Customizing Solutions: An Internship Journey in ABAP SAP Development and Custom Reporting at Eitekh ERP LTD

by

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An internship report submitted to the Department of Computer Science and Engineering in partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering

Department of Computer Science and Engineering
Brac University
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Declaration

It is hereby declared that

1. The thesis submitted is my own original work while completing degree at Brac University.

2. The thesis does not contain material previously published or written by a third party, except where this is appropriately cited through full and accurate referencing.

3. The thesis does not contain material which has been accepted, or submitted, for any other degree or diploma at a university or other institution.

4. I have acknowledged all main sources of help.

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Abstract

This internship defense report describes a transforming journey of professional growth and development in the field of SAP ERP consulting. I received invaluable insights, refined essential skills, and made substantial contributions to client engagements thanks to hands-on experience and active participation in real-world projects at Eitekh ERP Ltd. The paper opens with a detailed examination of a key project that aimed to improve purchase order processing workflow within SAP ERP, highlighting my role in increasing efficiency, accuracy, and compliance for the client's retail operations. Then, it digs into a thorough examination of skill development, learning outcomes, problems encountered, and solutions applied during the internship. I have reflected on the improvement of my ABAP programming ability, problem-solving abilities, communication skills, and time management strategies, emphasizing the overall nature of the learning experience. Furthermore, the report describes my contributions to the business, which include the creation of custom solutions, cooperation and knowledge sharing, customer engagement and happiness, process improvement, and mentoring. Looking ahead, the report shows my dedication to continuous learning, skill development, and career growth in the SAP consulting industry. Finally, this report demonstrates my commitment, development, and readiness to make a significant contribution in the evolving landscape of SAP consulting.

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Nomenclature

The next list describes several symbols & abbreviation that will be later used within the body of the document

$ABAP$ Advanced Busieness Application Process

ERP Enterprise resource planning

SAP Systems, Applications Products in Data Processing

Chapter 1

Introduction

1.1 Contextual Background

In today's continuously changing business landscape, enterprise resource planning (ERP) systems are critical for streamlining operations, optimizing resources, and enabling data-driven decision-making. As businesses negotiate an increasingly complicated market, the ability to customize ERP solutions to fit individual business needs has emerged as a critical competitive advantage. This customization frequently requires the creation of unique reports, interfaces, and upgrades, increasing the demand for competent SAP Advanced Business Application Programming (ABAP) specialists.

1.2 Organization Overview

Eitekh ERP Ltd. is an example of excellence in the ERP consulting sector, recognized for its dedication to innovation and client-centric solutions. Eitekh ERP Ltd. has established itself as a reliable partner for organizations looking to maximize the potential of SAP technologies, with a lengthy track record of successful deployments and a diverse portfolio of clients across numerous industries. The ABAP module is an important part of the company's ERP consulting services, allowing clients to extend and customize their SAP systems to align with their individual business processes and goals.

1.3 Purpose of the Report

The purpose of this report is to present a detailed review of my internship experience at Eitekh ERP Ltd., with a focus on my role on the ABAP development team. This report aims to provide insights into the practical use of ABAP programming in a professional setting by documenting my journey from the first objectives set forth at the beginning of the internship to the culmination of achievements and learning outcomes. This study seeks to capture the essence of a transformative internship experience in ABAP development by examining the tasks done, issues encountered, and contributions made to Eitekh ERP Ltd.

1.4 Outline of Content

Throughout the report, I will discuss the complexities of my work within the business, the projects completed, and the collaborative efforts with team members and managers. In addition, I will consider the abilities acquired, the lessons learned, and what this means for my future professional goals. This study aims to demonstrate the transforming potential of experiential learning and the invaluable insights obtained via practical engagement in ABAP development by unraveling the tapestry of my internship experience at Eitekh ERP Ltd.

Chapter 2

Company Background

2.1 Overview of Eitekh ERP Ltd.

Eitekh ERP Ltd. is a well-known provider of technology consultancy and implementation services, focusing in the SAP suite of products. Eitekh ERP Ltd. excels at configuring and extending SAP systems to enhance their usability and effectiveness, focusing on delivering creative solutions adapted to each client's specific demands.

2.2 Core Services

Eitekh ERP Ltd. provides a broad variety of services to assist enterprises in realizing the full potential of SAP technology. Eitekh ERP Ltd. provides the following basic services

2.2.1 SAP Advisory

SAP is a complex ecosystem that includes numerous components and procedures. Eitekh ERP Ltd. acts as a trusted advisor, collaborating with the CIO, CFO, COO, and their teams to traverse the SAP landscape. The organization offers extensive analysis, recommendations, project planning, and strategy formulation to guarantee informed decision-making and a smooth transition to SAP go-live.

2.2.2 SAP Implementation Services

Eitekh ERP Ltd. provides competence in all phases of SAP ERP implementation. With consultants that have worked on medium and large-scale implementations across North America, the organization is confident in its ability to handle configuration, development, and testing problems.

2.2.3 Maintenance and Support

As SAP systems mature and stabilize, clients look for cost-effective application maintenance and support. Eitekh ERP Ltd. aids with this process by doing upgrades, implementing modification requests, and providing general assistance.

2.3 Paradigm Shift in SAP

SAP is witnessing a paradigm shift in how organizations use ERP, with the launch of the cutting-edge, in-memory database HANA and the spread of cloud-based solutions. Eitekh ERP Ltd. remains at the forefront of IT evolution by providing expert consultants in these areas, allowing clients to take advantage of cutting-edge technologies and stay ahead of the competition.

2.4 Geographic Presence

Eitekh ERP Ltd. was founded in Toronto, Canada, and has since established itself as the region's premier provider of SAP consulting services. The company also has a sister entity in Dhaka, Bangladesh, which expands its geographic footprint and allows it to service clients on a global basis.

Chapter 3

Internship Objectives and Expectations

3.1 Objectives

At the outset of my internship with Eitekh ERP Ltd., I set forth several objectives aimed at maximizing my learning experience and contributing meaningfully to the organization

1. Gain Proficiency in SAP ABAP Development: My primary objective was to enhance my skills in SAP's Advanced Business Application Programming (ABAP) language and gain hands-on experience in developing custom reports and solutions.

2. Understand the Dynamics of ERP Consulting: I aimed to deepen my understanding of ERP consulting practices, including project planning, client engagement, and solution delivery, within the context of Eitekh ERP Ltd.'s operations.

3. Contribute to Real-world Projects: I sought opportunities to actively participate in ongoing projects, leveraging my skills and knowledge to make tangible contributions to client deliverables under the guidance of experienced professionals

4. Develop Soft Skills: In addition to technical proficiency, I aimed to enhance my communication, teamwork, and problem-solving skills through collaborative engagement with colleagues and clients.

3.2 Expectations

In pursuing these objectives, I had certain expectations from my internship experience at Eitekh ERP Ltd.

1. Structured Learning Environment: I expected to be provided with structured learning opportunities, including training sessions, mentorship, and guidance from senior team members, to facilitate my professional development.

2. Challenging Projects: I anticipated being assigned to challenging projects that would push me out of my comfort zone and enable me to apply theoretical knowledge to real-world scenarios.

3. Supportive Work Culture: I expected to work in a supportive and collaborative work culture where open communication, mutual respect, and teamwork are valued, fostering a conducive environment for personal and professional growth

4. Feedback and Evaluation: I looked forward to receiving constructive feedback and performance evaluations from supervisors and mentors, allowing me to identify areas for improvement and track my progress throughout the internship.

5. Networking Opportunities: I hoped to have the opportunity to network with professionals in the industry, attend relevant events or seminars, and gain insights into career pathways within the field of ERP consulting.

Chapter 4

Overview of ABAP Development

4.1 Understanding SAP's Advanced Business Application Programming (ABAP))

SAP's Advanced Business Application Programming (ABAP) language serves as the backbone of custom development within the SAP ecosystem. ABAP is a high-level programming language created by SAP for developing business applications. It provides a powerful set of features and functionalities for building custom reports, interfaces, enhancements, and forms within SAP systems. ABAP is specifically designed to work seamlessly with SAP's proprietary database, allowing for seamless integration and optimal performance.

4.2 Role of ABAP Development in ERP Consulting

Within the realm of ERP consulting, ABAP development plays a crucial role in customizing and extending SAP solutions to meet the unique requirements of each client. ABAP developers are responsible for translating business requirements into technical solutions, leveraging their expertise in ABAP programming to design, develop, and deploy custom reports, interfaces, and enhancements. By harnessing the flexibility and scalability of ABAP, ERP consultants can tailor SAP systems to align with specific business processes and objectives, thus maximizing the value of ERP investments for clients.

4.3 Key Components of ABAP Development

ABAP development encompasses a wide range of activities and components, including but not limited

1. Custom Reports, ABAP developers create custom reports to extract, analyze, and present data from SAP systems in a format that meets the specific reporting needs of clients. These reports often involve complex data structures and calculations, requiring proficiency in ABAP programming techniques.

2. Interfaces, ABAP developers design and develop interfaces to facilitate seamless data exchange between SAP systems and external applications or systems. Interfaces enable integration with third-party software, legacy systems, and other SAP modules, enabling organizations to streamline business processes and enhance data accuracy and consistency

3. Enhancements, ABAP developers implement enhancements to extend the functionality of standard SAP applications and meet unique business requirements. Enhancements can range from simple field validations to complex workflow configurations, offering organizations greater flexibility and customization options within their SAP systems.

4. Forms, ABAP developers design and develop forms, such as invoices, purchase orders, and delivery notes, to generate documents that adhere to organizational branding and compliance requirements. Forms are essential for facilitating communication and transactions between business partners and stakeholders, providing a standardized format for documentation and record-keeping.

4.4   Importance of ABAP Development Skills

In the context of ERP consulting, proficiency in ABAP development is highly valued for its ability to unlock the full potential of SAP solutions and deliver tailored solutions to clients. ABAP developers play a critical role in translating business requirements into technical specifications, ensuring that custom solutions meet the specific needs and objectives of each client. By honing their ABAP development skills, ERP consultants can effectively navigate the complexities of SAP systems and contribute to the success of implementation projects, driving business transformation and value creation for organizations.

Chapter 5

Role and Responsibilities

5.1 Role within the ABAP Development Team

During my internship at Eitekh ERP Ltd., I played an integral role within the ABAP development team, contributing to various aspects of custom development within SAP systems. My role encompassed a diverse range of responsibilities aimed at delivering high-quality solutions to meet client needs and expectations.

5.2 Key Responsibilities

- Understanding Client Requirements, One of my primary responsibilities was to collaborate closely with team members and clients to understand the specific requirements for custom reports and solutions. This involved conducting detailed analysis of client needs, gathering business requirements, and translating them into technical specifications.

- ABAP Development, As an ABAP intern, I was tasked with writing ABAP code to develop custom reports, interfaces, enhancements, and forms within SAP systems. This involved applying my knowledge of ABAP programming language to design and implement solutions that aligned with client requirements and industry best practices.

- Unit Testing and Troubleshooting, I was responsible for conducting unit testing and troubleshooting to ensure the functionality and performance of developed solutions. This involved identifying and resolving technical issues, debugging code, and conducting thorough testing to validate the accuracy and reliability of custom developments.

- Collaboration and Communication, Effective collaboration and communication were essential aspects of my role. I worked closely with team members, project managers, and clients to brainstorm ideas, share insights, and coordinate project tasks. This involved providing regular updates on project progress, discussing technical challenges, and seeking input and feedback from stakeholders.

- Documentation and Reporting, I was responsible for documenting technical specifications, development processes, and project deliverables. This involved

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maintaining comprehensive documentation to ensure clarity and transparency throughout the development lifecycle. Additionally, I prepared reports and presentations to communicate project status, findings, and recommendations to stakeholders.

- Continuous Learning and Professional Development, As an intern, I actively engaged in continuous learning and professional development activities to enhance my skills and knowledge in ABAP development and ERP consulting. This involved participating in training sessions, workshops, and online courses to stay updated on industry trends, emerging technologies, and best practices in SAP development.

Chapter 6

Project Highlights

6.1 Project Overview

During my tenure at Eitekh ERP Ltd., I was fortunate to be involved in several projects that showcased the diverse range of challenges and opportunities within the realm of ABAP development. Each project presented unique requirements, ranging from custom report generation to interface development and workflow enhancements. Here are some of the notable project highlights.

6.2 Project A: Custom Financial Analysis Report

Client Industry
Financial Services

Objective
The objective of this project was to develop a custom financial analysis report to provide comprehensive insights into revenue trends, cost analysis, and profitability metrics for the client's financial services operations.

Key Contributions

- Collaborated closely with the client's finance and procurement team to understand their specific reporting needs and requirements.

- Designed and developed a custom report using ABAP programming language within the SAP environment.

- Implemented complex calculations and data aggregations to ensure accuracy and relevance of financial analysis metrics.

- Conducted extensive testing and validation to verify the functionality and performance of the custom report.

Outcome
The custom financial analysis report provided the client with actionable insights into their financial performance, enabling informed decision-making and strategic planning. The client expressed satisfaction with the accuracy, usability, and timeliness of the report, highlighting its value in driving business growth and profitability.

6.3 Project B: Integration Interface Development

Client Industry

Trading

Objective

The objective of this project was to develop an interface to integrate SAP ERP with a third-party logistics management system, facilitating seamless data exchange and improving supply chain visibility for the client's trading operations.

Key Contributions

- • Collaborated with cross-functional teams to gather requirements and define interface specifications.

- • Designed and developed the interface using ABAP programming language and SAP integration technologies.

- • Implemented data mapping and transformation logic to ensure compatibility and consistency between systems. Conducted rigorous testing and validation to ensure the reliability and integrity of data exchange processes.

Outcome

The integration interface successfully streamlined data exchange between SAP ERP and the third-party logistics system, enabling real-time visibility into inventory levels, production schedules, and shipping statuses. The client reported significant improvements in supply chain efficiency and responsiveness, leading to enhanced customer satisfaction and cost savings.

6.4 Project C: Purchase Order Workflow Enhancement

Client Industry

Retail.

Objective The objective of this project was to enhance the purchase order processing workflow within SAP ERP by automating approval processes and implementing custom validations to improve efficiency and accuracy for the client's retail operations.

Key Contributions

- Analyzed existing purchase order processing workflow and identified areas for improvement.

- Developed custom workflow rules and approval mechanisms using ABAP workflow technology.

- Implemented custom validations and business rules to ensure compliance with regulatory requirements and organizational policies.

- Provided training and support to end-users to facilitate seamless adoption of the enhanced workflow processes.

Outcome

The enhanced purchase order processing workflow streamlined approval processes, reduced manual errors, and improved overall efficiency and accuracy in procurement operations. The client expressed satisfaction with the increased visibility, control, and compliance achieved through the automated workflow enhancements, positioning them for future growth and scalability.

Chapter 7

Skills Development and Learning Outcomes

7.1 Skill Enhancement

ABAP Programming Proficiency

Throughout my internship at Eitekh ERP Ltd., I had the opportunity to significantly enhance my proficiency in ABAP programming. By actively participating in development tasks and projects, I honed my skills in writing efficient and effective ABAP code to develop custom reports, interfaces, enhancements, and forms within SAP systems. I gained hands-on experience in leveraging ABAP programming language features and techniques to address diverse client requirements and business scenarios.

Problem-Solving and Analytical Skills

Engaging in complex development tasks and troubleshooting activities allowed me to sharpen my problem-solving and analytical skills. I learned how to analyze intricate business requirements, identify technical challenges, and devise optimal solutions to overcome obstacles. By approaching challenges with a systematic and analytical mindset, I developed the ability to break down problems into manageable components and explore creative solutions to achieve desired outcomes.

Communication and Collaboration

Effective communication and collaboration were integral aspects of my internship experience. Working closely with team members, project managers, and clients provided me with valuable opportunities to refine my communication skills. I learned how to articulate technical concepts, present ideas persuasively, and engage in constructive dialogue to facilitate collaboration and consensus-building. Through regular interactions and collaborative engagements, I developed the ability to communicate effectively with diverse stakeholders and adapt my communication style to suit different audiences and contexts.

Time Management and Prioritization

Managing multiple tasks and deadlines in a dynamic and fast-paced environment enabled me to enhance my time management and prioritization skills. I learned how to allocate time and resources effectively, prioritize tasks based on urgency and importance, and adapt to shifting priorities and deadlines. By implementing efficient workflows and time management strategies, I optimized productivity and maintained high-quality standards in project deliverables.

7.2   Learning Outcomes

Deepened Understanding of SAP ABAP Development

My internship experience provided me with a deepened understanding of SAP ABAP development and its applications within the context of ERP consulting. I gained insights into the intricacies of ABAP programming language, SAP development methodologies, and best practices for custom development. By working on real-world projects and engaging in hands-on development tasks, I acquired practical knowledge and skills that are invaluable for a career in SAP ABAP development.

Enhanced Problem-Solving and Critical Thinking Abilities

Engaging in complex development tasks and troubleshooting activities challenged me to think critically and analytically. I learned how to analyze problems from multiple perspectives, evaluate alternative solutions, and make informed decisions to achieve desired outcomes. By applying problem-solving frameworks and methodologies, I developed the confidence and competence to tackle challenging technical issues and overcome obstacles effectively.

Strengthened Communication and Collaboration Skills

Effective communication and collaboration were key pillars of my internship experience. I learned how to communicate technical concepts clearly and concisely, actively listen to others' perspectives, and collaborate effectively with cross-functional teams. By fostering open communication, mutual respect, and teamwork, I contributed to a positive and inclusive work environment conducive to creativity, innovation, and collective success.

Continuous Learning and Professional Growth:

My internship at Eitekh ERP Ltd. instilled in me a commitment to lifelong learning and professional growth. I recognized the importance of staying updated on emerging technologies, industry trends, and best practices in SAP development. Through ongoing self-directed learning and professional development activities, I aspire to expand my knowledge and expertise in SAP ABAP development and advance my career in ERP consulting.

Chapter 8

Challenges and Solutions

8.1 Challenges Faced

Complex Client Requirements

One of the primary challenges encountered during my internship at Eitekh ERP Ltd. was navigating complex client requirements. Some clients had intricate business processes and specific needs that required careful analysis and customization within the SAP environment. Understanding the nuances of these requirements and translating them into technical solutions posed a significant challenge at times.

Tight Deadlines

Meeting tight project deadlines while ensuring quality and accuracy was another challenge faced during my internship. Some projects had aggressive timelines, necessitating efficient time management and prioritization to deliver results within stipulated deadlines. Balancing multiple tasks and responsibilities while adhering to project timelines required careful planning and coordination.

Technical Issues

Technical issues and bugs in the development environment occasionally disrupted workflow and required prompt resolution. Whether it was encountering errors in ABAP code, debugging system issues, or troubleshooting integration challenges, addressing technical issues in a timely and effective manner was crucial to maintaining project momentum and ensuring smooth project execution.

8.2 Solutions Implemented

Collaborative Problem-Solving

To address complex client requirements, I actively engaged in collaborative problem-solving sessions with team members and project stakeholders. By leveraging collective expertise and diverse perspectives, we brainstormed ideas, explored alternative solutions, and developed innovative approaches to meet client needs effectively. Through open communication and teamwork, we were able to identify optimal so-

lutions that aligned with client objectives and project constraints.

Effective Time Management

To manage tight project deadlines, I implemented effective time management strategies to optimize productivity and ensure timely delivery of project milestones. This involved prioritizing tasks based on urgency and importance, breaking down projects into manageable subtasks, and allocating time and resources judiciously. By adopting a proactive approach to time management and planning, I was able to meet project deadlines without compromising on quality or accuracy.

Proactive Issue Resolution

In addressing technical issues, I adopted a proactive approach to issue resolution, leveraging resources such as online documentation, forums, and mentorship to troubleshoot and resolve challenges expediently. I maintained thorough documentation of encountered issues and their resolutions, facilitating knowledge sharing and future reference. By staying vigilant and responsive to technical issues, I minimized disruptions to workflow and ensured the smooth progression of project tasks.

Continuous Learning and Skill Development

In response to challenges encountered during my internship, I embraced a mindset of continuous learning and skill development. I actively sought opportunities to expand my knowledge and expertise in ABAP development and ERP consulting, attending training sessions, workshops, and online courses to enhance my skills and stay updated on industry trends. By investing in my professional development, I equipped myself with the tools and resources needed to overcome challenges effectively and contribute meaningfully to project success.

Chapter 9

Contributions to the Organization

During my internship at Eitekh ERP Ltd., I made significant contributions to the organization's projects and initiatives, leveraging my skills and expertise to drive positive outcomes and add value to client engagements. My contributions encompassed various aspects of ABAP development and ERP consulting, demonstrating my ability to deliver results and make meaningful contributions to the organization's success.

9.1 Development of Custom Solutions

One of my primary contributions was the development of custom solutions to meet client requirements and enhance the functionality of SAP systems. Leveraging my proficiency in ABAP programming, I designed, developed, and implemented custom reports, interfaces, enhancements, and forms tailored to address specific business needs. By delivering high-quality solutions that aligned with client objectives and industry best practices, I helped enhance the efficiency, productivity, and effectiveness of client operations.

```abap
11    TABLES: MSEG, MAKT, MARA,T023T.
12
13  ⊟TYPES: BEGIN OF TAB,
14      EBELN TYPE MSEG-EBELN,
15      MATNR TYPE MSEG-MATNR,
16      MEINS TYPE MSEG-MEINS,
17      MENGE TYPE MSEG-MENGE,
18      BWART TYPE MSEG-BWART,
19      MAKTX TYPE MAKT-MAKTX,
20      MATKL TYPE MARA-MATKL,
21      WGBEZ TYPE T023T-WGBEZ,
22      END OF TAB.
23
24    DATA: ITAB TYPE STANDARD TABLE OF TAB,
25          WA TYPE TAB,
26          IT_MSEG TYPE STANDARD TABLE OF MSEG,
27          WA_MSEG TYPE MSEG,
28          IT_MAKT TYPE STANDARD TABLE OF MAKT,
29          WA_MAKT TYPE MAKT,
30          IT_MARA TYPE STANDARD TABLE OF MARA,
31          WA_MARA TYPE MARA,
32          IT_T023T TYPE STANDARD TABLE OF T023T,
33          WA_T023T TYPE T023T.
```

Figure 9.1: Field Importing from database

```
35    DATA: TAB_FCAT TYPE LVC_T_FCAT,
36          ITAB_FCAT LIKE LINE OF TAB_FCAT,
37          ITAB_LAYOUT TYPE LVC_S_LAYO,
38          ITAB_VARIANT TYPE DISVARIANT,
39          ITAB_GRID TYPE LVC_S_GLAY,
40          ITAB_CNT TYPE I.
41
42    *DATA: t_fieldcat   TYPE slis_t_fieldcat_alv,
43    *        gv_pos       TYPE i,
44    *        wa_fieldcat TYPE slis_fieldcat_alv.
45
46    SELECTION-SCREEN BEGIN OF BLOCK B1 WITH FRAME TITLE TEXT-001.
47    SELECT-OPTIONS:
48    S_MBLNR FOR MSEG-MBLNR.
49
50    SELECTION-SCREEN END OF BLOCK B1.
51
52    START-OF-SELECTION.
53      PERFORM GET_DATA.
54      PERFORM BUILD_DATA.
55      PERFORM FIELD_CAT.
56      PERFORM DISPLAY_DATA.
57
58    END-OF-SELECTION.
```
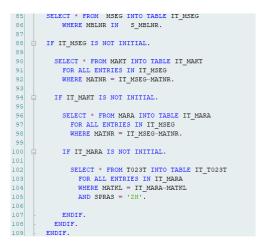
Figure 9.2: Selection screen method

```
85       SELECT * FROM  MSEG INTO TABLE IT_MSEG
86          WHERE MBLNR IN   S_MBLNR.
87
88    IF IT_MSEG IS NOT INITIAL.
89
90        SELECT * FROM MAKT INTO TABLE IT_MAKT
91          FOR ALL ENTRIES IN IT_MSEG
92          WHERE MATNR = IT_MSEG-MATNR.
93
94      IF IT_MAKT IS NOT INITIAL.
95
96          SELECT * FROM MARA INTO TABLE IT_MARA
97            FOR ALL ENTRIES IN IT_MSEG
98            WHERE MATNR = IT_MSEG-MATNR.
99
100       IF IT_MARA IS NOT INITIAL.
101
102           SELECT * FROM T023T INTO TABLE IT_T023T
103             FOR ALL ENTRIES IN IT_MARA
104             WHERE MATKL = IT_MARA-MATKL
105             AND SPRAS = 'ZH'.
106
107         ENDIF.
108       ENDIF.
109     ENDIF.
```

Figure 9.3: Query to get data from database and inner joining

```
134    LOOP AT IT_MSEG INTO WA_MSEG.
135
136      WA-EBELN = WA_MSEG-EBELN.
137      WA-MATNR = WA_MSEG-MATNR.
138      WA-MENGE = WA_MSEG-MENGE.
139      WA-MEINS = WA_MSEG-MEINS.
140      WA-BWART = WA_MSEG-BWART.
141
142      READ TABLE IT_MAKT INTO WA_MAKT WITH KEY MATNR = WA_MSEG-MATNR.
143      WA-MAKTX = WA_MAKT-MAKTX.
144
145      READ TABLE IT_MARA INTO WA_MARA WITH KEY MATNR = WA_MSEG-MATNR.
146      WA-MATKL = WA_MARA-MATKL.
147
148      READ TABLE IT_T023T INTO WA_T023T WITH KEY MATKL = WA_MARA-MATKL.
149      WA-WGBEZ = WA_T023T-WGBEZ.
150
151      APPEND WA TO ITAB.
152      CLEAR: WA,WA_MSEG,WA_MAKT,WA_MARA,WA_T023T.
153
154    ENDLOOP.
155
```

Figure 9.4: Performing loop at Inner table using work areas

Figure 9.5: Calling function for grid display

Figure 9.6: Changing field name for display

Figure 9.7: Changing Selection screen name

Figure 9.8: View of report after executing program from selection screen

Purcahse Order Number	Movement Type	Material Number	Material Description	Material Group	Material Group D	Base Unit of Meas.	Quantity
4500007909	101	80-210	Coil 220-235V 80-watt 1000h CC	003	Bulbs	ST	841,375.000
4500007909	101	YY-210	Solid wire LSN 5 1.8	003	Bulbs	KG	2,886.000
4500007910	101	60-110C	220-235V 60-watt clear e27 MIG box	008	Packaging	ST	288,934.000
4500007910	101	60-110F	220-235V 60-watt frosted e27 MIG box	008	Packaging	ST	288,934.000
4500007910	101	60-110R	220-235V 60-watt red e27 MIG box	008	Packaging	ST	134,836.000
4500007910	101	60-110Y	220-235V 60-watt yellow e27 MIG box	008	Packaging	ST	144,467.000
4500007911	101	60-200C	Bulb A 60/33x128 clear EMG	003	Bulbs	ST	300,491.000
4500007911	101	60-200F	Bulb A 60/33x128 frosted EMG	003	Bulbs	ST	300,491.000
4500007911	101	60-200R	Bulb A 60/33x128 rot EMG	003	Bulbs	ST	140,229.000
4500007911	101	60-200Y	Bulb A 60/33x128 yellow EMG	003	Bulbs	ST	150,246.000
4500007912	101	60-210	Coil 220-235V 60-watt 1000h CC	003	Bulbs	ST	874,692.000
4500007912	101	80-110C	220-235V 80-watt clear e27 MIG box	008	Packaging	ST	327,458.000
4500007912	101	80-110F	220-235V 80-watt frosted e27 MIG box	008	Packaging	ST	240,778.000
4500007912	101	80-110R	220-235V 80-watt yellow e27 MIG box	008	Packaging	ST	115,574.000
4500007913	101	80-110Y	220-235V 80-watt yellow e27 MIG box	008	Packaging	ST	125,205.000
4500007913	101	YY-220	Pst 125 3.6-3.8/0.65-0.75 113	003	Bulbs	ST	2,809,000.000
4500007913	101	YY-230	Plate 125 11.4-11.8 30.5	003	Bulbs	ST	2,809,000.000
4500007913	101	YY-240	Base mounting kit A 1.01	003	Bulbs	KG	4,025.000
4500007914	101	80-200C	Bulb A 80/33x128 clear EMG	003	Bulbs	ST	340,557.000
4500007914	101	80-200F	Bulb A 80/33x128 frosted EMG	003	Bulbs	ST	250,409.000
4500007914	101	80-200R	Bulb A 80/33x128 red EMG	003	Bulbs	ST	120,196.000
4500007914	101	80-200Y	Bulb A 40/33x128 yellow EMG	003	Bulbs	ST	130,213.000
4500007915	101	XX-200	Foil 330x0,03	003	Bulbs	M	182,000.000
4500007916	101	YY-120	100-piece box	008	Packaging	ST	27,563.000
4500007917	101	YY-250	MDH 0.10000 mm bl.ggl	003	Bulbs	M	126,000.000
4500007917	101	YY-260	Current conveyor 3 piece	003	Bulbs	ST	5,688,000.000
4500007917	101	YY-270	Base F22/27HAI	003	Bulbs	ST	2,808,750.000

Figure 9.9: Query to get data from database and inner joining

9.2 Collaboration and Knowledge Sharing

I actively participated in collaborative efforts with team members and project stakeholders, fostering a culture of teamwork, innovation, and knowledge sharing within the organization. Through regular interactions, brainstorming sessions, and peer reviews, I contributed insights, ideas, and best practices to enhance project outcomes and drive continuous improvement. By sharing my expertise and experiences with colleagues, I facilitated mutual learning and growth, strengthening the collective capabilities of the organization.

9.3 Client Engagement and Satisfaction

My contributions extended beyond technical tasks to encompass client engagement and satisfaction initiatives. I actively liaised with clients to understand their requirements, gather feedback, and address any concerns or issues promptly. By maintaining open lines of communication, demonstrating responsiveness and professionalism, and delivering solutions that exceeded client expectations, I contributed to positive client experiences and long-term relationships with key stakeholders.

9.4 Process Improvement and Optimization

I proactively identified opportunities for process improvement and optimization within project workflows and development methodologies. By streamlining processes, implementing best practices, and leveraging automation tools and techniques, I contributed to enhanced efficiency, quality, and scalability in project delivery. Through continuous evaluation and refinement of project processes, I helped drive operational excellence and fostered a culture of innovation and continuous improvement within the organization.

9.5 Mentorship and Leadership

As an intern, I embraced opportunities to mentor and support junior team members, sharing my knowledge, insights, and experiences to facilitate their learning and professional development. By providing guidance, feedback, and encouragement, I contributed to the growth and success of fellow colleagues, nurturing a supportive and collaborative work environment conducive to individual and collective achievement. Additionally, I demonstrated leadership qualities through my proactive approach, initiative, and commitment to excellence in all aspects of my work.

Chapter 10

Professional Development and Future Goals

10.1 Continuous Learning and Skill Enhancement

My internship experience at Eitekh ERP Ltd. served as a catalyst for my professional development, providing me with valuable insights, experiences, and opportunities for growth. Moving forward, I am committed to continuing my journey of continuous learning and skill enhancement to further refine my expertise in SAP ABAP development and ERP consulting. To achieve this, I plan to

- Engage in Ongoing Training

  I intend to participate in advanced training programs, workshops, and certification courses to deepen my understanding of SAP technologies, development methodologies, and industry best practices. By staying updated on emerging trends and advancements in the field, I aim to expand my knowledge base and strengthen my technical capabilities.

- Explore Specialized Areas

  I am keen on exploring specialized areas within SAP, such as SAP S/4HANA, SAP Fiori, and SAP Cloud Platform, to broaden my skill set and stay ahead of evolving market demands. By gaining expertise in these areas, I aim to position myself as a versatile and sought-after professional capable of delivering innovative solutions to clients across diverse industries.

- Seek Mentorship and Guidance

  I recognize the value of mentorship and guidance in my professional development journey. I plan to seek mentorship from seasoned professionals within the organization and industry, leveraging their insights, experiences, and wisdom to navigate career challenges, overcome obstacles, and unlock new opportunities for growth and advancement.

10.2 Career Advancement and Leadership

As I progress in my career, I aspire to assume leadership roles and make meaningful contributions to the organization and the broader SAP community. My future goals include

- Leadership Development

  I am committed to developing my leadership skills and capabilities, including strategic thinking, decision-making, and team management. By taking on leadership roles in projects and initiatives, I aim to inspire and empower others, drive positive change, and foster a culture of excellence and innovation within the organization.

- Thought Leadership

  I aspire to become a thought leader in the field of SAP ABAP development and ERP consulting, contributing insights, perspectives, and best practices through thought leadership articles, presentations, and industry forums. By sharing my knowledge and expertise with the broader community, I aim to elevate the discourse, stimulate innovation, and shape the future direction of the industry.

- Career Advancement

  Ultimately, my goal is to advance my career and assume senior-level positions that allow me to make a significant impact and influence positive change. Whether it's as a project manager, solution architect, or subject matter expert, I am committed to continuous growth, learning, and professional excellence as I pursue my career aspirations in the dynamic and ever-evolving field of SAP consulting.

Chapter 11

Conclusion

My internship journey at Eitekh ERP Ltd. has been an enriching and transformative experience, providing me with invaluable opportunities for learning, growth, and personal development. Over the course of my internship, I have had the privilege of working alongside talented professionals, engaging in challenging projects, and making meaningful contributions to the organization's success.

As I reflect on my internship experience, I am grateful for the mentorship, guidance, and support I received from my colleagues and supervisors, who provided me with the resources, encouragement, and feedback needed to thrive in a dynamic and fast-paced environment. Their mentorship has not only deepened my technical skills and expertise but also instilled in me a sense of confidence, resilience, and professionalism that will serve me well in my future endeavors.

Through my involvement in various projects and initiatives, I have gained practical insights into the complexities of SAP ABAP development and ERP consulting, honing my problem-solving abilities, communication skills, and collaborative mindset along the way. I am proud of the contributions I have made to the organization, from developing custom solutions to enhancing client satisfaction and driving process improvements.

Looking ahead, I am excited about the opportunities that lie ahead in my career journey. Armed with newfound knowledge, skills, and experiences gained during my internship, I am eager to embark on new challenges, pursue my professional aspirations, and continue my quest for excellence in the field of SAP consulting.

I extend my heartfelt gratitude to the entire team at Eitekh ERP Ltd. for their unwavering support and camaraderie throughout my internship. I am grateful for the friendships forged, lessons learned, and memories created during my time with the organization. As I bid farewell to this chapter of my journey, I carry with me valuable lessons, cherished experiences, and a sense of optimism for the future.

In closing, I am confident that the skills, insights, and relationships forged during my internship will serve as a solid foundation for my continued growth and success in the field of SAP consulting. I am excited about the possibilities that await me and look forward to making a positive impact in my future endeavors.

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