

# **INTERNSHIP REPORT**

SNEHA VALVAIKAR

1958

IMMO Information Technology Pvt. Ltd.

**Goa University** 

#### **INTERNSHIP REPORT**

#### Completed by

## Sneha Valvaikar | 1958

For the course

#### **MCA Semester VI**

## Goa Business School, Goa University

At

## Immo Information Technology Pvt. Ltd.

## Merces, Goa

Under the guidance of

## Mr. Prayut Parsekar

(CDO/Associate Director, IMMO Information Technology Pvt. Ltd.)

&

## Mr. Ismail Shaikh

## (Senior HR Executive, IMMO Information Technology Pvt. Ltd.)

With

#### Mr. Sudesh Mehta

(CEO, IMMO Information Technology Pvt. Ltd)

# **Certificate from the Company**



# **GOA UNIVERSITY**



**GOA BUSINESS SCHOOL** 

# **CERTIFICATE OF EVALUATION**

This is to certify that **Ms. Sneha Umesh Valvaikar** has successfully completed her internship at **IMMO Information Technology Pvt. Ltd., Merces, Goa,** in partial fulfillment for the award of the degree in Master of Computer Application.

Examiner 1

Examiner 2

Place: Goa University

Date: 09/06/2022

Dean, Goa Business School

# Acknowledgement

Internship in a company is a golden opportunity for learning and self-development, especially with professionals who have tremendous knowledge of all the aspects of the technology.

I am privileged to have done our internship in the IMMO Information Technology Pvt Ltd. I got a great chance for learning, and professional development, and growth. The internship wouldn't be complete without expressing my gratitude to all the people who made it possible.

I would like to thank Mr. Sudesh Mehta(CEO, Immo Information Technology), Mr. Gaurish Abhisheki(COO, Immo Information Technology), and Mr. Nimish Shikerkar(CIO, Immo Information Technology) for allowing me to intern at IMMO. My sincerest gratitude Mr. Prayut Parsekar for giving me all the necessary guidance and support as my team leader. I would also like to thank my team members for always reaching me when I need any support or help.

I would like to extend my gratitude to Mr. Ismail Shaikh(Senior HR Executive, Immo Information Technology) for always helping me out whenever I was in need.

I would also like to thank Mr. Dattaprasad Chodankar, Mr. Amey Kuvelkar, Mr. Sreekanth Unni, Mr. Nitendra Priolkar, Mr. Ashik Parab, and the whole IMMO family for providing us the resources, guidance, knowledge, and advice on how to go about the issues and work assigned to me. With their support, I got a significant amount of exposure and experience of Information Technology and their business network.

I would like to thank Goa Business School, Goa University, for giving me the opportunity to carry out my internship and acquire real-world industrial experience. I thank Mr. Ramdas Karmali (Prof., Goa University) and Mr. Jarret S. A. Fernandes (Asst. Prof., Goa University) and all the faculties of Goa Business School for their constant encouragement and support.

Finally, I would also like to thank my family and friends who were always ready to help me and guide me in all aspects of life.

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# Introduction

This report is a short description of my full-time internship at IMMO Information Technology, Merces Goa. I joined as an Intern at IMMO on the 17th of January 2021 and have been here since then. This report contains necessary information about the organization, the assignments and tasks I worked on, and the other training I completed in this internship period.

In the chapters that will follow, I will talk about the company, the work here, the culture, etc. Then, I shall elaborate on the team I was assigned to, a piece of brief information about the assignments, the modules I built, and the tasks I completed. This report highlights my learning experience and my contributions to the organization as an intern. However, considering company data security policies, I won't be able to give details of the work I've contributed to. This will describe the knowledge that I gained by completing the tasks that were assigned to me. I'll also be talking about the tools and technologies that were used followed by my internship timeline. I shall conclude by sharing my experience and how it has helped me to grow, both, on the personal and professional front.

# **Company Profile**

IMMO Information Technology (IIT) Pvt. Ltd is a dynamic IT products development company based in Panjim, Goa. The company was established as a start-up in 2005 and since then it has been providing offshore software development and related services to the parent company IAZI Zurich, one of the leading Real Estate Consulting Companies in Switzerland (www.iazi.ch) that provides advice and statistical analyses to institutional investors (banks, insurance companies, pension funds, etc.). Among our clients we have Credit Suisse, UBS, BKB, CLER, Swiss National Bank, ABN AMRO Bank, Ernst & Young, Basler Versicherungen, Generali, etc.

## Company Website: <a href="http://www.iazicifi.ch/">http://www.iazicifi.ch/</a>

Some of the services and products provided by IMMO to leading banks, insurance companies and pension funds from Switzerland.

# **Dashboard Team**

We design dashboards/cockpits using the Qlik Sense Desktop Application and Qlik Sense is a Business Intelligence platform. Business intelligence comprises the strategies and technologies used by enterprises for the data analysis and management of business information.

Companies which are having large amount of data they generally face some kind of challenges which deals with data. Firstly they face challenge to extract large data and to analyze this data. For example to gain some meaningful information out of large data is very difficult. Secondly business intelligence provides data visualizations in the form of pie charts, bar charts, line charts and other extensions.

The main importance of this data visualization is that we can understand quickly any pictorial representation of the data as compared to the some kind of tabular information. We can also analyze data with a historical context this will help the analyst to make some important decision.

There are many BI tools in the market and our team is using Qlik Sense product to develop dashboards. There are many others like Power BI, Tableau, MicroStrategy, ThoughtSpot, SAP and Sisense.

We develop dashboards using App & Mashup Preparation (using ETL). We use Microsoft SQL Server to fetch the data from database and also Microsoft Excel to store csv files data and mostly dashboard configurations are stored in excel files.

# Task - Rent App usage dashboard



## **Problem Statement**

- In dashboard all the companies and users should be listed.
- The address selected by the respective users, inputs provided and the appraisal result.
- How many inputs a particular user has entered in the input field and the count of it needs to display.
- Based on the input address it needs to categorize the type of property.

## Overview

Rent App usage dashboard displays rent information. The idea is to know which area was clicked more by the companies/users, how many companies uses Rent App.

# **Tools and Technologies used**

- Qlik Sense Desktop Application
- Jira
- BitBucket
- Qlik Deployment Framework
- Pedia
- Visual Studio Code
- Notepad++
- Microsoft Excel
- SQL Server 2014 Management Studio
- Remote Desktop Connection
- Teamcity
- Snagit
- Console

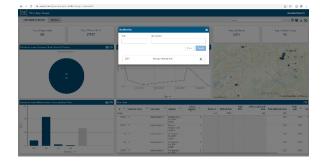
# My contributions

- To fetch data from database using ODBC connection.
- To load the data in qlik sense desktop application.
- To create "Customer overview" and "Details" sheet in app.
- To create mashup version for "Customer overview" sheet.

# Screenshots

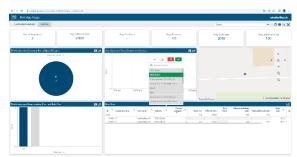
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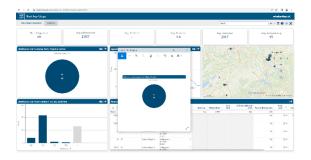








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# **Other Tasks**

# • Working on WebAppHedo

To get three stars near appraisal button by entering input values and clicking on appraisal button.

# • Testing PolitMonitor Dashboard

For UI related issues and document issues in pedia.

#### **Tools and Technologies used**

- o Pedia
- o Snagit

## • Multi Tenancy/User Testing

Multi tenancy refers to a principle in software architecture where a single instance of the software runs on a server, serving multiple tenants. A tenant is a group of users sharing the same view on the software they use.

Taking five users one by one and testing Polit-Monitor dashboard and document issues in pedia.

#### **Tools and Technologies used**

- o Pedia
- o snagit

## • Multi Tenancy with filters on PolitMonitor

Taking five users one by one and testing Polit-Monitor dashboard with filters and document issues in pedia.

#### **Tools and Technologies used**

- o Pedia
- o Snagit

# • Testing on REPM5

Testing on REPM5 modules for UI related issues and working of functionalities, document issues in pedia.

#### **Tools and Technologies used**

- o Pedia
- o Snagit
- Microsoft Excel

## • Checked cockpits for any UI related issues

For UI related issues and working of functionalities, document issues in pedia.

#### Tools and Technologies used

- o Pedia
- o Snagit

# • DASHBOARD-1339 SHA-Create New ImmoCockpit for Stiftung Habitat

App and extension folder setup, to reload app on qlik sense desktop application, to add dynamic logo in mashup version, customizing theme on extension

#### Tools and Technologies used

- Qlik Sense Desktop Application
- o Jira
- BitBucket
- Qlik Deployment Framework
- o Pedia
- Visual Studio Code
- Notepad++
- Microsoft Excel
- o SQL Server 2014 Management Studio
- o Snagit
- o Console

# • Tested ImmoCockpits FON, Generali, PAX clients on PROD

For UI related issues and working of functionalities, document issues in pedia.

- o Pedia
- o Snagit

# • DASHBOARD-1361 Hypo – Create Clone of Demo HypoCockpit for TKB

App and extension folder setup, to reload app on qlik sense desktop application, to add dynamic logo in mashup version, customizing theme on extension, data testing

#### **Tools and Technologies used**

- Qlik Sense Desktop Application
- o Jira
- BitBucket
- Qlik Deployment Framework
- o Pedia
- Visual Studio Code
- Notepad++
- Microsoft Excel
- o SQL Server 2014 Management Studio
- o Snagit
- Console

# • DASHBOARD-1373 Maintenance-chart Title has typo

To correct line chart title on vacancy property tab

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50 0001 0001 0011 0011 0011 0011	Kanon VO GE FR VS VO FR FR FR VS VS NE	Drs Lausanne Onex Fribourg Sion Ecubleres VD Broc Chiltee Se D	Adresso Rue de la Borde 2 Chemin de Teletini Rue de Câtriegen 1 Avenue de la Gare 5 Avenue de la Gare 5 Avenue de la Teletini Rue de Prisent 2 Route de Lac Luss	Ruccunguert Gemische Liegenschaft Währhaus Gemische Liegenschaft Gemische Liegenschaft Währhaus Währhaus	Bueinschafter Jo GWI SA, Lussene Cost OVA SA, Greine Espres SA, Wits-aur, Jo GWI SA, Lussene Espres SA, Wits-aur, Espres SA, Wits-aur, Jo GWI SA, Lussene Espres SA, Wits-aur,	Bustriam Bustriam Bustriam Bustriam Bustriam Bustriam Bustriam	Dieme (Dec 2019) 21542 62910 21542 17706 31514 48326 21745 10371	Aufal Mitchin (Nem) (Doc 2019) 175047 17500 17500 17500 886 620 8112 8112 113	Leenstands quote (Dec 2017) 7.25 3.05 7.05 11.05 1.05 1.25 1.25 1.25 0.95	150'644 0 0 1'940 2'256 0 2'90 103	127539 0 1740 2256 0 420 103	Mar 2019 129/277 0 0 17940 2/256 650 3/20 103	Apr 2019 128136 0 0 11900 2256 0 220 103	Mai 2019 143/295 0 1'940 2'256 0 2/256 0 3/20 0	Jun 2019 136/072 0 0 17/960 2/256 0 4/20 0 1710 838	Jul 2019 140/427 0 1/500 2/0/0 2/256 0 1/562 0	Aug 2019 138'890 0 1500 1500 1500 806 0 3052 0	560 2019 129169 0 1500 1500 1500 806 800 800 800 800 800 800 800 800 8	Cat 2019 144525 0 1500 1500 2500 806 0 8122 1916 1529 0	New 2 156 1 1 1 1 1 2 2 2
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0002 0002 0001 0011 0011 0011 0011 0011	Kanson VD GE FR VS VD FR FR FR VS NE NE E	Det Lausanne Onex Febourg Son Ecubiere VD Broc Crâteal St-D Vegrornar La Crâteajre Las Brenets Bern	Adresse Rae de la Borde 2 Derem de Tielsen Rae de Zhringen 1 Averse de la Gares 5 Norte de la Cartos Norte de La Cartos. La Sitte 3 Grand Rise 26 Nigoligaes 10	C. Nucargan Gernsche Ligerschaft Weinhaus Gernsche Ligerschaft Gernsche Ligerschaft Weinhaus Weinhaus Weinhaus Weinhaus Weinhaus Weinhaus Weinhaus	Bueinschafter Jo GMI SA, Laurene Coul GMI SA, Geniter Express SA, Wilss-aur- Jo GMI SA, Laurene Express SA, Wilss-aur- Express SA, Wilss-aur- Express SA, Unserne Express SA, Unserne Express SA, Wilss-aur- Lauren SA, Olexennod.	Busmann Busmann Busmann Busmann Busmann Busmann Busmann Busmann Busmann Busmann Busmann	Diemol (Dec 2019) 24545002 62314 21542 17706 31514 41526 21745 10321 31253 12330	Audial Mettins (Nems) (Doc 2019) 175947 17900 17900 17900 886 630 87112 183 7129 0	Leentands geotle (Dec 2017) 7.25 3.05 7.05 11.05 2.65 1.35 14.25 0.95 4.25 0.05	158/944 0 77940 2/216 0 2/20 103 5/25 0 5/200 0	137539 0 17940 27256 0 420 103 420 0 5760 0	Mar 2019 129°277 0 0 17980 2°286 660 320 103 100 0 4°180 0	Apr 2019 1281136 0 0 11140 22256 0 220 103 110 0 0 41500 0	Mai 2019 143/295 0 0 17960 2256 0 220 0 1710 838 2/320 0 0	Jun 2019 136/072 0 0 17/960 2/256 0 4/20 0 1710 838	Jul 2019 140/427 0 1/500 2/256 0 1/562 0 1/562 0 1/10 0 3/202 0	Aug 2019 1381970 0 11500 11500 806 0 3052 0 1529 0 5152 0	540 2019 129169 0 15900 15900 838 0 47095 0 17829 0 37960 0	<ul> <li>Franch</li> <li>Oct 2019</li> <li>1447525</li> <li>0</li> <li>15500</li> <li>15500</li> <li>27400</li> <li>838</li> <li>0</li> <li>8132</li> <li>17416</li> <li>17529</li> <li>0</li> <li>27500</li> <li>0</li> </ul>	Nov 3 150 1 1 1 1 1 2
5000 0000 0000 0001 0001 0001 0001 0001	Kanson VD GE FR VS VD FR FR FR VS NE NE BE BE	Des Cassane Cassane Cass Feborag Sion Ecoleres VD Broc Caberi St-D Vegeoreaz La Cabogre Las Bern Stettishung	Advesso Rae de la Borde 2 Ourrin de Taelin Rae de Chringen 1 Avense de la Gare 5 Avense de la Gare 5 Avense de la Casa Domin de la Casa	Recongent Gernsche Legenecht Weinhuns Gernsche Legenecht Gernsche Legenecht Weinhuns Weinhuns Weinhuns Weinhuns Weinhuns Gernsche Legenecht	Bueinschafter Jo GNI SA, Laussme Cost GNI SA, Gentve Express SA, Vitas-sur- Jo GNI SA, Laussme Jo GNI SA, Laussme Jo GNI SA, Laussme Express SA, Vitas-sur- Express SA, Vitas-sur- Express SA, Vitas-sur- Express SA, Vitas-sur- Express SA, Vitas-sur- Laiseri AG, Oteermondi Laiseri AG, Oteermondi	Busmann Busmann Busmann Busmann Busmann Busmann Busmann Busmann Busmann Busmann Busmann Busmann	Dieme) (Dec 2019) 21454/002 6/910 21542 17/06 21542 17/06 21542 21745 22745 219271 241551 12/630 6/9306 24/637 6/9306	Auffall Milettine (Dia2016) (Dia2016) 17900 17900 17900 17900 886 620 8712 1133 7629 0 8100 0 8100 0 1900 0 1900 0 1900 0 1900 0 1900 0 1900 0 1900 0 1900 0 19000 100	Leentands guide (Dec 2019) 7,26 2,05 11,05 2,65 11,05 14,25 0,05 1,185 0,055 1,185 0,055 1,185	156/644 0 0 17980 2286 0 280 103 525 0 5280 0 2228	137539 0 17940 2256 0 420 103 420 0 5760 0 27128	Mar 2019 129°277 0 0 1'1%0 2'286 650 320 103 110 0 4'180 0 2'128	Apr 2019 128'136 0 0 1'1980 2'256 0 220 103 110 0 4'180 0 2'128	Mai: 2019 143:295 0 0 17340 27256 0 220 0 110 838 27320 0 22008	Jun 2019 136/072 0 0 11%00 2/286 0 420 0 11%0 838 2/220 0 2/008	Jul 2019 140/427 0 1/500 2/256 0 1/562 0 1/562 0 1/562 0 2/008	Aug 2019 1381970 0 11500 11500 806 0 3052 0 17529 0 5152 0 5152 0 2008	5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4	<ul> <li>€ 644×181</li> <li>Oct. 2019</li> <li>144/525</li> <li>0</li> <li>1500</li> <li>1700</li> <li>808</li> <li>0</li> <li>8132</li> <li>1816</li> <li>1729</li> <li>0</li> <li>2250</li> <li>0</li> <li>3228</li> </ul>	Nov 2 150 1' 1' 1' 1' 3' 1' 1' 2' 3'
51 0002 0001 0011 0011 0011 0011 0011 00	Kansan VD GE RR VD RR RR VD RR NG MG MG MG MG MG MG MG MG MG MG MG MG MG	Det Lausanne Onex Febourg Son Ecubiere VD Broc Crâteal St-D Vegrornar La Crâteajre Las Brenets Bern	Adresse Rae de la Borde 2 Derem de Tielsen Rae de Zhringen 1 Averse de la Gares 5 Norte de la Cartos Norte de La Cartos. La Sitte 3 Grand Rise 26 Nigoligaes 10	C. Nucargan Gernsche Ligerschaft Weinhaus Gernsche Ligerschaft Gernsche Ligerschaft Weinhaus Weinhaus Weinhaus Weinhaus Weinhaus Weinhaus Weinhaus	Buelinschafter Jio GNI SA, Lussenne Cost (SM SA, Genitive Express SA, Wilses eur Jio GNI SA, Lussenne Express SA, Wilses eur Express SA, Wilses eur Express SA, Wilses eur Express SA, Wilses eur Lainni AG, Ostermand Lainni AG, Ostermand	Busmann Busmann Busmann Busmann Busmann Busmann Busmann Busmann Busmann Busmann Busmann	Dieme) (Dec 2019) 21454/002 6(2910 21542 17206 31514 41526 21745 30567 30567 30567 30567 30567 30567 30567 30568 30568 30568 30568	Audial Miercine (Nemo) (Doc 2019) 17990 17900 17900 886 620 8112 183 17629 0 890 0 0	Learntands queite (Dec 2017) 7.2% 2.0% 7.0% 11.0% 2.4% 11.0% 14.2% 14.2% 0.9% 4.7% 0.0%	158/944 0 77940 2/216 0 2/20 103 5/25 0 5/200 0	137539 0 17940 27256 0 420 103 420 0 5760 0	Mar 2019 129°277 0 0 17980 2°286 660 320 103 100 0 4°180 0	Apr 2019 1281136 0 0 11140 22256 0 220 103 110 0 0 41500 0	Mai 2019 143/295 0 0 17960 2256 0 220 0 1710 838 2/320 0 0	Jun 2019 136/072 0 0 17/90 2/256 0 420 0 17/90 2/256 0 10/0 1838 838 2/220 0	Jul 2019 140/427 0 1/500 2/256 0 1/562 0 1/562 0 1/10 0 3/202 0	Aug 2019 1381970 0 11500 11500 806 0 3052 0 1529 0 5152 0	540 2019 129169 0 15900 15900 838 0 47095 0 17829 0 37960 0	<ul> <li>Franch</li> <li>Oct 2019</li> <li>1447525</li> <li>0</li> <li>15500</li> <li>15500</li> <li>27400</li> <li>838</li> <li>0</li> <li>8132</li> <li>17416</li> <li>17529</li> <li>0</li> <li>27500</li> <li>0</li> </ul>	Nov 20 150% 15 15 15 15 15 15 15 15 15 15 15 15 15
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- o Qlik Sense Desktop Application
- o Jira
- BitBucket
- o Pedia
- Microsoft Excel
- o Snagit
- o Console

# • DASHBOARD-1320 Improvement – Hide and Show rows in "Portfolio-Income Statement Yearly"

=	Aggr(Only({ <f q<="" th=""><th>٩</th><th>Values</th><th></th><th></th><th></th><th></th><th></th></f>	٩	Values					
			2016	2017	2018	2019	Ø Durchschnitt	2016 pro m <sup>2</sup>
0	-		19'056'942	19'248'621	17'561'607	19'766'358	18'908'382	8.7
•	11 - Free Cash Flow (FCF)	- Free Cash Flow (FCF)	19'056'942	19'248'621	17'561'607	19'766'358	18'908'382	113.4
٥	51 - Nettoertrag (OI)		27'251'013	27'010'524	25'962'984	27'469'491	26'923'503	162.2
0	52 - Betriebskosten		-2'290'608	-2'385'275	-2'801'487	-2'761'903	-2'559'818	13.6
0	85 - Bewirtschaftungsa Eigentümer		-5'060'698	-5'418'588	-6'129'092	-6'044'679	-5'663'264	30.1
0	87 - Nettoerfolg 1		22'190'315	21'591'935	19'833'892	21'424'812	21'260'239	132.1

Expand and collapse functionality using pivot table

#### Tools and Technologies used

- Qlik Sense Desktop Application
- o Jira
- o Pedia
- Visual Studio Code
- Microsoft Excel
- o Snagit
- DASHBOARD-1301 DEMO-Merge two DEMO ImmoCockpits into one To add portfolio "Demo Portefeuille" into ImmoCockpit DEMO

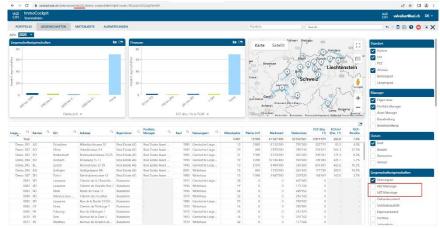


- Qlik Sense Desktop Application
- o Jira
- BitBucket
- o Pedia
- Microsoft Excel
- o SQL Server 2014 Management Studio

- o Snagit
- o Console

# • DASHBOARD-1393 Maintenance-tab "Property-Master Data" Typo IAZI Mikrolage & Makrolage

To correct two labels on property-master data tab



#### **Tools and Technologies used**

- Qlik Sense Desktop Application
- o Jira
- BitBucket
- o Pedia
- Microsoft Excel
- o Snagit
- o Console

# • DASHBOARD-1360 CPV-Error on Tab "Property Vacancy"

To show same data on property vacancy tab and rent analysis tab for property id 006, bug analysis, data checking, ceated separate table named BudgetByHistoricMonths for budget related data, for vacancy property chart coordinates expression changed.

- Qlik Sense Desktop Application
- o Jira
- BitBucket
- o Pedia
- Visual Studio Code
- Notepad++
- Microsoft Excel
- o Snagit
- Console

## • Testing of MGN cockpit on PROD env

For UI related issues and working of functionalities, document issues in pedia.

#### **Tools and Technologies used**

- o Pedia
- o Snagit

# • DASHBOARD-1387 SRG-Setup new ImmoCockpit

App and extension folder setup, to reload app on qlik sense desktop application, to add dynamic logo in mashup version, customizing theme on extension, data testing

#### **Tools and Technologies used**

- Qlik Sense Desktop Application
- o Jira
- BitBucket
- Qlik Deployment Framework
- o Pedia
- Visual Studio Code
- Notepad++
- Microsoft Excel
- SQL Server 2014 Management Studio
- o Snagit
- o Console

# DASHBOARD-1416 DEMO-Decommission "ImmoCockpit DEMO REPM5"

To take backup of app and extension and store to their respective folder in W drive, update the previous extension files with the new one, delete app, extensions and reload tasks of DEMO-REPM5 from QMC.

#### Tools and Technologies used

- o Pedia
- Microsoft Excel
- o Snagit

# • DASHBOARD-1272 Polit-Monitor – Change Header Row

To remove "Bookmark" icon from header row and change the position of "Current selection".

#### **Tools and Technologies used**

- Qlik Sense Desktop Application
- o Jira
- o BitBucket
- o Pedia
- Visual Studio Code
- o Snagit
- o Console

# • DASHBOARD-1273 Polit-Monitor – Display a Row Count

To display a row count of displayed items.

#### **Tools and Technologies used**

- Qlik Sense Desktop Application
- o Jira
- BitBucket
- o Pedia
- o Visual Studio Code
- Microsoft Excel
- o Snagit
- Console

# • DASHBOARD-1322 Polit-Monitor – Filter on "Einreichedatum" Missing

To add filter icon to "Einreichedatum" field to filter dates.

- Qlik Sense Desktop Application
- o Jira
- BitBucket
- o Pedia
- Notepad++
- Microsoft Excel
- o Snagit
- o Console

# **Certifications and Trainings completed under Internship and Self Study:**

# **Udemy Certifications:**

- QlikSense Data Architect Masterclass <u>https://www.udemy.com/share/101Xbm3@QH-</u> <u>sFdTs0\_hpBWCJUE8cxkCGLFx6RowJU6lmWD2Du3dd\_eeD-TXrReQLTjlQKyhF/</u>
- Certificate in Qlik Sense Analytics Development <u>https://www.udemy.com/share/101ZES3@1VZZPfWxpBpuJbHJjJY33AymyTfOC2eD</u> <u>BV-vGaIA9dwN67P1D0w9\_59QT2U62zDW/</u>

# **Tools and Technologies Used** Qlik Sense Desktop Application



Qlik Sense Desktop is a Windows application that gives individuals the opportunity to use Qlik Sense and create personalized, interactive data visualizations, reports, and dashboards from multiple data sources with drag-and-drop ease. Its use requires Qlik Sense Enterprise server credentials or a Qlik account.



Jira is a proprietary issue tracking service developed by Atlassian that allows bug tracking and agile project management. All the issues, stories, tasks, bugs were reported and assigned here, also sprint planning and backlogs are made and kept here. Work logs from and to are to be generated and then to be sent to team leaders at the end of the month for review.

# BitBucket



Bitbucket is a web-based version control repository hosting service owned by Atlassian, for source code and development projects that use either Mercurial (since launch) or Git revision control systems. Bitbucket offers both commercial plans and free accounts. It offers free accounts with an unlimited number of private repositories (which can have up to five users in the case of free accounts). Bitbucket integrates with other Atlassian software like Jira, HipChat, Confluence, and Bamboo.

# Pedia

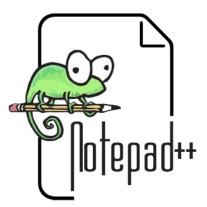
Documentation, tutorials and procedure, information, and all the data related to the company are stored here.

# Visual Studio Code



Visual Studio Code is a source code editor developed by Microsoft for Windows, Linux, and macOS It includes support for debugging, embedded Git control and GitHub, syntax highlighting, intelligent code completion, snippets, and code refactoring. It is highly customizable, allowing users to change the theme, keyboard shortcuts, preferences, and install extensions that add additional functionality. The source code is free and open-source and released under the permissive MIT License The compiled binaries are freeware and free for private or commercial use.

## Notepad ++



Notepad++ is a text and source code editor for use with Microsoft Windows. It supports tabbed editing, which allows working with multiple open files in a single window. The product's name comes from the C postfix increment operator. Notepad++ is distributed as free software.

# **Microsoft Excel**



Microsoft Excel is a spreadsheet developed by Microsoft for Windows, macOS, Android and iOS. It features calculation or computation capabilities, graphing tools, pivot tables, and a macro programming language called Visual Basic for Applications. Excel forms part of the Microsoft Office suite of software.

# SQL Server 2014 Management Studio



It is a software application first launched with Microsoft SQL Server 2005 that is used for configuring, managing, and administering all components within Microsoft SQL Server. The tool includes both script editors and graphical tools which work with objects and features of the server.

# **Remote Desktop Connection**



Remote Desktop Connection is one of the components of Microsoft Windows that allows a user to take control of a remote computer or virtual machine over a network connection. RDS is Microsoft's implementation of thin client, where Windows software, and the entire desktop of the computer running RDS, are made accessible to a remote client machine that supports Remote Desktop Protocol (RDP). With RDS, only software user interfaces are transferred to the client system. All input from the client system is transmitted to the server, where software execution takes place. This is in contrast to application streaming systems, like Microsoft App-V, in which computer programs are streamed to the client on-demand and executed on the client machine.

# Teamcity



TeamCity is a Java-based build management and continuous integration server from JetBrains. Commits (prevents developers from breaking sources in a version control system by running the build remotely for local changes before commit) Build Grid. Allows running multiple builds and tests under different platforms and environments simultaneously Integrated code coverage, inspections and duplicates search Integration with IDEs: Eclipse, IntelliJ IDEA, Visual Studio Platforms supported: Java, .NET, and Ruby. Once deployed to bitbucket, it then builds->runs >test->prod on teamcity, If failed, then it shows build logs where we can locate the errors

## Snagit



Snagit is screen capture and screen recording software for Windows and macOS. It is created and developed by TechSmith and was first launched in 1990. Snagit is available in English, French, German, Japanese, Portuguese and Spanish versions.

## Console

A console application is a computer program designed to be used via a text-only computer interface, such as text terminal, the command-line interface of some operating systems or the text-based interface included with most graphical user interface (GUI) operating systems, such as the Windows Console in Microsoft Windows, the Terminal in macOS, and xterm in Unix.

# Framework & languages used Qlik Deployment Framework

HTML & CSS

Javascript

# **Project timeline/Project diary** January 2022

- Week 1:
  - Introduction to Company
  - System configuration
  - Team Service Training: Introduction to WebAppHedo
  - Working on WebAppHedo
  - Team Dashboard Training
  - Testing PolitMonitor Dashboard
  - Started exploring QlikSense Desktop Application
  - Udemy course on Qlik Sense
- Week 2:
  - o Multi Tenancy/User Testing
  - Udemy course on Qlik Sense
  - Multi Tenancy with filters on PolitMonitor
  - Training on REPM5 demonstration

# February 2022

- Week 3:
  - Explored QlikSense Desktop Application
  - Practicing reloading ImmoCockpit, Mashup
  - Reloaded the ImmoCockpit App for TEST server
  - Exploring JIRA
  - Testing on REPM5
  - Dashboard KT Session on Mashup
  - Reloaded ImmoCockpit's PAX client
- Week 4:
  - o Reloaded ImmoCockpit's TELLCO, SUVA, CPV client
  - Training on Data Import, importing multiple table and to create data model, table concatenate, joining table in script, how to resolve synthetic key during data load, resident data load, drop tables and fields, preparing theme-extension, inline tables, mapping tables, crosstable, autogenerate, store, functions, RowNo, peek variables: LET and SET, group by clause
  - Practicing Mashup, Data Import, importing multiple tables, table concatenate, joining table in script, to resolve synthetic key during data load
  - o DASHBOARD-1288 Rent App usage dashboard
  - Presentation on Company and Products
- Week 5:
  - o DASHBOARD-1288 Rent App usage dashboard

- Understanding the charts and use of dimensions and measures in ImmoCockpit's Autoreload app
- Checked cockpits for any UI related issues
- Training on Measures and Dimensions, Reloading of ImmoCockpits
- Week 6:
  - o DASHBOARD-1288 Rent App usage dashboard
  - Understanding the dimensions of the line chart from ImmoCockpit AutoReload App
  - Training n Data loading using Data Manager, how to commit changes, setting up of an app on the server

# March 2020

- Week 7:
  - DASHBOARD-1288 Rent App usage dashboard
  - Training on Qlik Deployment Framework
  - Rent App usage dashboard mashup version
  - Presentation on "Deployment Process Overview" by System Team
- Week 8:
  - Rent App usage dashboard mashup version
  - Presentation Qlik NPrinting from axed
  - o DASHBOARD-1339 SHA-Create New ImmoCockpit for Stiftung Habitat

## • Week 9:

- DASHBOARD-1339 SHA-Create New ImmoCockpit for Stiftung Habitat
- Rent App usage dashboard mashup version
- IAZI and IIT Security Awareness Training 2021
- Rent App usage dashboard mashup version improvements
- Week 10:
  - o DASHBOARD-1288 Rent App usage dashboard
  - o Rent App usage dashboard mashup version improvements

# April 2022

- Week 11:
  - Rent App usage dashboard mashup version improvements
  - Tested ImmoCockpits FON, Generali, PAX clients on PROD
  - Configuration testing of IAZI Tools: LORE, MapsPro Rent Check
  - Rent App usage dashboard
  - DASHBOARD-1361 Hypo Create Clone of Demo HypoCockpit for TKB
  - Configuration Testing on PROD and PW setup

- Week 12:
  - DASHBOARD-1361 Hypo Create Clone of Demo HypoCockpit for TKB
  - DASHBOARD-1373 Maintenance-chart Title has typo
  - Completed IAZI & IIT Security Awareness Training 2021
  - DASHBOARD-1320 Improvement Hide and Show rows in "Portfolio-Income Statement Yearly"
  - Attended IIT Annual Presentation + EMC Meeting
- Week 13:
  - DASHBOARD-1320 Improvement Hide and Show rows in "Portfolio-Income Statement Yearly"
  - o DASHBOARD-1301 DEMO-Merge two DEMO ImmoCockpits into one
  - DASHBOARD-1393 Maintenance-tab "Property-Master Data" Typo IAZI Mikrolage & Makrolage
  - Documentation of issues: DASHBOARD-1393, 1301
- Week 14:
  - o Documentation of issues: DASHBOARD-1301, 1320, 1361, 1373, 1288
  - o DASHBOARD-1288 Data modelling using Data manager
  - DASHBOARD-1360 CPV-Error on Tab "Property Vacancy"
- Week 15:
  - o DASHBOARD-1360 CPV-Error on Tab "Property Vacancy"
  - Testing of MGN cockpit on PROD env
  - DASHBOARD-1387 SRG-Setup new ImmoCockpit

# May 2022

- Week 16:
  - DASHBOARD-1387 SRG-Setup new ImmoCockpit
  - DASHBOARD-1301 DEMO-Merge two DEMO ImmoCockpits into one
  - DASHBOARD-1416 DEMO-Decommission "ImmoCockpit DEMO REPM5"
  - o DASHBOARD-1360 CPV-Error on Tab "Property Vacancy"
- Week 17:
  - o DASHBOARD-1301 DEMO-Merge two DEMO ImmoCockpits into one
  - DASHBOARD-1360 CPV-Error on Tab "Property Vacancy"
  - DASHBOARD-1387 SRG-Setup new ImmoCockpit
  - Presentation by Ismail Sir
- Week 18:
  - o DASHBOARD-1360 CPV-Error on Tab "Property Vacancy"
  - Security Snapshots Training by KnowBe4
  - DASHBOARD-1387 SRG-Setup new ImmoCockpit

- Week 19:
  - DASHBOARD-1387 SRG-Setup new ImmoCockpit
  - DASHBOARD-1272 Polit-Monitor Change Header Row
  - o DASHBOARD-1273 Polit-Monitor Display a Row Count

# **June 2022**

- Week 20:
  - o DASHBOARD-1273 Polit-Monitor Display a Row Count
  - DASHBOARD-1322 Polit-Monitor Filter on "Einreichedatum" Missing

# My reflections/experiences of internship

My internship at IMMO has been a wonderful and growing experience. Starting from the interviews to date, it helped us in exploring our potentials, and focus on our growth while not letting die the hunger to learn more.

I was fortunate to receive training as part of my internship. As I reflect on all we have learned, I realize what this has been an excellent experience. We gathered much knowledge in the classroom, but a hands-on approach has been invaluable. It has served as a beneficial ending to my formal education. Skills such as multitasking, communicating, learning to deal with diversity, and dealing with deadlines are different when you are working for someone else. It is amazing to see how people from different regions stay as one family and work together.

We had so much to learn about the company itself, as to what kind of projects it deals with, who are the clients, what are the company traditions, etc. To help us understand the company more, and give an idea of what each team in the company does, every first Saturday of the month each team explains their work using presentations. This was often followed by fun quiz sessions, which kept me engaged and made it more interesting.

Overall, I'm glad to be a part of IMMO and looking forward to facing new challenges with the knowledge that I have acquired here.

# References

- <u>http://immoinfotech.com/</u>
- https://products.aspose.app/imaging/image-crop/svg
- https://www.w3schools.com/
- <u>https://help.qlik.com/</u>