



Department of Software Engineering

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Internship on
Java based SW Development
At IBCS-Primax Software Bangladesh Ltd

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Approval

APPROVAL (Room- 603)

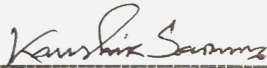
This internship titled on “**Internship on Java based SW Development**”, submitted by **Abdullah AL Habib (ID: 183-35-381)** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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Declaration

I'm Abdullah AL Habib, a Daffodil International University student with ID 183-35-381. I thus certify that, under the supervision of Syeda Sumbul Hossain, Department of Software Engineering, I successfully finished my internship as a Junior Programmer at IBCS-Primax Software Bangladesh Ltd. The IBCS-Primax Junior Programmer has been trained to complete a portion of the Practicum requirement for the Bachelor in Software Engineering. Additionally, I am stating that I did not prepare or submit this report prior for any other reason, incentive, or presentation by someone other than myself. Additionally, it is affirmed that none of the information from numerous websites and sources included in this research is plagiarized.

Supervised By:



31.10.2022

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First, I want to give the Almighty God my sincere gratitude and thanks for enabling us to successfully finish the final year internship with His help. The first thing I want to do is thank Syeda Sumbul Hossain, Senior Lecturer in the Department of Software Engineering at Daffodil International University in Dhaka, from the bottom of my heart for his unflinching advice. His comprehension, inspiration, guidance, and directions have given this work a strong foundation throughout the internship and report writing process. His contributions to the development of the concepts explored in this study have greatly aided in the completion of this work.

To everyone else who has helped and inspired me during my internship, whether directly or indirectly, I would also like to convey my gratitude. I appreciate IBCS-Primax Software Bangladesh Limited giving me the chance to intern at their Bespoke Software Development department. Many kind people helped me write the report by giving me the necessary data, information, procedures, and management processes, as well as by elaborating on numerous themes. I also want to thank the faculties and staffs of department of Software Engineering, Daffodil International University. Particularly Dr. Imran Mahmud, Head of the Department of Software Engineering, for their help in getting my internship done. I would especially like to thank my parents for their encouragement and support throughout my life and professional career. Finally, I would like to thank Allah, the Merciful, the Sublime, from the bottom of my heart.

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1 Introduction

1.1 Background

The purpose of an internship is to gain experience and identify a person's strengths. The area of specialization demonstrates our knowledge and how we collaborate. It enhances our swot analysis point with useful talents. Every time we work on a project, it helps us understand the importance of collaboration, fieldwork operational expertise, networking, communication, and presentation skills. Every action we take—including how we speak and write in emails—is monitored and taken seriously in our work. Any slip-up could permanently damage our reputation. Understanding how else to communicate with strangers, clients, superiors, or peers is essential. I received my B.Sc. in Software Engineering from Daffodil International University with a concentration in Cyber Security, and I feel that I need to put my knowledge into practice rather than just retain it. As a result, I may use my expertise of what I know and how the sector functions to explore different industries with their software development department as a junior programmer. IBCS-Primax Software Bangladesh Ltd. hired me for a paid internship as a junior programmer, which is the subject of this article. It covers the entire period of my junior programmer internship.

1.2 Motivation

It is critically important to acquire theoretical knowledge and apply it in the real world in order to advance our professional competence in the IT job market in order for an internship to gather practical experience in the field of IT. During my internship, I spent time enabling me with abilities and competence while adhering to all business rules. I decide to pursue an internship as my career choice for this reason. My internship forces me to confront the difficulties of the current job market. In the field of software development, I discovered that IBCS-Primax Software Bangladesh Ltd has a fantastic reputation for customer satisfaction and services. Onshore and offshore software development is a specialty of IBCS-Primax Software Bangladesh Ltd. I firmly believe that the opportunity to broaden my professional expertise in the IT job market is best provided by this internship.

1.3 Objectives

- To learn how to program computers in practice.
- To learn programming languages like Java, Javascript, Typescript, and others in practice.
- To learn how to use frameworks like Spring-Boot, Angular, and others.
- Acquiring important background information.
- Developing communication abilities.
- Communicates effectively with others.
- Demonstrates excitement and vigor.
- Works well as a group.
- Communication improvement kills.
- Boost my administrative abilities.
- Boost my research and analytical abilities.
- Awareness of important specialists.

1.4 Scope

In this document, I went over our business, all of our services, our workplace environment and culture, our corporate policies, how to conduct yourself while an internship at a business, and how our business develops software. The second section of the report discusses how I begin my internship and the kinds of work I accomplish while I'm there.

2 Company Overview

2.1 About

2.1.1 Vision and Mission

IBCS-PRIMAX set began its mission in 1989 with the goal of becoming a single-point provider of customer-centric IT solutions for both the domestic and global markets. The company aims to create expert business apps that are independent of technology. IBCS-PRIMAX provides services to help its esteemed clients achieve their business goals by addressing their varied information requirements.

Our mission is to develop a leading provider of IT solutions that consistently provides excellence in the work we do. This mission is built upon the knowledge and capacity of the company's personnel. [*Mission and Vision* 2019]

2.1.2 History

- Established in 1989 as joint Bangladesh UK joint venture
- Oracle Business Partner, 1991
- Oracle Certified Partner on Core Technology and Applications, 2004
- Oracle University Education Partner (Workforce Development Program), 2004
- Oracle First Line Support Partner 2006
- Oracle Certified Advantage Partner, 2006
- Oracle University Authorized Education Centre, July 2007
- CMMI Level 3 (Version 1.2) 2009
- ISO 9001:2008
- Partner with Oracle in ORACLE WORKFORCE DEVELOPMENT PROGRAM
- RedHat Training Partner 2010
- Zend Authorized Training Partner 2010

[*History and Milestones* 2019]

2.1.3 Location

The two major cities in Bangladesh, the port city of Chittagong and the capital city of Dhaka, both have IBCS-Primax branches. For the benefit of our clients in the USA, Canada, and other nearby nations, we are eager to enter the US market. [*About Us* 2019]

2.1.4 Partner

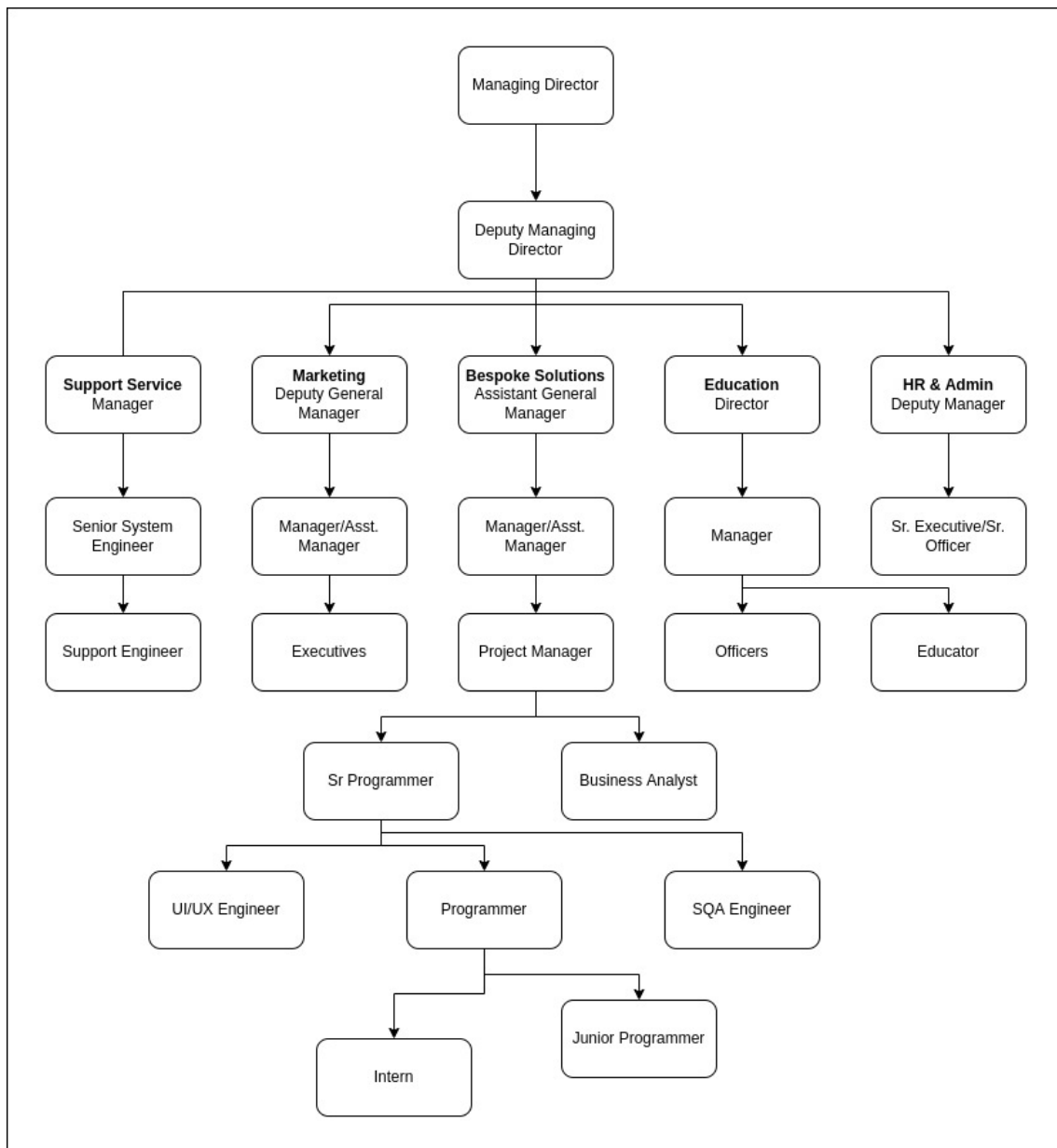
1. PricewaterhouseCoopers
2. Infor
3. Unisys
4. Opraxe International
5. Oracle
6. Veritas
7. TCS
8. InfoSys

[*Partners* 2019]

2.2 Products

1. Real Estate Management System
2. Insurance Management System
3. Oracle Forms Based Products
4. Custom Software Development

2.3 Organ-gram



2.4 Clients

2.4.1 Govt. Organizations

1. Ministry of Public Administration
2. Ministry of Planning
3. Bangladesh Police
4. Bangladesh Ordinance Factory
5. Bangladesh Biman
6. Dhaka Electricity Supply Company Ltd.
7. Palli Karma-Sahayak Foundation (PKSF)
8. Etc.

2.4.2 Private Organizations

1. Grameenphone Ltd
2. EXIM Bank Ltd
3. Navana Real Estate Ltd.
4. Sunlife Insurance Ltd.
5. Etc.

3 Company Culture And Carrying Out

3.1 Department/Section Overview

There are 5 departments in IBCS-Primax Software Bangladesh Ltd.

1. Bespoke Software Department
2. HR/Admin Department
3. Marketing Department
4. Support Service Department
5. Education Department

I work in the Bespoke Software Department. It mainly works for customized software development. We have some projects from different govt. and non-govt. organizations with their custom business requirements. We need to implement those features and business logic into their application.

3.2 Working Team

3.2.1 Planning-PPS and RMS Team

Planning represents the Ministry of Planning of the Government of the people's republic of Bangladesh. They need some customized software/ERP with open-source DB like PostgreSQL. The Planning Team dedicatedly works for them. The planning team contains many sub-team like PPS Team, RMS Team, and GIS Team. The team name is actually based on the module name of the software. The full form of those are PPS- Project Planning System, RMS- Research Management System, and GIS- Geographic Information System. Every team formation is One Team lead, One Business Analyst, One Senior programmer, One Programmer, And One Junior Programmer (Intern)(Me). And the overall supervision by the Project Manager.

3.2.2 MoPA-Team

MoPA represents the Ministry of Public Administration of the Government of the people's republic of Bangladesh. They need some customized software/ERP with oracle servers. The MoPA-Team dedicatedly works for them. The team formation is One Project manager, One Business Analyst, Two Senior Programmers, One Programmer, And One Junior Programmer (Intern)(Me).

3.3 Working Environments and Protocols

3.3.1 Rules and Regulations

1. The workplace requires physical work.
2. The intern is required to have his or her own computer/laptop to work on the projects.
3. TA/DA will be provided in addition to pay.
4. Their working hours are set. They must pass via a card/fingerprint check to both enter and leave.
5. Making accurate and truthful entries on the time sheet.
6. The staff are closely involved in the fundamental day to day operations of the company.
7. Every department's personnel were required to attend specialized training based on their skill.
8. The office does not allow early leaves unless there is a valid reason. To leave early or take a leave, they must obtain authorization from the supervisor or manager.
9. Must inform the team and Manager of leave.
10. Need to give updates on work on ZOHO every day.

3.3.2 Facilities

1. Launch Subsidies
2. In-House Training Facility
3. Work on Big projects
4. 2 holidays in a week
5. Big projects to work on
6. Be familiar with big software architectures

3.4 Internee Life Cycle

3.4.1 Recruiting

I was searching for an internship in bdjobs. After a while, I found that IBCS-Primax Software Bangladesh is hiring for an internship on multiple projects. So, I just applied for one. After some days they call for the first phase interview. The first interview is a technical interview. After completing the first step, they give me a project to complete. After completing the first one, they give me another one. After completing the project phase, they again call me for the final interview with the Deputy managing director of the company. And successfully completing all the steps I got an appointment letter from the company.

3.4.2 Professional Environment

The professional environment of IBCS-Primax software Bangladesh is very great for newcomers. There are a lot of things to learn for fresher. They works usually on Big software or ERP. So they give a great hands-on experience in software architectures and design. Also, there are many inhouse training facilities for interns because the company has a separate training department. They provide training for outsiders.

3.5 First Day At Office

At that time I live beside the DIU Permanent campus and my office was in Mohammadpur, Dhaka. So, I have to go a long way to reach my office. I wake up early in the morning and prepare for the office. I take various means of transport for reaching my office like Bus, Leguna, Rickshaw. After reaching the office, I need to do some paperwork first, eg, the joining letter. Then got my laptop and was introduced to my team. One of my team members gives a brief about our project and what parts I need to work on, and what the learning opportunity was for me.

4 Technology Employing

4.1 Fundamental Technologies

The technology mainly used in MoPA and Planning projects is written below.

Backend:

- Java
- Spring Boot
- Hibernate
- Spring Security
- Auth2

Frontend:

- Typescript
- Angular
- Rest Api
- Material UI
- Tailwind CSS
- TSLint

Database:

- Oracle RAC for MoPA
- PostgreSQL for Planning

DevOps:

- Tomcat Server
- CI/CD
- Jenkins
- Docker
- NGINX Reverse Proxy.

4.2 Supportive Technologies

The supportive technology mainly used in MoPA and Planning projects is written below.

- IntelliJ IDEA
- Webstorm
- VSCode
- Docker Hub
- Bitbucket
- Gitlab
- Zoho Project Management Tool
- Postman
- Swagger-UI

4.3 Logistic Support

The logistic support we got while developing is listed below.

- Personal Laptop
- Notepad
- Test Server
- Development Server
- Desk
- Chair
- Meeting Room
- Highspeed Internet Connection

5 PROJECT EXERTION

5.1 Training / Domain Knowledge Sharing

IBCS-Primax has a separate training department. They give training to outsiders and IBCS employees. Any employee can join any course. Also, there will be a knowledge-sharing evening on every week's last work day. Everyone shares what he learned new in the week and the team lead gives suggestions to everyone to learn what is on next.

5.2 MoPA-Project

5.2.1 Project Plot and Requirements

Ministry of Public Administration used some old software for their internal work like PMIS, Census, and Kallan. But those are too old, and they can't add new features to that legacy codebase. And they also want to automate their all internal work so that the processes can go faster than previously and they can check the transparency of the work. Also, they want some new software like a Telephone directory, Anti Corruption Report.

There is a total of 19 modules, and 5 different codebases for the MoPA applications. We implemented all the modules. I personally work on the modules named: Census, O&M, Exam Typing, and Online Reporting.

5.2.2 Solution Providing

IBCS-Primax gives a solution based on the Licensed Oracle database and Designing, Development, and Installation. Customization, Testing, Commissioning, Data Migration, and Implementation of web-based Software & Database Development in the Ministry of Public Administration (MoPA) tender.

5.2.3 Challenges

The main challenge is to know how their internal process works on that time manually, then implement it on the software. So, The business analyst needs to do meetings over meetings with the personnel of the ministry of public administration and take down their requirements.

5.2.4 Completion and Delivery

The project starts in 2018 and will be finished in 2022. The development is already completed in August 2022. Now the support phase is running. The hardware, database, and Linux licenses are handed over on 2019.

5.2.5 Project-Screenshots

The screenshot shows the login page of the Ministry of Public Administration. At the top, there is a header with the ministry's logo and name: "Ministry of Public Administration, Government of the People's Republic of Bangladesh". Below this, the page is divided into two main sections. On the left, a green box contains contact information for support: "To get support please contact", "Senior Systems Analyst, Public Administration Computer Center, Ministry of Public Administration, Dhaka-1000", "Telephone: +88029540485", and "E-mail: info@mopa.gov.bd". On the right, the login form is displayed. It includes fields for "User Name" (with a hint "User Name Or Email Address") and "Password". A red error message "User Name is required!" is shown below the username field. Below the password field is a CAPTCHA image showing the number "10*4". There are buttons for "Remember me" and "Forgot Password?". A green "Login" button is at the bottom right of the form. At the very bottom of the page, a green footer contains the copyright notice: "© 2019 Ministry of Public Administration, Government of the People's Republic of Bangladesh. All rights reserved. Design & Developed By IBCS-PRIMAX".

Figure 1: Login Page.

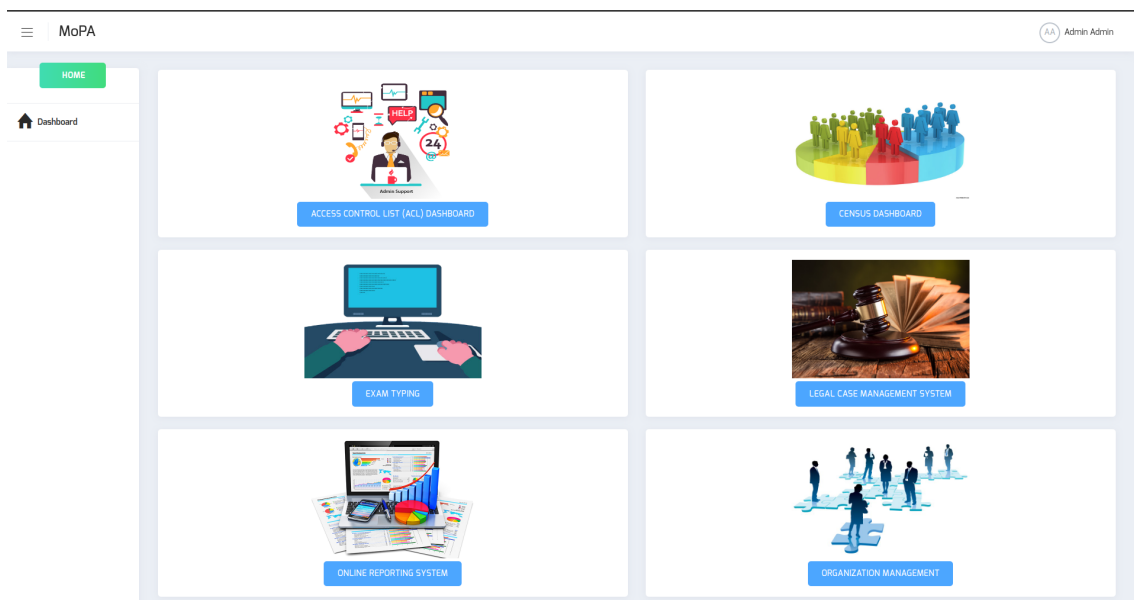


Figure 2: Dashboard Page.

MoPA

Admin Admin

HOME

Class

Census Post

Org Data Entry List

Data Approve

Pay Scale

Organization

Census Period

Data Replicate

Project

Census Data Entry (General)

Census Data Entry (Project)

Reports

Division

District

Project Type

Users Mapping

Reports

Report List

2.1.Civil officers and staffs of the ministries and divisions by classification

Census Period

2021

Organization Type

Select

Organization

Organization

Organization

Cadre Type

All

SUBMIT

Design & Developed by IBCS-PRIMAX Software (Bangladesh) Limited

Figure 3: Census Report Generation Page.

MoPA

Admin Admin

HOME

Dashboard

User Role

Users

Create

List

Reset Password

Menu

Home / Access Control / Role List

Actions	ID	Role Name	অভিভূত
	ID	Role Name	
 	501988	CENSUS_USER_HIGH	true
 	502062	ROLE_ORGANIZATION	true
 	501316	ROLE_OM_ADMIN	true
 	502173	ROLE_OM_ORGANOGRAM_OFFICES	true
 	33407	LEGAL_USER	true
 	39952	EXAM_USER_111	true
 	64152	CENSUS_USER_ENTRY_LEVEL	true
 	33402	ADMIN	true
 	33403	REPORTING_USER	true
 	33404	EXAM_USER	true

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Design & Developed by IBCS-PRIMAX Software (Bangladesh) Limited

Figure 4: Access Control Page.

5.3 Planning-Project

5.3.1 Project Plot and Requirements

The Ministry of Planning used some old software for their internal work like Project Planning System. But those are too old, and they can't add new features to that legacy codebase. And they also want to automate their all internal work so that the processes can go faster than previously and they can check the transparency of the work. Also, they want some new software like a GIS-Based Resource Management, Research Management System.

There is a total of 6 modules, and 15+ different codebases for the Planning applications. The application is written in a microservice architecture, and for that, there are more codebases. We implemented all the modules. I personally work in the modules named: Project Planning System, and Research Management System.

5.3.2 Solution Providing

The solution is provided based on the guideline from the "Strengthening Digital Processing Of Projects (SDPP)" tender.

5.3.3 Challenges

The biggest complexity is, The software may need to handle millions of users. So, for providing them with a good experience, we go to the microservice architecture.

The main challenge is to know how their internal process works on that time manually, then implement it on the software. So, The business analyst needs to do meetings over meetings with the personnel of the ministry of public administration and take down their requirements.

5.3.4 Completion and Delivery

The project starts in 2021 and will be finished in 2022. The development phase is running.

5.3.5 Project-Screenshots



Figure 5: Login Page.



Figure 6: Dashboard Page.

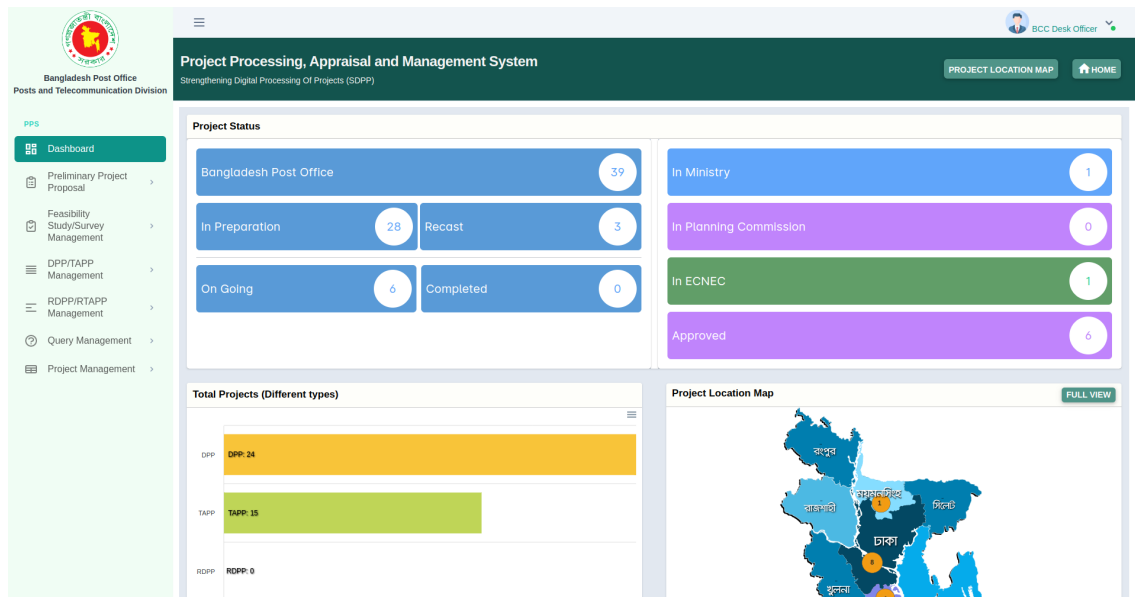


Figure 7: Project Planning System Dashboard Page.

DPP-TAPP Management
Home > Add DPP/TAPP

Link with Project Concept: [Dropdown Menu] **+ IMPORT FROM GREEN PAGE**

Basic Information

Project Type: [Dropdown Menu]

Title (English): [Text Field]

Title (Bangla): [Text Field]

Ministry Division: [Text Field: Posts and Telecommunication Division]

Implementing Agency: [Text Field: Bangladesh Post Office]

Expected Implementation Period

Date of Commencement: [Date Picker]

Date of Completion: [Date Picker]

ADP Sector/Sub-Sector selection: [Text Field: Government Division of Planning Commission]

Figure 8: DPP/TAPP Entry Page.

6 EXPERIENCE AND ACHIEVEMENTS

6.1 Consequences to Organization

As an intern, my objective was to identify any potentially suspect data. If so, I tried to construct a feature to see if there were any other features that were lacking. I occasionally attempted to think of ways to make the current system better. Due to the size of the Code Base, it wasn't always possible to find a quicker solution to a problem.

6.2 Implications to University's Internship Program

I'd like to express my gratitude to the Faculty of Science & Information Technology for maintaining internship credit in the graduate program's curriculum and giving me the chance to see what it's like to work in an area that interests me. The Faculty of Science & Information Technology at DIU, as well as the Office of Placement and Alumni, deserve praise for providing me with the chance to select a company that interests me and finish an internship there.

6.3 Effects on Personal/Professional Skills

I got my first taste of the working world through an internship, which improved my soft skills. I've developed a positive outlook, a strong sense of responsibility, and the capacity for creativity, resourcefulness, openness, and change-receptivity. It has given me the motivation to pursue lifelong learning. I'd never pass up the chance to express my gratitude to my teammates for it. They're all really cooperative and helpful. They spent the time to thoroughly explain the SQA procedure to me. When I encountered a problem related to any of my work-related difficulties, they were always willing to help. Since I was a new employee, my coworkers taught me numerous aspects of professionalism. For instance, being on time, smiling and greeting seniors with respect, as well as maintaining composure even when angry or irritated.

6.3.1 Ability to Learn

Changes can cause humans to either become immortal or common. I had a huge transformation in my case. For whatever reason, I learn things really quickly and effectively.

Computer introduced me to a variety of fresh tools and technologies for teamwork, which turned out to be a highly effective way to learn a network quickly.

6.3.2 Dependability

Dependability is a word that carries a lot of weight. It has been noted that many businesses do not want to involve their interns in their major and essential duties. Since interns are only there for three to six months before leaving, they feel that employing them is risky and time-consuming. My early diligence at work, along with that of my fellow interns, had a significant beneficial effect on our manager. They asked for our assistance in a number of ongoing projects because of this. These are all adequate justifications for my dependability.

6.3.3 Initiative

Initiative is one of the most important qualities for any employee. Every employee of a company works in a group, and each group is responsible for its own set of tasks. There is no culture that promotes following through on commitments. People in IBCS-Primax got along well with one another. Whenever I finished a task, I always tried to do so as effectively as I could. I made an independent effort to address problems as they arose and was successful. I'm hope that my outlook will be of long-term benefit to me.

6.3.4 Quality of Work

The reputation of every business is founded on the caliber of its goods, and the caliber of the goods is based on the caliber of the labor and the laborers. Quality must therefore be viewed as one of the key components of any project. Additionally, there can be no compromising on worker qualifications. I always made an effort to maintain the greatest quality possible in my projects. To help us raise our quality, we received a lot of training. According to the daily job list, standard documentation, systematic coding development, and formal reporting have all been adhered to. I kept project planning and a project timeline for the proper completion of my project. I therefore made every effort to maintain the greatest level of job quality throughout my internship at IbCS-Primax.

6.3.5 Maturity-poise

Even though I only had a tiny bit of confidence at initially, it quickly expanded into a huge one. Real-time participation in a big project helped me develop maturity, poise, and confidence. Working on these projects also taught me how to keep track of everything, manage and deal with enormous projects, and adhere to a project's timeline and schedule. My supervisor found it simpler to include me in such crucial activities because of my maturity and poise. I am now reasonably calm and self-assured as a result, and I want to remain that way for the rest of my life.

6.3.6 Judgment

Over time, "judgment" has undergone change. It doesn't require much time to create, neither a day nor a month. As you gain experience, the caliber of your work gradually rises. It helps in making the right decisions at the right time, which helps any firm keep its commitment to customers. While completing various duties, I sought to hone my judgment.

7 CONCLUSIONS AND RECOMMENDATIONS

7.1 Summary

In the area of software and systems integration services, IBCS-Primax is a pioneer. They support the success of our customers by comprehending and meeting their demands, as well as working together to offer one-stop, quicker, more affordable, and scalable services that give them a competitive edge in the field of electronic communication. I collaborated with IBCS-IT Primax's division. The organization can gain from the advancements made by the numerous findings and analyses that were previously given. I now have a better understanding of the SDLC's operation and the significance of development in IBCS-Primax firms as a result of this research. I now have a thorough idea of how to advance in my future pursuits and I am also aware of the company culture thanks to this report. Finally, I would assert that IBCS-hiring Primax's process is also contemporary and harmonious when compared to other businesses in the sector.

7.2 Recommendations for Future Strategic Actions

Through internships, students can gain practical experience in a subject linked to their studies. Since it enables them to see how their studies are used in the actual world, students gain from this experience.

7.2.1 Organization

I had no concept of what it meant to be fortunate before coming to IBCS-Primax. I'm fully aware of the situation now, though. I'll never forget the outstanding help I got from my IBCS-Primax coworkers. Not everyone, though, is as lucky as I am. Therefore, I give them the stern advice that it is up to them to handle the office climate and culture. Not everyone, though, is as lucky as I am. Therefore, I give them the stern advice that it is up to them to handle the office climate and culture. There must be a recreation strategy in place for the workplace. I like playing foosball and carrom for enjoyment, which always encouraged me to put in a lot of effort. Otherwise, life would have been monotonous and uninviting. Therefore, everyone needs to take a break from work so they can refuel.

7.2.2 University

A great approach for prospective employees to learn more about a certain sector or profession, assess their interest in a particular career, establish a network of contacts, or receive course credit is through an internship. Because the internship course is a requirement for the course, I am happy to be a DIU student. I'd want to express my appreciation to the faculty of science and Information Technology for giving me the chance to get ready for the competitive environment of the professional area. My coding skills have unquestionably increased as a result. Now I'm eager to face the challenges the world will present.

7.2.3 Professional

The opportunity to experience what it's actually like to work for a specific company or within a specific industry is another great benefit of internships for interns. There are certain common difficulties that interns encounter, such as difficult time management. Take the best knowledge you can away from the internship, no matter the situation.

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