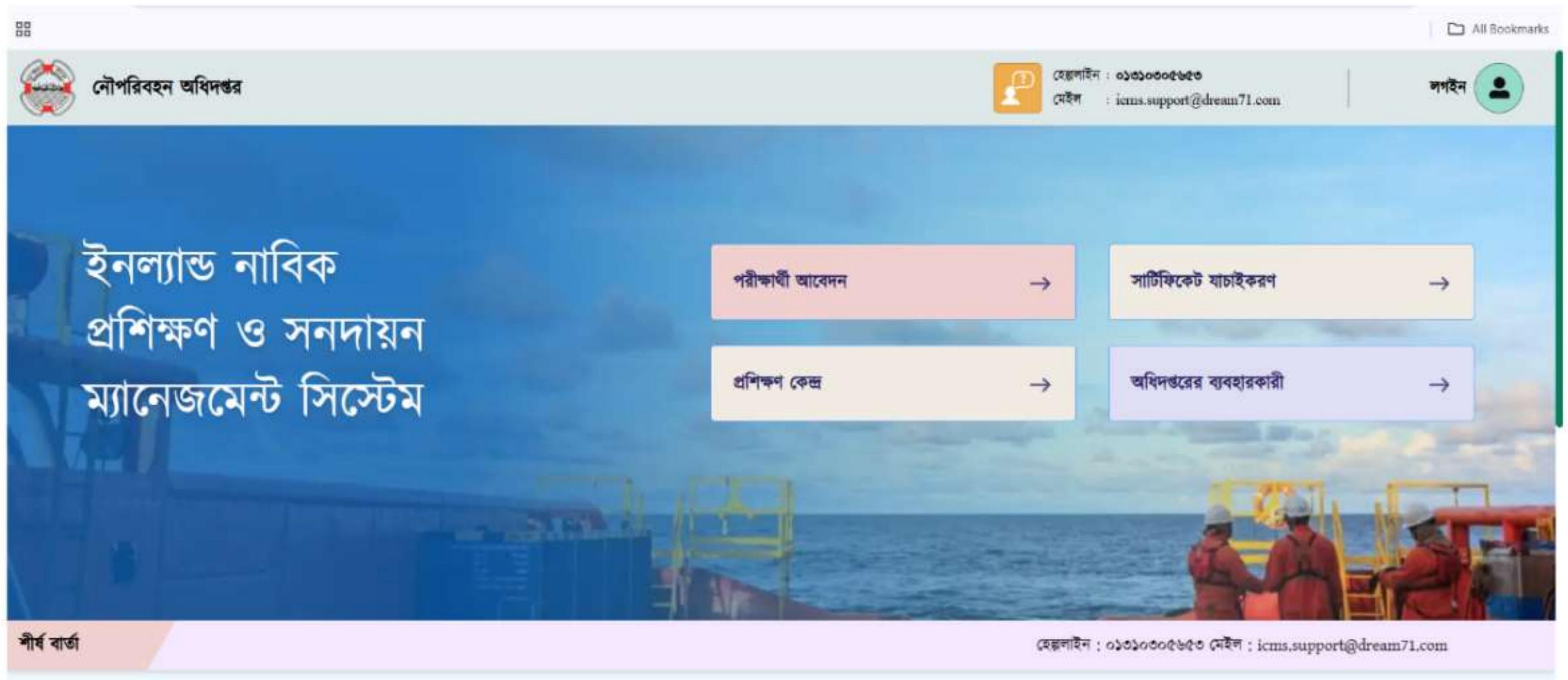
Key Contributions:

- Studied the SRS to understand role-specific workflows (applicants, surveyors, examiners, admin, DG).
- Conducted manual and API testing for:
 - Profile updates
 - Document uploads
 - Application tracking
 - Exam scheduling
 - Certificate issuance
- Used **JMeter** for basic load testing, particularly for peak-time form submissions.

Features Tested:

- Online application & admit card generation
- Real-time SMS notifications and status tracking
- Integration of results and certificate revalidation
- Secure role-based access (examiner, admin, certificate print operator)

This experience helped me understand how ERP systems operate in a multi-user government context.



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১ম ক্রেণিং ড্রাইভার - engine	2024-10-15	400	109	291
২য় ক্রেণিং ড্রাইভার - engine	2024-11-07	300	179	121
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১ম ক্রেণিং ড্রাইভার - engine	2024-12-11	300	128	172

Fig:3.4.2 Department of Shipping (DoS) – Inland Crew Certification Management System

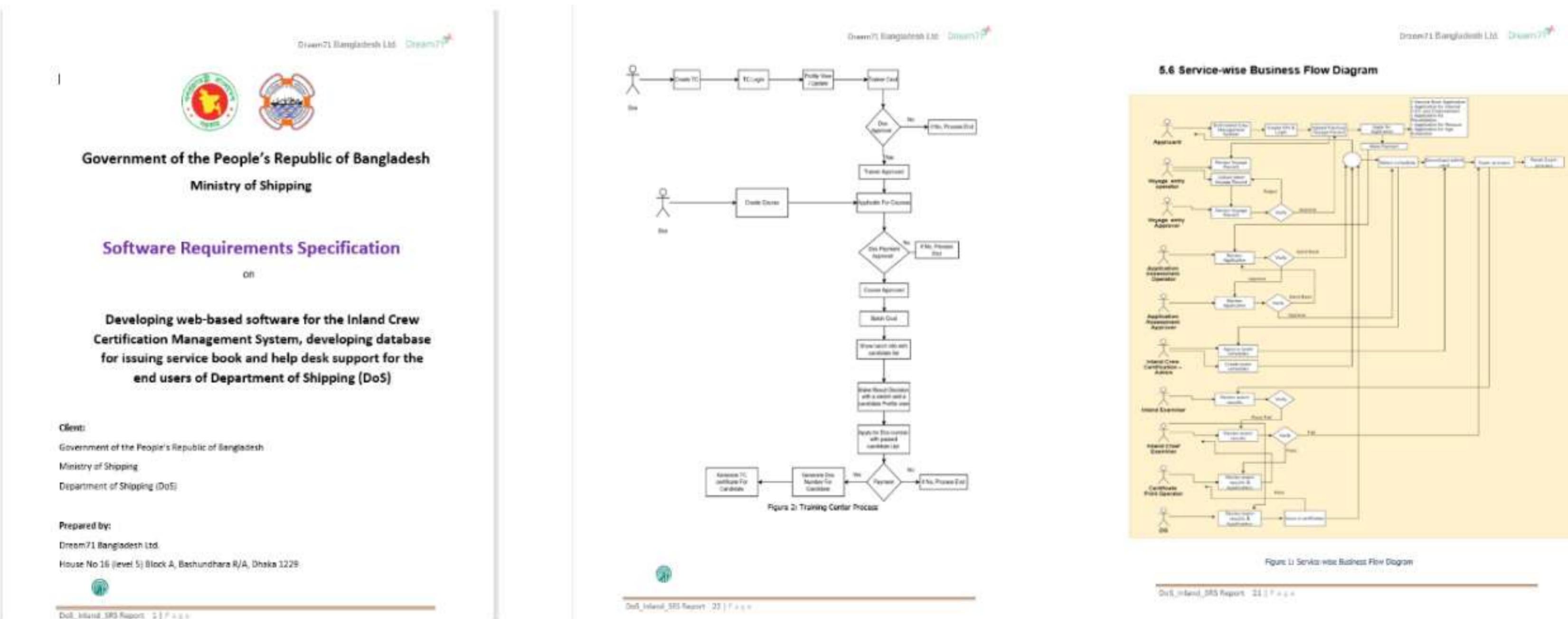


Fig:3.4.3 SRS of Department of Shipping (DoS) – Inland Crew Certification Management System.

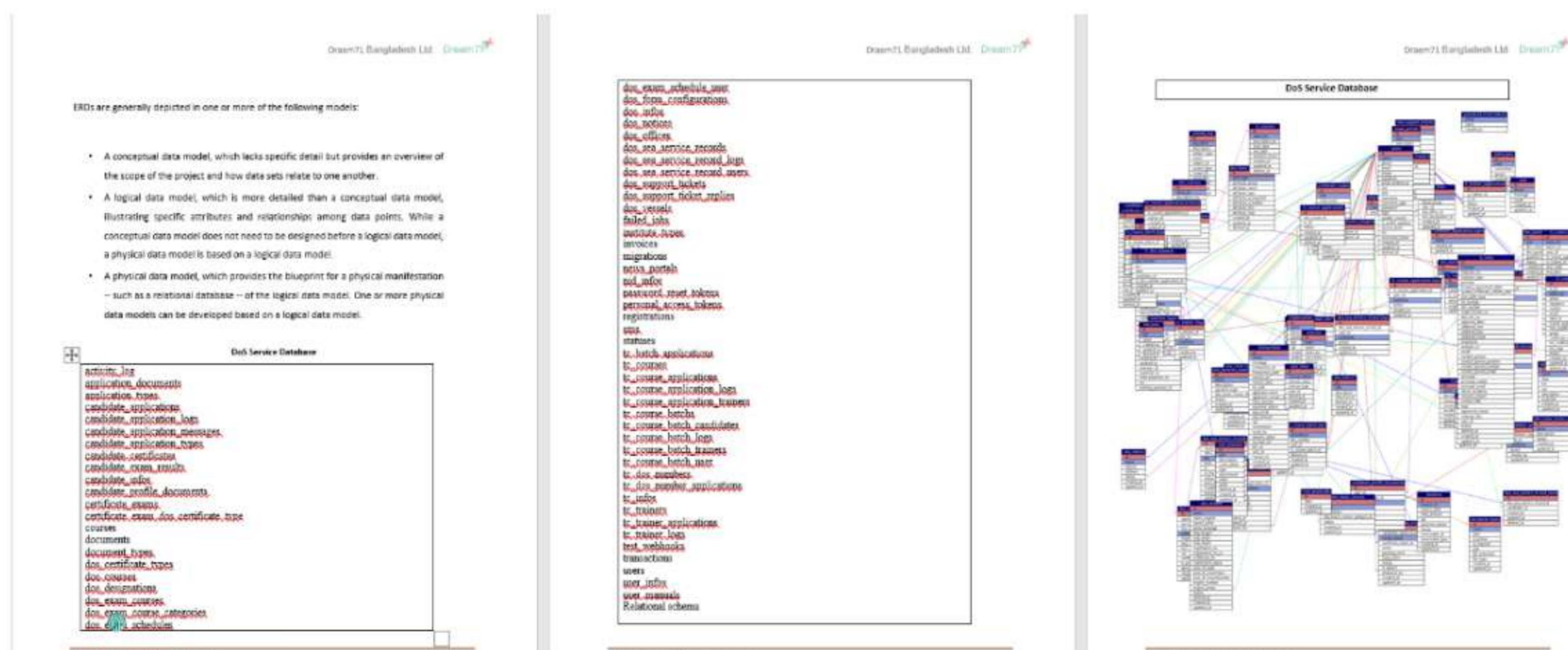


Fig:3.4.4 Work Module of Department of Shipping (DoS) – Inland Crew Certification Management System.

Intelligent Land Knowledge Management System (iLKMS):

★ Project Status :Live

The iLKMS project aimed to digitize all land-related public documents and make them available through a centralized, citizen-centric digital platform for the Ministry of Land (MoL). Documents included laws, acts, ordinances, manuals, and gazettes.

Key Contributions:

- Reviewed the Terms of Reference (ToR) to identify the scope of work and functional expectations.
- Developed manual test cases and executed UI, API, and security testing.
- Validated AI-based chatbot advisory system in Bangla and English.
- Ensured accessibility for users with disabilities and multilingual support.

Features Tested:

- Document search with metadata filters and OCR-based indexing
- Notification system for subscribed legal document updates
- Blockchain authentication for digital document integrity
- Multi-format export (Word, PDF, Excel)

This project provided exposure to advanced technologies such as AI/ML, OCR, and blockchain, applied in a government context.

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Dream71 LEADS
অ্যাপস ডাউনলোড

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Fig 3.4.5 Intelligent Land Knowledge Management System (iLKMS) – Ministry of Land

Re-designing, Management and Maintenance of IT infrastructure and Online System of NGOAB:

★ Project Status : Not live yet work is in progress.

This project was undertaken for the NGO Affairs Bureau (NGOAB) and UNDP to digitize NGO registration and renewal processes, and to support the **ISPAT project**, which focused on creating a centralized portal for data management and document access.

Key Contributions:

- Designed a comprehensive **data collection model** for NGO registration and renewal processes.
- Used **Google Forms** and custom extensions to collect structured data from various NGOs.
- Conducted **manual data verification** and assisted in formatting entries for import into the main system.
- Provided **quality checks** on forms, automated reports, and linked documents.

Features Supported:

- Centralized data collection through dynamic forms.
- Categorization of NGO profiles and renewal statuses.
- Real-time dashboard integration for visual tracking.
- Backend data export with CSV/PDF generation.

This project gave me practical experience in process digitization, cloud-based data tools, and low-code automation techniques for governmental data tracking systems.

Tools & Technologies Used

- **Manual Testing:** Based on SRS/ToR documents
- **API Testing:** Postman
- **Performance Testing:** Apache JMeter
- **Project Management:** Trello
- **Frameworks Observed:** Laravel, OCR tools, Google Workspace
- **Security & Accessibility:** OTP, CAPTCHA, Blockchain, Unicode, Speech-to-Text

Learning Outcome

Working with Dream71 Bangladesh Ltd. allowed me to practically apply QA methodologies to large-scale government projects. I learned to:

- Interpret complex SRS and ToR documents
- Execute structured testing (manual, performance, API)

- Design data-driven workflows using digital tools like Google Forms
 - Communicate effectively within agile development teams
 - Validate features focused on public service delivery and legal compliance

These experiences significantly contributed to my professional development and prepared me for real-world roles in software quality assurance and digital transformation.

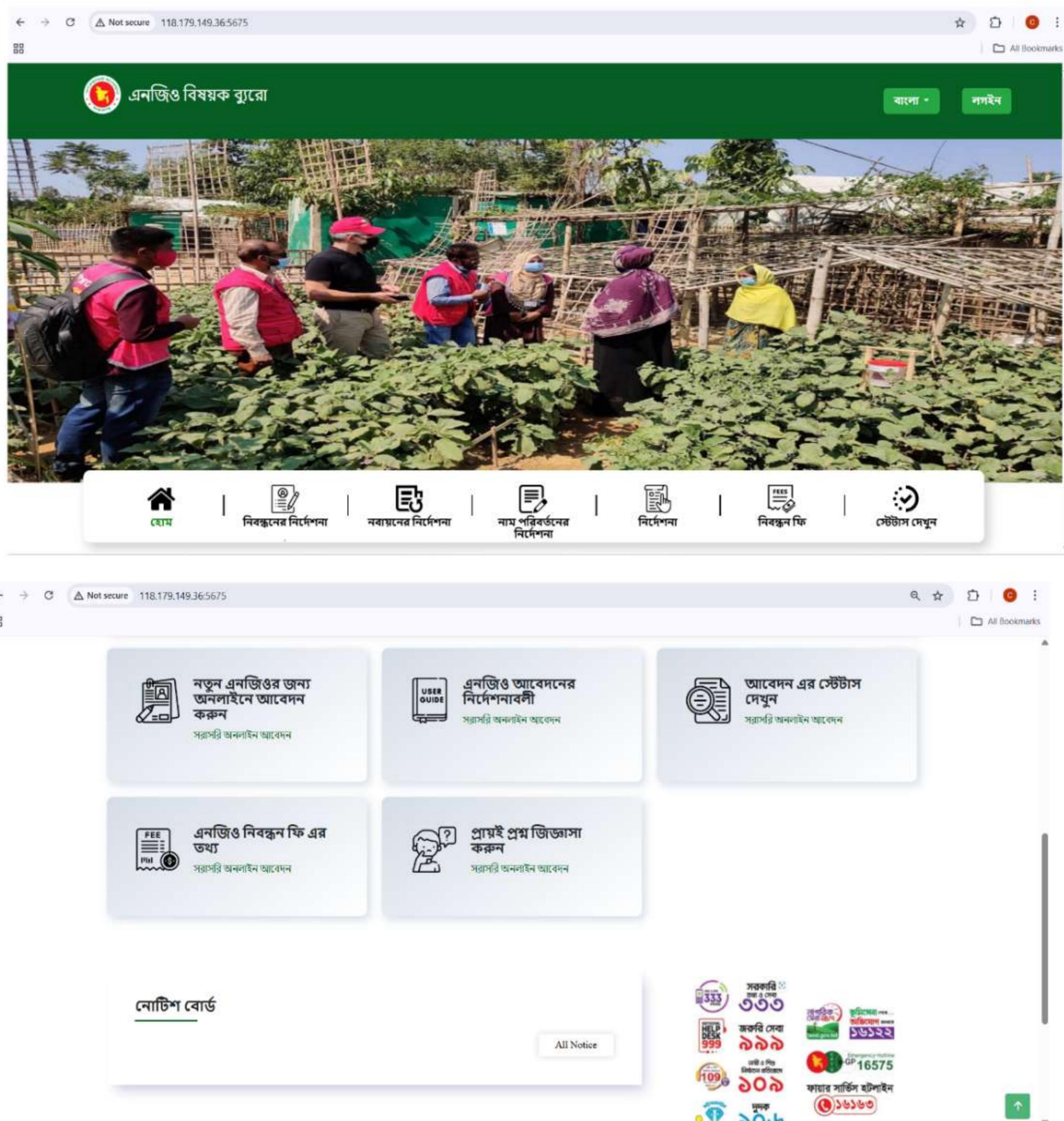


Fig 3.4.6 Re-designing, Management and Maintenance of IT infrastructure and Online System of NGOAB

সংস্থার বিবরণ
সংস্থার নাম (English)
DIAKONIA / Swedish Free Church Aid
নিবন্ধন নম্বর (English)
01
নিবন্ধন তারিখ
Wed Apr 22 1981 00:00:00 GMT+0600 (Bangla)
মেয়াদ উত্তীর্ণ তারিখ
Fri May 15 2020 00:00:00 GMT+0600 (Bangladesh Standard Time)
নিবন্ধন সার্টিফিকেট (ফ্লান কপি)
Wed May 14 1930 23:53:20 GMT+0553 (Bangla)
সংস্থার ঠিকানা (বিস্তারিত)
Dhaka

```
function onOpen() {
  var ui = SpreadsheetApp.getUi();
  ui.createMenu('User Actions')
    .addItem('Find & Edit সমিতির বিবর খন্দ', 'openProfileEditGoogleForm')
    .addToUi();
}

function openProfileEditGoogleForm() {
  var ui = SpreadsheetApp.getUi();
  var response = ui.prompt('Enter NGO Name to Edit');
  var ngoName = response.getResponseText();

  if (ngoName) {
    var sheet = SpreadsheetApp.getActiveSpreadsheet().getActiveSheet();
    var data = sheet.getDataRange().getValues();

    for (var i = 1; i < data.length; i++) {
      if (data[i][2] == ngoName) {
        var ngoNameEn = encodeURIComponent(data[i][1]);
        var regDate = encodeURIComponent(data[i][3]);
        var validupto = encodeURIComponent(data[i][4]);
        var regCertificateScanCopy = encodeURIComponent(data[i][5]);
        var ngoAddressDetails = encodeURIComponent(data[i][6]);
        var primaryOfficeAddress = encodeURIComponent(data[i][7]);
        var ngoMobileNumber = encodeURIComponent(data[i][8]);
        var ngoEmail = encodeURIComponent(data[i][9]);
        var konGeshinNgo = encodeURIComponent(data[i][10]);
        var ngoHeadNameEn = encodeURIComponent(data[i][11]);
        var ngoHeadDesignation = encodeURIComponent(data[i][12]);
        var ngoHeadAddress = encodeURIComponent(data[i][13]);
        var ngoHeadCitizenship = encodeURIComponent(data[i][14]);
        var ngoHeadMobileNumber = encodeURIComponent(data[i][15]);
        var ngoHeadEmail = encodeURIComponent(data[i][16]);
        var donorOrganizationsNameEn = encodeURIComponent(data[i][17]);
        var donorOrganizationsAddress = encodeURIComponent(data[i][18]);
        var letterOfIntentScannedCopyLocFromTheDonorOrganization = encodeURIComponent(data[i][19]);
        var amountOfFfLendedOrNotationInForeignCurrencyBangladeshiTaka = encodeURIComponent(data[i][20]);
        var chalanScanCopy = encodeURIComponent(data[i][21]);
        var accountNumberEn = encodeURIComponent(data[i][22]);
        var bankNameEn = encodeURIComponent(data[i][23]);
        var branchEn = encodeURIComponent(data[i][24]);
      }
    }
  }
}
```

Form Responses 1 - Total NGO List-Alphabetwise											
Timestamp	সংস্থার নাম (English)	নিবন্ধন নম্বর (English)	নিবন্ধন তারিখ	বেসাম ডাক্তান জাতীয়	নিবন্ধন সার্টিফিকেট (ক্ষয়াপ কর্তৃ)	সংস্থার ঠিকানা (বিবরণিত)	ঠিকান কার্যালয়ের ঠিকানা	সংস্থার প্রধানের নম্বর	সংস্থার ইমেইল	সংস্থার বেগুনী	
17/05/2025 14:33:59	Agradut Sangstha-AS	3042	2016-10-10	2021-10-10		House-0522/01, Kalbari Road, Bholi Sagar, Bholi.	House-0522/01, Kalbari Hoai	Mobile: 01714799705	asingo.bholi@gi		
13/05/2025 09:48:22	Action for Rural Poor (ARP)	2796	2013-05-27	2018-06-26		VII: Fazilpur, Post: Tegria, UZ: Madarganj, Dist: Jamalpur.	VII: Fazilpur, Post: Tegria, UZ:	Phone: 01772898145	jatidulislam@4		
18/05/2025 11:28:40	Karimpur Nurjanan Shamsui	3329	2022-10-19	2032-10-18		Kashiram, Karimpur, Kaliganj, Lalmohimmat.	Kashiram, Karimpur, Kaliganj	Phone: 01710987500	kmsus.org@gn		
07/05/2025 11:51:40	Alor Dishaari Sangstha (ADS)	2265	2007-08-26	2012-06-26		Registripara, Tangaili Sagar, Tangail.	Registripara, Tangaili Sagar, T	মোবাইল: 01481-757677,	ngoads1998@ci		
04/05/2025 12:45:44	Asia Arsenic Network	1609	2001-01-16	2006-01-16		NPO H- 208, 2-9-6 Tsurunoshima, miyazaki, 88-0014 Japan	NPO H- 208, 2-9-6 Tsurunosh	Not found	Net found		
14/05/2025 10:52:44	Humanitarian Development	2345	2008-04-28	2013-04-28		Siddikur Rahman Bhaban, 2 Floor, Staff Quater Road, Barguna	Siddikur Rahman Bhaban, 2 F	021913259256	not found		
20/05/2025 11:23:47	Aksha Social Services Bangl	1532	2000-06-07	2005-06-06		Ali Manji, Balubari, Dinajpur-5300	Ali Manji, Balubari, Dinajpur	E Phone: 0531-64544	Not found		
18/05/2025 11:46:22	Disability Inquisition Activiti	3205	2019-07-01	2029-06-30		Bishnoikhali Bazaar, Khorikhali, Jhenaidah Sagar , Jhenaidah.	Bishnoikhali Bazaar, Khorikhali,	01768940290, 01928356000	ceorsis@bishnoi		
15/05/2025 14:27:44	Hope Bangladesh	2921	2015-04-06	2020-04-05		House No. 13/T, Block- C, Bashundhara R/A, Badda, Dhaka-1226.	Gigmang Verdia, Goljeon-Don	Not Found	Not Found		
19/05/2025 10:14:58	Integrated Development For	3289	2022-4-26	2032-4-25		House #2/C/1 (Ground Floor), Road #1, Shyamoli, Dhaka-1207, Bangladesh	House #2/C/1 (Ground Floor)	01711009210, 01779591405	charity id@gn		
17/05/2025 14:32:21	Fareea Lara Foundation	3154	2019-03-06	2029-03-05		House 16/A (2nd Floor), Road #2, Shyamoli, Dhaka-1207	House 16/A (2nd Floor), Roa	01715259999, 9138446	larafoundation@		
06/05/2025 11:30:10	Assistance for Poor Peoples	1995	2005-01-11	2010-01-11		Taj mir, progati para, chilahati,dinajpur,nilamari	Taj mir, progati para, chilahati,	01782298551	2005 app@gn		
12/05/2025 10:40:10	Poly Seba Bohumukhi Sang	2556	2010-03-30	2015-03-30		Torkley Bandar, Upazilla, Gouraudia, Dist. Barisal, Bangladesh	Torkley Bandar, Upazilla, Gour	01683010699	a_akond@osos		
17/05/2025 11:33:43	Aruni Samaj Kallayan Sangst	3060	2016-12-14	2021-12-14		Bakpara, Chowgacha, Jessor	Bakpara, Chowgacha, Jessor	01724310716	arunichowgach		
27/04/2025 13:04:13	Symbiosis Bangladesh	895	1995-02-09	2000-02-08		Rupayon View, Flat#D-1, Road#2/A, Sector#5, Uttara, Dhaka	P.O. Box: 6166, Mitchelton, OI	0733555985	officenone@sym		
27/04/2025 10:49:00	Ain-O-Salish Kendra	721	1993-05-28	1998-06-27		7/17 Block-B, Lalmonia, Dhaka	7/17 Block -B, Lalmonia, Dhak	+88029881265	abed.th@brac.r		
13/05/2025 10:29:18	Aspada Paribesh Unnayan F	2394	2008-11-19	2013-11-19		House#193(1st Floor), Road#01, New DOHS Mohaksali, Dhaka-1206	Shapna Kutir, House#G/23, B	01713031551	ed.aspada@gn		
19/05/2025 11:59:49	Foundation for Advancemer	3282	2021-11-26	2031-11-23		Not Found	1/13 A, Iqbal Road, Mohammad	Not Found	Not Found		
06/05/2025 15:47:04	Agrani Mohila Unnayan Sang	1880	2003-10-15	2008-10-14		AMUE, 226, Nilgonj, Tatipara, Jessor	AMUE, 226, Nilgonj, Tatipara,	0171207907	agraniesayun@		
05/05/2025 12:19:11	Aao Bon Sonar Bangla	1804	2003-03-10	2008-03-09		Housing Estate, Post: Joypurhat, Upa & Dist: Joypurhat-5900	Housing Estate, Post: Joypur	01712142875	agsb55@yahoo.c		
06/05/2025 15:22:48	Association of Human Dev	1853	2003-07-03	2008-07-02		Jahangir Tower (7th floor),10 Kawran Bazar, Dhaka-1215, Bangladesh	Jahangir Tower (7th floor),10	01726783665	dulalcd@yahoo.		
06/05/2025 10:29:03	Community Participation fo	2048	2005-12-21	2010-12-20		65/07/izatatal (3rd floor), Dhaka-1209, Bangladesh	65/07/izatatal (3rd floor), Dhaka-1209	8626806	ahsanah635@b		

Fig 3.4.7 Work Module of Re-designing, Management and Maintenance of IT infrastructure and Online System of NGOAB

Educational Game for the Ministry of Education Timor-Leste:

★ Project Status :Live

The Environmental Awareness Game is a mobile application designed to promote environmental consciousness through interactive gameplay set in East Timor. Featuring four regions—Atauro Island, Dili, Coffee Region, and Oe-cusse—it educates players on sustainable practices while showcasing the region's biodiversity.

The game begins with an animated Crocodile Story, introducing environmental themes. Players navigate a multi-level map, completing region-specific tasks to unlock challenges. Tasks are interactive, blending problem-solving with educational content for an engaging experience.

Each region highlights a key environmental topic:

- **Dili:** Waste management and recycling.
- **Atauro Island:** Marine conservation and waste impact on ecosystems.
- **Coffee Region:** Climate change and tree plantation.
- **Oe-cusse:** Sustainable farming practices

The game aims to raise awareness about environmental pollution, its risks, and solutions for ecological balance. It encourages eco-friendly habits and highlights Oe-cusse's biodiversity and challenges, fostering sustainable thinking.

Developed for Android, the game features an intuitive interface, engaging animations, and responsive gameplay. Available on the Google Play Store ([link](#)), it ensures accessibility for diverse users.

This internship project combines education and entertainment, using East Timor's context to promote environmental stewardship. The game's focus on critical issues equips players with knowledge to support sustainability.



Fig 3.4.8 Educational Game for the Ministry of Education Timor-Leste

CHAPTER No. 4

Learning And Skill Development

Learning and skill development during Software Quality Assurance (SQA) and project management is essential for adapting to evolving technology and methodologies, ensuring quality, and meeting project goals effectively.

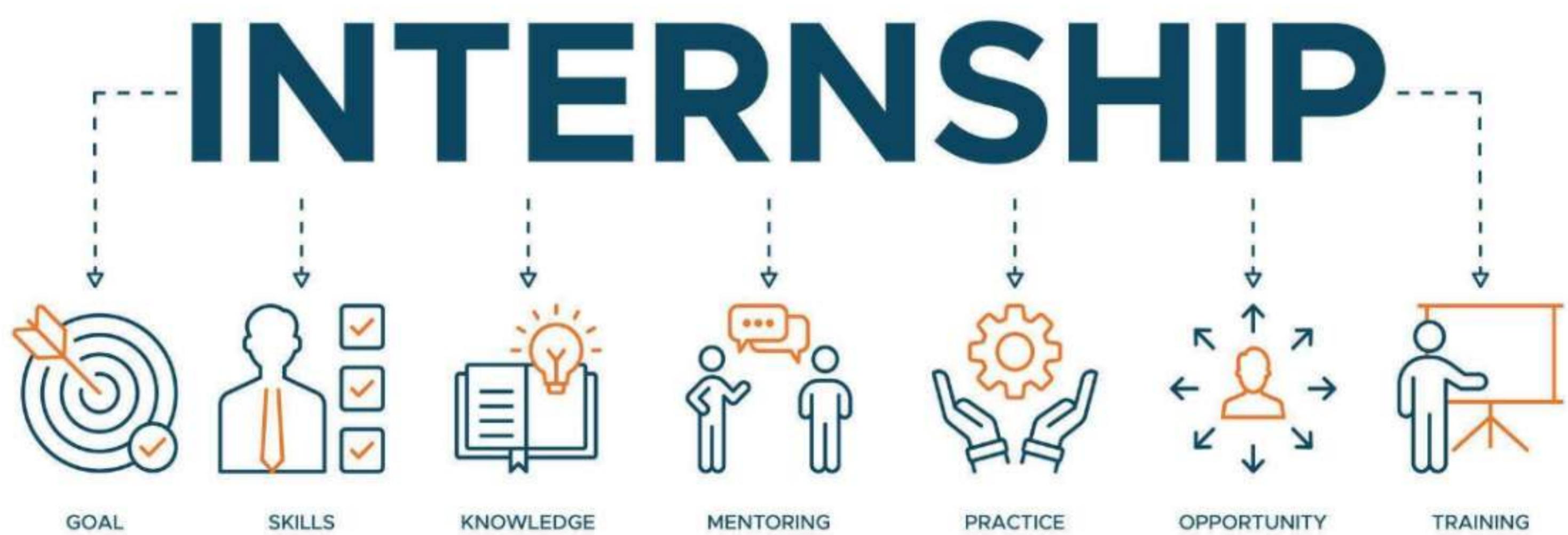


Fig:4.1.1 Learning And Skill Development during Internship

4.1 Technical Skills acquired during the Internship

During an internship in Software Quality Assurance (SQA) and project management, interns can acquire a range of technical skills that are crucial for career advancement. Here are some of the key technical skills typically gained:

1. Software Testing and QA Tools

- Manual Testing Skills: Interns develop an understanding of various testing methods, including functional, regression, and user acceptance testing (UAT). They learn to create and execute test cases and identify and document bugs.
- Automation Testing Tools: Exposure to tools like Selenium, JUnit, or Appium helps interns understand automation scripts and testing workflows. This skill is critical for improving test efficiency and ensuring consistency across test cycles.
- Bug Tracking and Issue Management: Interns often use bug-tracking tools like JIRA, Bugzilla, or Asana to record, manage, and prioritize bugs. They learn how to document issues accurately and collaborate with developers for resolution.

2. Project Management and Collaboration Tools

- Agile Methodologies and Scrum: Interns working in project management learn Agile and Scrum principles, including sprint planning, daily stand-ups, and sprint retrospectives. These skills help them work effectively in dynamic, iterative environments.
- Project Management Software: Tools like Trello, Asana, or Microsoft Project are used to manage tasks, deadlines, and team assignments. Interns learn how to track project progress and report on timelines, which is crucial for keeping projects organized.
- Communication and Collaboration: Interns gain experience with tools like Slack, Microsoft Teams, and Google Workspace, which are essential for team communication, file sharing, and maintaining project transparency.

3. Data Analysis and Reporting

- Data-Driven Testing and Metrics Analysis: Interns acquire skills in gathering, analyzing, and reporting data from test results to assess quality metrics. They learn to create dashboards and reports for stakeholders, often using Excel, SQL, or specialized data tools.
- Performance Testing Tools: Exposure to tools like JMeter, LoadRunner, and Postman helps interns understand how to assess application speed, stability, and scalability. They may conduct performance tests under different conditions to ensure software reliability.

4. Scheduling and Time Management

- Calendar and Scheduling Tools: Using scheduling tools like Google Calendar, Microsoft Outlook, or Calendly enables interns to manage meeting schedules, track deadlines, and coordinate availability across project team members.
- Time-Tracking Software: Exposure to time-tracking tools like Clockify, Toggl, or Harvest helps interns understand how to monitor time allocation and productivity across tasks, which is essential for tracking project costs and productivity.

Through hands-on practice and mentorship, interns acquire these technical skills, which provide a foundation for future roles in SQA, project management, and software development.

4.2.1 Understanding of SQA & Project Management Concepts

- Quality Assurance vs. Quality Control: Interns learn the difference between quality assurance (proactive, process-oriented) and quality control (reactive, product-oriented). QA focuses on preventing defects through process improvements, while QC identifies and fixes defects in products.
- Software Development Life Cycle (SDLC) in SQA: Interns understand how SQA integrates into the SDLC stages, including requirements gathering, design, coding, testing, deployment, and maintenance. They learn that SQA is essential at each phase to ensure product quality and functionality.
- Testing Types and Techniques: Exposure to various testing types (unit, integration, system, acceptance) and methods (black-box, white-box, and gray-box testing) provides a strong foundation. Interns learn to apply the right techniques based on project needs, ensuring thorough validation and verification.
- Automation vs. Manual Testing: Interns understand when to apply automation (for repetitive tasks) versus manual testing (for exploratory or usability testing), learning to balance efficiency with test coverage.

2. Understanding of SDLC Concepts

- Interns gained hands-on experience with all key phases of the Software Development Life Cycle (SDLC)—requirement analysis, design, development, testing, deployment, and maintenance. I worked with SRS and ToR documents to create test cases aligned with business needs. Agile methodologies were followed, using tools like Trello for task tracking and Postman for API validation. I learned the importance of proper documentation, iterative testing, version control, and stakeholder feedback in delivering scalable and secure software systems. This experience strengthened my practical knowledge of structured software engineering practices.
- Resource and Time Management: Interns grasp the importance of allocating time, budget, and resources efficiently.

3. Skills in Communication and Collaboration

- Stakeholder Communication: Interns learn how to communicate project status, risks, and changes with stakeholders, ensuring transparency and alignment with project goals.
- Collaboration with Cross-Functional Teams: SQA and project management interns often work with development, design, and marketing teams.

4. Practical Exposure to Tools and Technologies

- Project Management Tools: Exposure to tools like JIRA, Trello, and Microsoft Project helps interns develop proficiency in task tracking, reporting, and milestone management.
- SQA Tools: Interns learn how to use testing tools such as Selenium, Postman, and JMeter, building their ability to conduct both manual and automated testing for diverse software applications.

5. Developing an Eye for Detail and Analytical Thinking

- Problem Identification and Resolution: Interns build skills in identifying issues, documenting bugs, and analyzing root causes. They develop analytical thinking to ensure thorough testing and quality maintenance.
- Continuous Improvement Mindset: SQA and project management concepts emphasize process improvement and iterative refinement, helping interns understand the value of continuous quality and efficiency enhancements.

CHAPTER No. 5

PROJECT EXPERIENCES

During my internship at Dream71 Bangladesh Ltd., I had the opportunity to work on several impactful digital transformation projects for government and international organizations. Each project presented unique challenges and offered distinct learning opportunities in the field of Software Quality Assurance (SQA).

5.1 DLS License Management System (Category-2 License)

Client: Department of Livestock Services (DLS), Bangladesh

This project automated the licensing process for Category-2 animal feed importers/exporters. It introduced digital workflows for application, approval, inspection, and renewal.

Responsibilities:

- Analyzed SRS and developed detailed test cases.
- Performed manual and API testing (Postman).
- Validated workflows like license suspension, renewal, and PDF generation.

Technologies Used: Laravel, REST API, Trello, Postman

5.2 Inland Crew Certification Management System (DoS)

Client: Department of Shipping (DoS), Ministry of Shipping

This ERP system managed inland crew certifications, exam scheduling, and service records.

Responsibilities:

- Tested multi-role features (applicants, surveyors, examiners).

- Validated admit card generation, results, and secure access.
- Conducted load testing using JMeter.
- **Technologies Used:** Laravel, MySQL, JMeter, Postman

5.3 Intelligent Land Knowledge Management System (iLKMS)

Client: Ministry of Land (MoL), Bangladesh

iLKMS digitized land-related legal documents with OCR, metadata, and AI-based advisory.

Responsibilities:

- Reviewed ToR, created test cases, and validated AI chatbot.
- Tested OCR document search, blockchain-based authentication, and multilingual UI.

Technologies Used: AI/ML, OCR, Blockchain, Unicode, Laravel

5.4 Re-designing, Management and Maintenance of IT infrastructure and Online System of NGOAB

Client: NGO Affairs Bureau (NGOAB), Bangladesh

This project digitized NGO registration/renewal and supported the ISPAT portal for centralized data tracking.

Responsibilities:

- Designed Google Forms and verified structured data submissions.
- Managed backend reports, data classification, and automation.

Technologies Used: Google Workspace, CSV Automation, Data Visualization

5.5 Educational Game for the Ministry of Education, Timor-Leste (UNDP Project)

Client: UNDP & Ministry of Education, Timor-Leste

This international project involved developing an educational game to support interactive learning for primary and secondary students in Timor-Leste.

Responsibilities:

- Tested game UI/UX for multilingual support and user engagement.
- Validated interactive quizzes, animations, and game logic consistency.

- Ensured compliance with UNDP's content and accessibility standards.

Technologies Used: Unity Game Engine, Firebase, JSON, Adobe Illustrator (for assets).

CHAPTER 6

ABOUT THE COMPANY

6.1 Introduction to Dream71 Bangladesh Ltd.

Dream71 Bangladesh Ltd. is a leading software company in Bangladesh, specializing in innovative technology solutions such as E-Governance Systems, Web and Mobile Applications, Game Development, Artificial Intelligence (AI), Internet of Things (IoT), and Blockchain Technologies. With a commitment to excellence and a passion for digital transformation, Dream71 plays a pivotal role in advancing Bangladesh's technological landscape.

As a prominent software exporter, Dream71 delivers cutting-edge solutions to over 12 countries, including Japan, the Netherlands, UAE, Cameroon, East Timor, Nigeria, and Mozambique. In Bangladesh, the company collaborates with key government and international organizations, such as Aspire to Innovate (a2i), ICT Division, Biman Bangladesh Airlines, WASA, Ministry of Foreign Affairs, Public Works Department (PWD), Health Engineering Department, Ministry of Commerce, Local Government Engineering Department (LGED), Bangladesh Submarine Cable Company Limited, Department of Shipping, BSCIC, PKSF, SME Foundation, Bangladesh Bank, Ministry of Land, and Public Health Engineering Department. Internationally, Dream71 works with development partners like UNDP (in Bangladesh, Turkey, and East Timor), World Bank, ILO, and JICA, strengthening its position as a trusted global technology partner.

Dream71 fosters a vibrant and dynamic workspace designed to craft the future through state-of-the-art technology, promoting productivity, collaboration, and employee well-being. The company's mission is to redefine the software industry by delivering high-quality, innovative digital solutions that empower individuals and businesses. Its vision is to become a global leader in the software technology sector, recognized for innovation, impact, and excellence, while fostering a dynamic and collaborative corporate culture that values creativity, adaptability, and continuous learning.

Services :

- E-Governance Solutions.
- Web Application Development.
- Game Development.
- Business Automation with Artificial Intelligence (AI).
- iOS App Development
- Android App Development.
- Multimedia Content Development.
- Blockchain Technologies.
- Software Development.

Company Details:

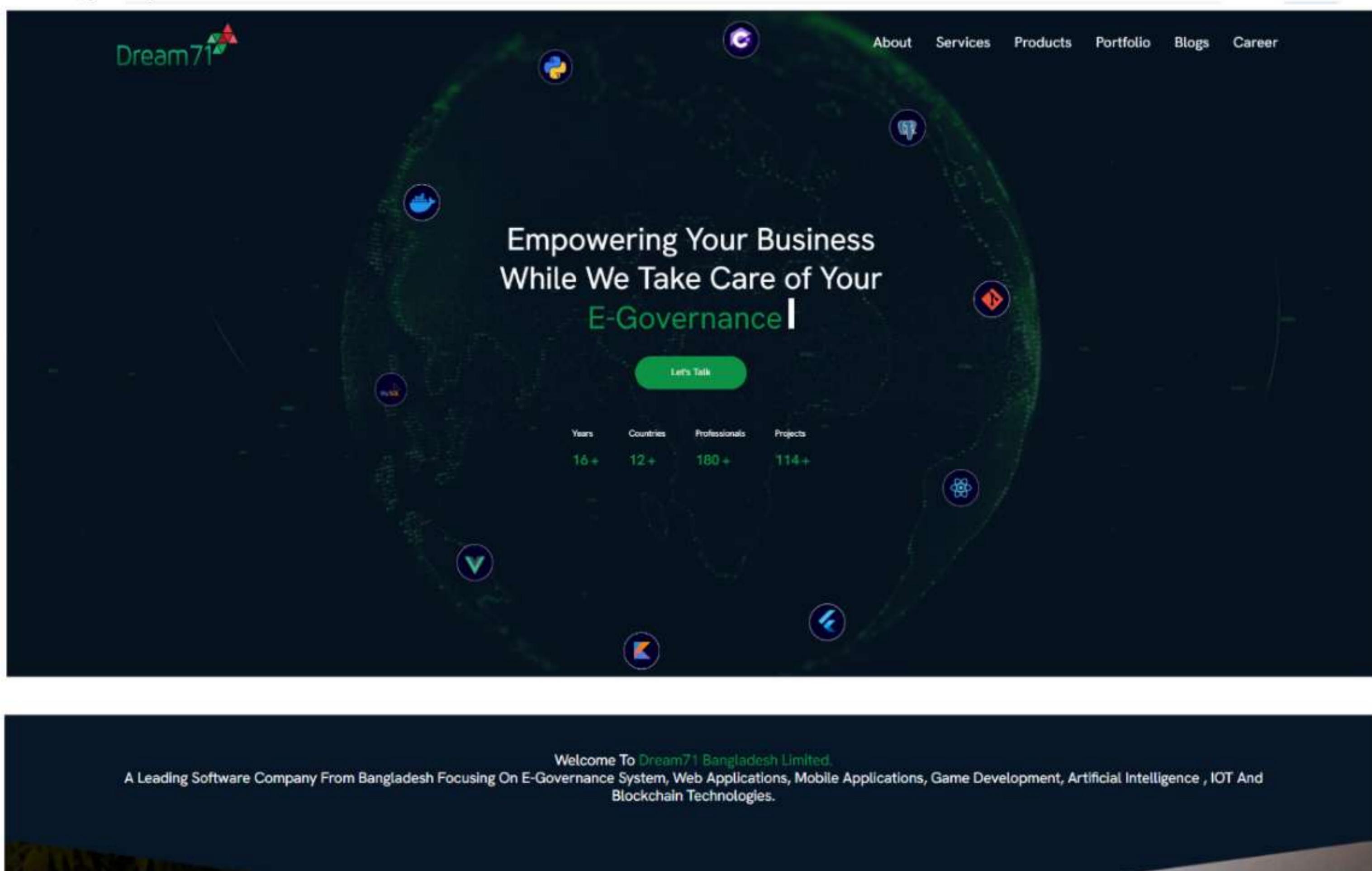


Fig:6.1.1 Dream71 Home page Interface

Email Id: info@dream71.com

Mobile: +8801715091734

Web: <https://www.dream71.com>

Address: House No 16 (Level 5 and 9) Block - A, Basundhara R/A, Main Road, Dhaka-1229,Bangladesh.

6.2 Areas of Improvement

To suggest areas of improvement for **Dream71 Bangladesh Ltd.** a comprehensive evaluation of its operations, market presence, and internal processes would be ideal. However, based on general industry practices, here are some potential areas of improvement:

Market Research and Customer Insights:

- Implement a more robust customer feedback loop and market analysis to better understand user needs, identify trends, and tailor products or services accordingly. Engaging with customers through surveys, beta testing, and user reviews could help improve product quality.

Brand Awareness and Marketing:

- Increase efforts in brand awareness through digital marketing, social media, content creation, and influencer partnerships. Alienide Interactive could explore expanding its reach by targeting new demographics or entering untapped geographical markets.

Talent Acquisition and Employee Retention:

- Fostering a strong company culture that emphasizes collaboration and creativity can improve employee retention. Alienide Interactive could invest in recruitment strategies to attract top talent and continue upskilling the existing team through training and development programs.

CHAPTER 7

CONCLUSION

In conclusion, my internship at **Dream71 Bangladesh Ltd.** has been a highly valuable and enriching experience, providing me with practical exposure to **Software Quality Assurance (SQA)**. Throughout this internship, I was able to bridge the gap between theoretical knowledge and real-world application, gaining hands-on experience in key aspects of software development, testing, and project coordination.

In **SQA**, I developed a deeper understanding of testing methodologies, tools, and practices that ensure software quality. I enhanced my skills in both manual and automated testing, learning how to identify, document, and resolve defects efficiently. The insights gained into the critical role of SQA in the software development lifecycle will be invaluable in my future career.

In **SDLC**, I acquired practical knowledge of different methodologies like Agile and Waterfall, and learned to effectively manage project timelines, resources, and team communication. The experience of contributing to the planning, execution, and monitoring of software projects has equipped me with essential skills for managing complex projects in any professional setting.

This internship has not only strengthened my technical abilities but also honed my communication, organizational, and problem-solving skills. It has provided me with a well-rounded perspective on the collaborative efforts required to deliver high-quality software. I am confident that the lessons learned and skills gained during this internship will serve as a strong foundation for my career in the software development industry.

I am grateful for the opportunity to work with such a talented and supportive team and I look forward to applying the knowledge and skills gained in my future endeavors.

CHAPTER 8

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