



MÜHENDİSLİK VE MİMARLIK FAKÜLTESİ

STAJ RAPORU

Workplace Training Diary



ÖĞRENCİNİN ADI SOYADI <i>Name of Student</i>	Leyla Abdullayeva
NUMARASI <i>Student ID Number</i>	1904010038
BÖLÜMÜ <i>Department</i>	Computer Engineering – Bilgisayar Mühendisliği
STAJ DERS KODU <i>Workplace Training Course Code</i>	60000INEOZ-CME0098
Staj Yapılan Kuruluşun Adı <i>Place of Workplace Training</i>	Rest Yazılım Danışmanlık San.Tic. A.Ş.
İşyeri Sorumlusu Adı Soyadı <i>Name of Workplace Manager</i>	Sedat Cengiz
İşyeri Sorumlusu – Kontrol Edenin Ünvanı <i>Name and title of Workplace Manager and Controlling Supervisor</i>	Kıdemli Veri Analisti – Lead Data Analyst

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ÇALIŞMA ÖZETİ

Summary of Work Done.

Çalışılan her bölüm için ayrı satır kullanınız ve gerektiği kadar satır ekleyiniz.
Use a separate line for each department worked and add lines as needed.

ÇALIŞTIĞI BÖLÜM <i>Department Worked</i>	BAŞLAMA TARİHİ <i>Starting Date</i>	AYRILDIĞI TARİH <i>Completion Date</i>	ÇALIŞMADIĞI GÜN SAYISI <i>Number of Nonworking Days</i>	ÇALIŞTIĞI GÜN SAYISI <i>Number of Working Days</i>
Yazılım Geliştirme	14.06.2023	14.07.2023	0	20

HAFTA BAZINDA YAPILAN ÇALIŞMALAR

Week by Week Work Done

Her hafta için ayrı sayfa kullanınız ve gerektiği kadar sayfa ekleyiniz.

Use a separate page for each week and pages as needed.

WEEK I

Hafta I

HAFTA BAŞLAMA TARİHİ <i>Week Starting Date</i>	14.06.2023
HAFTA BİTİŞ TARİHİ <i>Week Ending Date</i>	16.06.2023

GÜN <i>Days</i>	YAPILAN İŞLER <i>Work Done</i>	ÇALIŞILAN SAAT SAYISI <i>Hours Worked</i>
CARŞAMBA <i>Wednesday</i>	1. Getting familiar with the office and the workplace 2. First look at "Rest Software and Consultancy" company	8
PERŞEMBE <i>Tuesday</i>	1. Orientation and Introduction to Zoho Tools 2. Learning Zoho Software and its' tools 3. Team Meeting and Knowledge Sharing on Zoho Tools	8
CUMA <i>Friday</i>	1. Introduction to RPA (Robotic Process Automation) 2. Reviewed RPA documentation 3. Participated in a team meeting on ongoing RPA projects	8

ÖĞRENCİNİN İMZASI <i>Signature of Student</i>	
ÇALIŞTIĞI BÖLÜM <i>Department Worked</i>	RPA (Robotic Process Automation) / Software Development
KONTROL EDENİN ADI UNVANI <i>Name and Title of Controlling Supervisor</i>	Sedat Cengiz / Kıdemli Veri Analisti
İMZA ve KAŞE <i>Signature and Stamp</i>	

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HAFTA BAZINDA YAPILAN ÇALIŞMALAR

Week by Week Work Done

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WEEK II

Hafta II

HAFTA BAŞLAMA TARİHİ <i>Week Starting Date</i>	19.06.2023
HAFTA BİTİŞ TARİHİ <i>Week Ending Date</i>	23.06.2023

GÜN <i>Days</i>	YAPILAN İŞLER <i>Work Done</i>	ÇALIŞILAN SAAT SAYISI <i>Hours Worked</i>
PAZARTESİ <i>Monday</i>	1. Installation of Development Tools 2. Creating Development Plan of “Nexus Bot”	8
SALI <i>Tuesday</i>	1. Introduction to Selenium 2. Setting Up Selenium Environment	8
ÇARŞAMBA <i>Wednesday</i>	- NodeRunner.exe installation	8
PERŞEMBE <i>Tuesday</i>	1. Getting familiar with DHL 2. Creating a task schema and plan for “Nexus Bot”	8
CUMA <i>Friday</i>	- Introduction BitBucket & Git Commits	8

ÖĞRENCİNİN İMZASI <i>Signature of Student</i>	
ÇALIŞTIĞI BÖLÜM <i>Department Worked</i>	RPA (Robotic Process Automation) / Software Development
KONTROL EDENİN ADI UNVANI <i>Name and Title of Controlling Supervisor</i>	Sedat Cengiz / Kıdemli Veri Analisti
İMZA ve KAŞE <i>Signature and Stamp</i>	

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HAFTA BAZINDA YAPILAN ÇALIŞMALAR

Week by Week Work Done

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WEEK III

Hafta III

HAFTA BAŞLAMA TARİHİ <i>Week Starting Date</i>	26.06.2023
HAFTA BİTİŞ TARİHİ <i>Week Ending Date</i>	27.06.2023

GÜN <i>Days</i>	YAPILAN İŞLER <i>Work Done</i>	ÇALIŞILAN SAAT SAYISI <i>Hours Worked</i>
PAZARTESİ <i>Monday</i>	1. "I-29" task for "Nexus-Bot" 2. Uploading code to company's "BitBucket"	8
SALI <i>Tuesday</i>	1. "Clean Code" meeting 2. Fixing issues in "Nexus Bot"'s code	8

ÖĞRENCİNİN İMZASI <i>Signature of Student</i>	
ÇALIŞTIĞI BÖLÜM <i>Department Worked</i>	RPA (Robotic Process Automation) / Software Development
KONTROL EDENİN ADI UNVANI <i>Name and Title of Controlling Supervisor</i>	Sedat Cengiz / Kıdemli Veri Analisti
İMZA ve KAŞE <i>Signature and Stamp</i>	



HAFTA BAZINDA YAPILAN ÇALIŞMALAR

Week by Week Work Done

Her hafta için ayrı sayfa kullanınız ve gerektiği kadar sayfa ekleyiniz.

Use a separate page for each week and pages as needed.

WEEK IV

Hafta IV

HAFTA BAŞLAMA TARİHİ <i>Week Starting Date</i>	03.07.2023
HAFTA BİTİŞ TARİHİ <i>Week Ending Date</i>	07.07.2023

GÜN <i>Days</i>	YAPILAN İŞLER <i>Work Done</i>	ÇALIŞILAN SAAT SAYISI <i>Hours Worked</i>
PAZARTESİ <i>Monday</i>	1. Analyzing Documents related to Logistics	8
SALI <i>Tuesday</i>	1. Creating “Nexus Bot” Demo 2. Deployment plan creation	8
ÇARŞAMBA <i>Wednesday</i>	- Django Installation	8
PERŞEMBE <i>Tuesday</i>	- Learning Deployment of our product with Django	8
CUMA <i>Friday</i>	- Deployment Day of “Nexus RPA Bot” – with Django (Python)	8

ÖĞRENCİNİN İMZASI <i>Signature of Student</i>	
ÇALIŞTIGI BÖLÜM <i>Department Worked</i>	RPA (Robotic Process Automation) / Software Development
KONTROL EDENİN ADI UNVANI <i>Name and Title of Controlling Supervisor</i>	Sedat Cengiz / Kıdemli Veri Analisti
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HAFTA BAZINDA YAPILAN ÇALIŞMALAR

Week by Week Work Done

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Use a separate page for each week and pages as needed.

WEEK V

Hafta V

HAFTA BAŞLAMA TARİHİ <i>Week Starting Date</i>	10.07.2023
HAFTA BİTİŞ TARİHİ <i>Week Ending Date</i>	14.07.2023

GÜN <i>Days</i>	YAPILAN İŞLER <i>Work Done</i>	ÇALIŞILAN SAAT SAYISI <i>Hours Worked</i>
PAZARTESİ <i>Monday</i>	1. "Rest Orange" Meeting 2. "Rest Orange" App planning	8
SALI <i>Tuesday</i>	- Rest Orange User Stories & Planning	8
CARŞAMBA <i>Wednesday</i>	1. Rest Blue (Shopping App) planning 2. Rest Blue App explanation with drawings	8
PERŞEMBE <i>Tuesday</i>	1. Rest Orange Analysis Standarts 2. Database Design of "Rest Orange" App	8
CUMA <i>Friday</i>	1. Test Scenarios creation 2. Postman Documentation 3. API Task with "Postman"	8

ÖĞRENCİNİN İMZASI <i>Signature of Student</i>	
ÇALIŞTIĞI BÖLÜM <i>Department Worked</i>	RPA (Robotic Process Automation) / Software Development
KONTROL EDENİN ADI UNVANI <i>Name and Title of Controlling Supervisor</i>	Sedat Cengiz / Kıdemli Veri Analisti
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GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	14.06.2023
BÖLÜM <i>Department</i>	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ <i>Work Done</i>	Acquaintance with the office, workplace, system, working structure.

Day 1 – 14.06.2023

On the first day of my internship at Rest Software, I was filled with excitement and anticipation as I embarked on this new journey with a company driven by a vision of delivering innovative solutions in the ever-evolving technological landscape. Established in 2021, Rest Software is built upon years of experience, combining expertise in business development processes with cutting-edge technological solutions to cater to the integration of industry needs and business models into digital transformation processes. During the orientation session, I was introduced to the company's core values and mission, which revolve around guiding their clients to adapt and thrive in the era of digital transformation. With a focus on key technologies like artificial intelligence, blockchain, IoT, cloud computing, and industry 4.0 standards, Rest Software aims to empower businesses to manage their transformation projects efficiently and compete effectively in today's dynamic market. As I familiarized myself with the company's mission and vision, I sensed the passion and commitment among the team to drive meaningful change through technology. The friendly and supportive environment made me feel welcome from the start, and I was introduced to my supervisor, who outlined the objectives and expectations of my internship.

Throughout the day, I also had the opportunity to interact with some of my future colleagues, witnessing their enthusiasm and expertise firsthand. I was inspired by their dedication to developing innovative solutions and their emphasis on collaboration and continuous learning. Looking ahead, I am eager to contribute my skills and knowledge to the projects at Rest Software, as well as to learn from the experienced professionals in the team. I believe that this internship will provide me with valuable insights into the world of digital transformation and technology-driven solutions, and I am excited to be a part of the team that shapes the future of the industry. As an RPA Development Intern at Rest Software, I will play a crucial role in supporting the company's commitment to delivering innovative solutions through Robotic Process Automation (RPA). My main responsibilities will involve collaborating with the RPA development team to design, develop, and implement automation workflows that streamline business processes and improve efficiency. During my internship, I will have the opportunity to gain hands-on experience with RPA tools and technologies, work on real-world projects, and contribute to the transformational journey of our clients. This position will provide me with invaluable insights into the world of automation and equip me with practical skills to thrive in the ever-evolving tech industry. Throughout the internship, I will actively participate in team meetings and engage with experienced professionals to learn best practices in RPA development.

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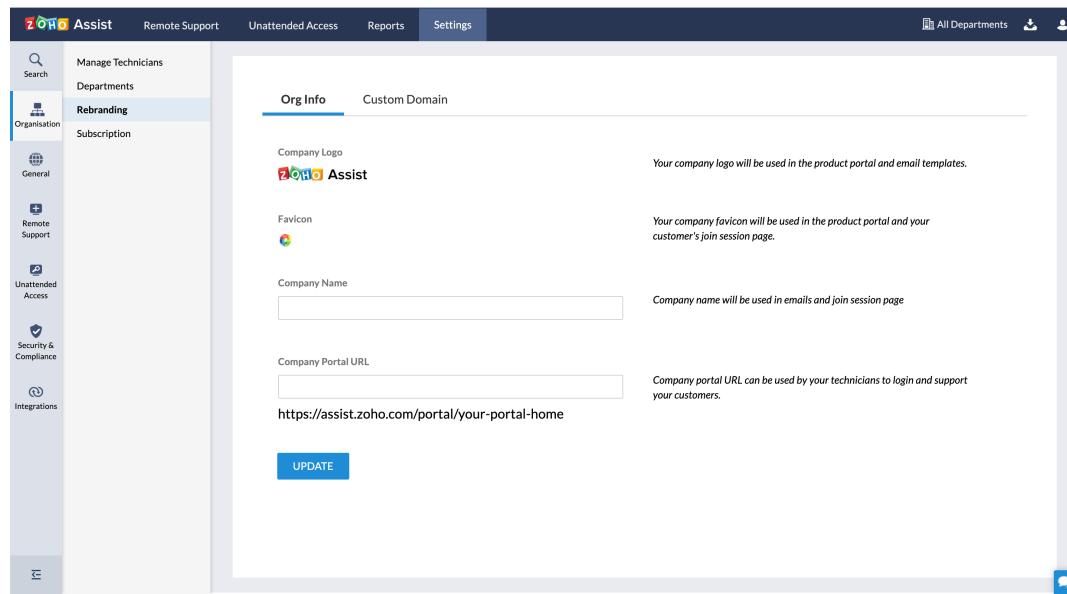
Diary

TARİH <i>Date</i>	15.06.2023
BÖLÜM <i>Department</i>	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ <i>Work Done</i>	Zoho Tools Installation, Learning & Team Meeting

Day 2 – 15.06.2023

2nd day, I joined a meeting about Zoho Tools. On my first day as an RPA Development Intern at Rest Software, I began by setting up my workstation and installing essential Zoho tools for seamless collaboration and productivity. Following the guidance of the IT department, I installed the Zoho Suite, including Zoho CRM, Zoho Cliq, and other relevant portals and applications. The installation process was straightforward, and I quickly gained access to these powerful tools that would become instrumental in our daily operations. Later that day, I joined a team meeting where the focus was on Zoho CRM and Zoho applications in general. During the meeting, I received a comprehensive overview of Zoho CRM's functionalities, its role in managing customer relationships, and how it streamlined various sales and marketing processes. This deep dive into Zoho CRM gave me valuable insights into how businesses leverage this platform to enhance customer interactions and drive growth.

In addition to Zoho CRM, the meeting covered other Zoho applications like Zoho Cliq, which facilitates seamless team communication through instant messaging and file sharing. I learned how Cliq acted as a central hub for our team to collaborate, share project updates, and coordinate tasks efficiently. Moreover, the team introduced me to other Zoho portals and apps that integrated seamlessly with Zoho CRM, ensuring a holistic approach to managing customer data and business processes.



Zoho Assist Installation to my local device

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GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	15.06.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	Zoho Tools Installation, Learning & Team Meeting

Day 2 – 15.06.2023 – Part II

After the team meeting, I took some time to explore and get familiar with Zoho CRM and Zoho Cliq. I navigated through the intuitive interfaces, explored the various features, and experimented with creating and managing leads, contacts, and deals within Zoho CRM. The platform's user-friendly design and interactive tutorials allowed me to quickly grasp its functionalities and dive into more advanced features.

As the day concluded, I felt confident in my ability to utilize Zoho tools effectively. With the installation and initial familiarization complete, I was eager to embark on the exciting projects ahead and utilize these powerful Zoho applications to enhance our RPA development processes and streamline communication within the team. The installation process of Zoho tools at Rest Software was a smooth and well-guided experience. As a fresh intern, the IT department provided me with a detailed installation guide and support throughout the setup. To begin, I accessed the Zoho Admin Console, where I was granted access to the various Zoho applications required for my role. Firstly, I installed Zoho CRM, which is a cornerstone of Rest Software's customer relationship management efforts. The installation involved a few simple steps, including downloading the CRM application from the Zoho website and running the setup wizard. The wizard prompted me to enter my login credentials, and within minutes, I gained access to Zoho CRM's user-friendly interface, equipped with all the tools needed to manage leads, contacts, and deals efficiently. Next, I installed Zoho Cliq, the team communication app that plays a vital role in fostering collaboration within the organization. The installation process for Cliq was equally straightforward, with a quick download and setup that seamlessly integrated the app into my workstation. I was able to join the company's Cliq channels, allowing me to communicate instantly with team members and stay updated on important announcements and project discussions. Apart from CRM and Cliq, I also explored other Zoho portals and applications relevant to my internship role. These installations were equally hassle-free and interconnected, ensuring a unified ecosystem for managing different aspects of the organization's operations. Throughout the installation process, I appreciated the user-friendly interfaces and the availability of helpful tutorials and guides provided by Zoho. The seamless integration of Zoho tools into my workstation allowed me to quickly get started with my internship tasks without any technical hurdles. With the Zoho tools now readily accessible, I felt prepared and eager to leverage their capabilities in contributing to the team's RPA development projects.

GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	16.06.2023
BÖLÜM <i>Department</i>	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ <i>Work Done</i>	<i>Introduction to RPA & reading documentation.</i>

Day 3 – 16.06.2023

Robotic Process Automation (RPA) is an innovative technology that I had the opportunity to explore during my internship at Rest Software. RPA involves the use of software robots or bots to automate repetitive tasks, streamlining business processes and improving operational efficiency. As an RPA Development Intern, I was excited to be part of the team responsible for harnessing the power of automation to drive digital transformation. During one of the team meetings focused on RPA development, I gained insights into the ongoing RPA projects at Rest Software. The meeting provided an overview of how RPA was being applied to various business processes within the company and its clients. As a newcomer, I had the chance to learn from experienced developers and understand the best practices and challenges associated with implementing RPA solutions effectively.

Reviewing RPA documentation played a pivotal role in my understanding of writing robotic codes and the principles behind building a BOT. I dived into resources that outlined the key components of RPA, such as creating workflows, handling exceptions, and integrating with different applications. Python knowledge proved beneficial during this process, as I realized its significance in RPA development, given its flexibility and extensive libraries that can enhance automation capabilities.

Joining the team meeting about RPA development for an ongoing project was a valuable experience. I observed the collaborative nature of the team, where ideas were exchanged freely, and solutions were crafted collectively. As an intern, my role was to assist in developing RPA workflows, carrying out extensive testing, and troubleshooting to ensure the bots operated flawlessly. The team's mentorship and guidance during the meeting allowed me to learn from real-world examples, sharpen my skills, and apply my Python knowledge effectively.

In conclusion, being part of the RPA development team during the internship provided me with a comprehensive understanding of the practical applications of this technology. My involvement in the team meeting and the review of RPA documentation expanded my knowledge of writing robotic codes and utilizing robotic technology to create functional bots. The collaborative environment fostered a positive learning experience, where I could contribute my Python expertise while gaining valuable insights into RPA project management and development processes.

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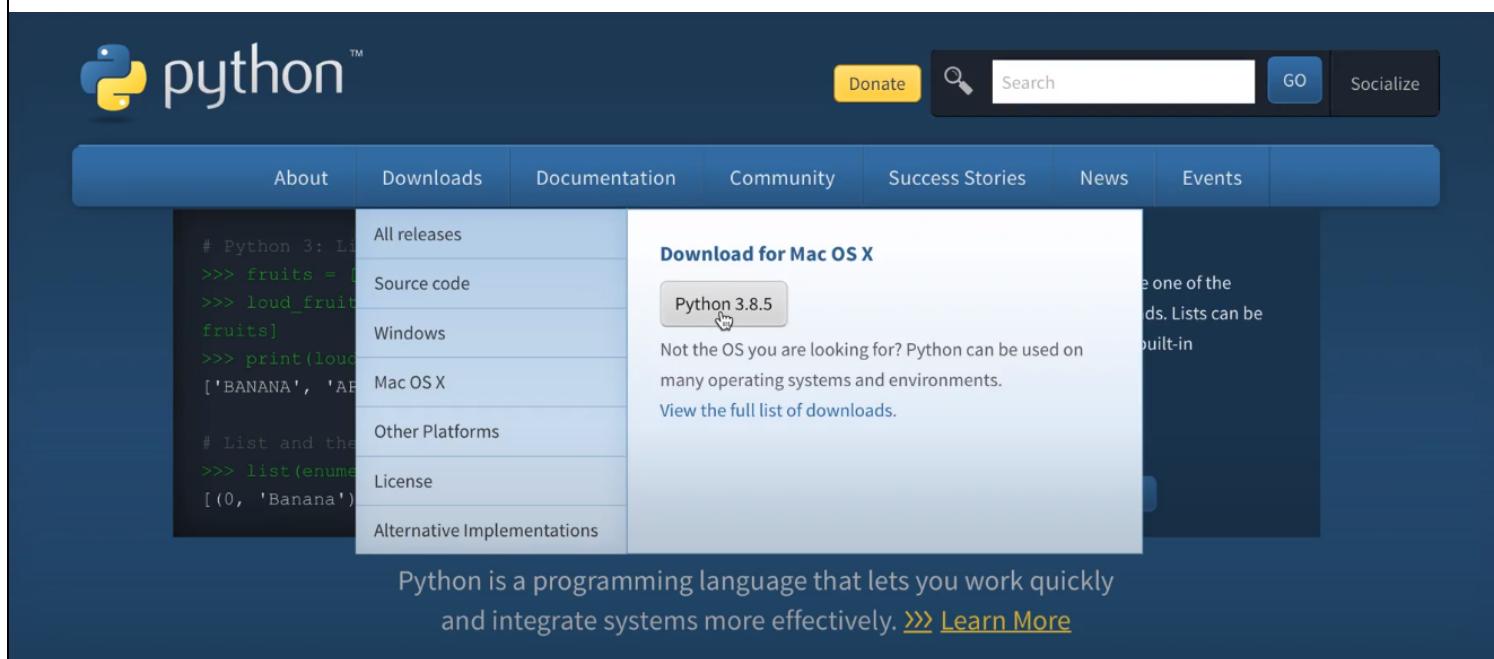
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Diary

TARİH <i>Date</i>	19.06.2023
BÖLÜM <i>Department</i>	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ <i>Work Done</i>	RPA Development Tools Installation.

Day 4 – 19.06.2023

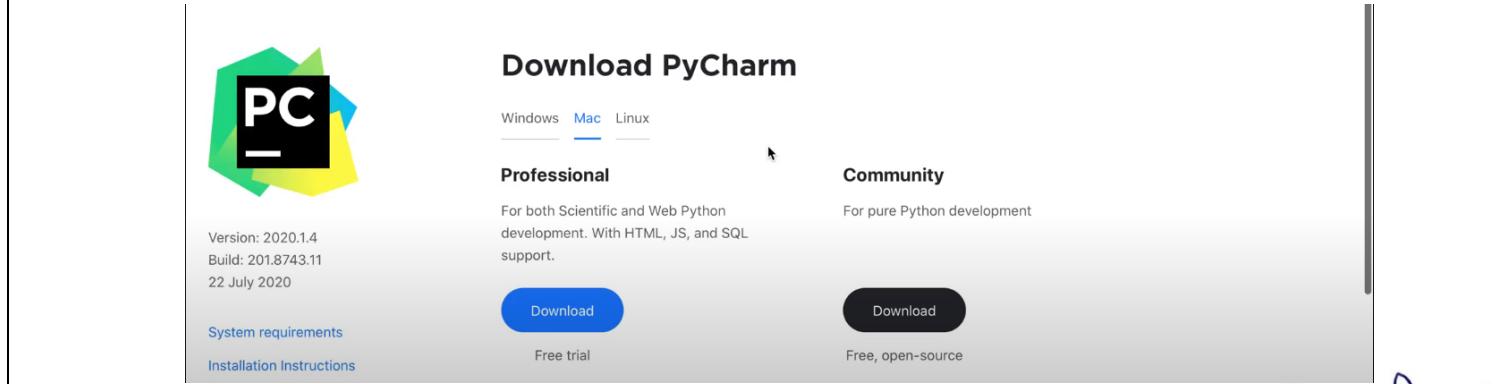
The installation of essential development tools for RPA was a crucial step in empowering me as an RPA Development Intern at Rest Software. Python, being a versatile and widely-used programming language, was the foundation of our RPA development process. Installing Python involved downloading the latest version from the official website and configuring it to work seamlessly on my workstation. PyCharm, the Integrated Development Environment (IDE) of choice for Python, provided a user-friendly and feature-rich platform for coding, debugging, and version control. The installation of PyCharm was straightforward, with step-by-step instructions to set up the IDE efficiently.



The screenshot shows the Python official website's download section for Mac OS X. The top navigation bar includes links for About, Downloads, Documentation, Community, Success Stories, News, and Events. A sidebar on the left contains code snippets for Python 3.8.5, including examples for lists and tuples. The main content area features a large button for "Download for Mac OS X" with the Python 3.8.5 version highlighted. Below the button, text explains that Python can be used on many operating systems and environments, with a link to view the full list of downloads.

Python is a programming language that lets you work quickly and integrate systems more effectively. [» Learn More](#)

Installation of latest version of Python



The screenshot shows the PyCharm download page. It features a large image of the PyCharm logo (a stylized 'PC' inside a green hexagon). Below the logo, text indicates the version is 2020.1.4, build 201.8743.11, dated 22 July 2020. There are two main download options: "Professional" for Windows, Mac, and Linux, and "Community" for pure Python development. Both options include "Download" buttons. The "Professional" section also includes "Free trial" and "Free, open-source" links.

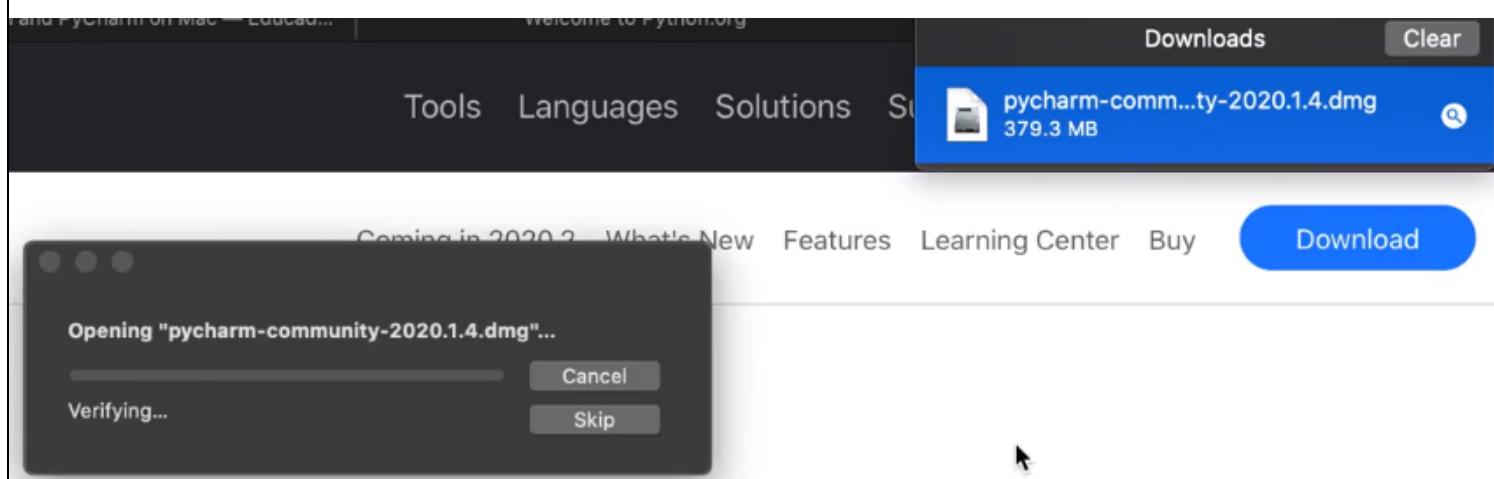
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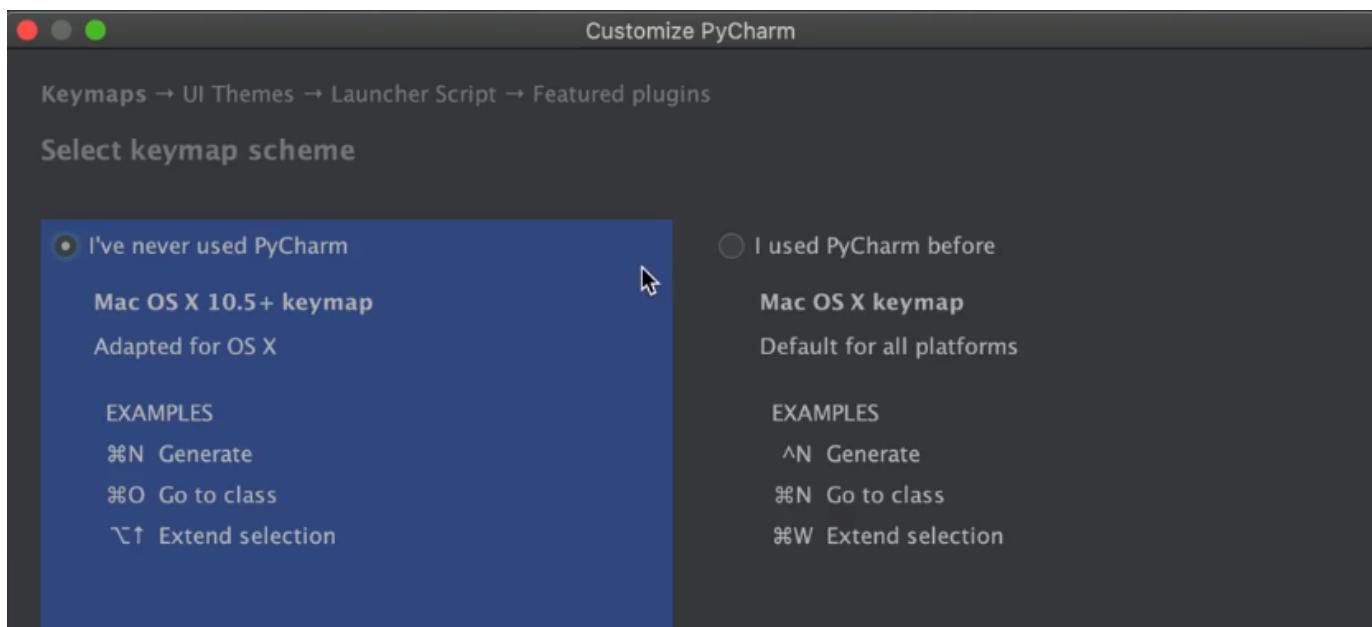
TARİH <i>Date</i>	19.06.2023
BÖLÜM <i>Department</i>	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ <i>Work Done</i>	PyCharm Installation.

Day 4 – 19.06.2023 – Part II

PyCharm – Local Development Environment Installation



By setting up these development tools, I was well-equipped to embark on my RPA development journey. These tools formed the backbone of our RPA projects, allowing me to write and execute code efficiently, conduct thorough testing, and contribute effectively to ongoing automation initiatives. The ease of installation and the resources available online for Python and PyCharm made the setup process seamless, enabling me to focus on honing my skills and developing innovative RPA solutions for Rest Software's clients.



GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	19.06.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	"Nexus Bot" – Development Planning

Day 4 – 19.06.2023 – Part III

As Rest Software Development & Consultancy, our main ongoing Project was creating RPA Bot called "Nexus" for our partner firm which was "DHL" – globally very famous shipping and delivery, and logistics company. So, me and my other RPA team members were given a development plan for our bot. Business Analysts and us, developers worked hard together and created real development plan as a document in order to guide us.

DEVELOPMENT PLAN – NEXUS RPA

Name of the Program	Nexus RPA
Working Principle	Nexus RPA Build
Request Type	Software

AIM

Packing lists received by our customer via e-mail are sent to the nexus website with the program written. fix by connecting and display the corrected records on the application screen

SCOPE

- 1.) Setting up the folder structure
- 2.) Programming the packing lists with the definition made on the application
- 3.) Connecting to the nexus website through the application
- 4.) Checking the packing lists and correcting the wrong ones on the website
- 5.) Displaying the corrected records on the program frontend

WORK TO BE DONE

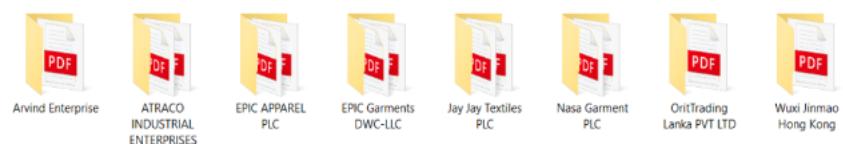
- 1.) Setting up the folder structure

8 folders where the packing lists of each customer will be sent to the server where the application will be installed. the program to be created, the program to be written will be mapped to these folders, the program will will check. Packing lists to be thrown can be original pdf as well as image file.
it could be.

The companies whose folder will be created;

- 1)Arvind Enterprise
- 2)ATRACO INDUSTRIAL ENTERPRISES
- 3)EPIC APPAREL PLC
- 4)EPIC Garments DWC-LLC
- 5)Jay Jay Textiles PLC
- 6)Nasa Garment PLC
- 7) OritTrading Lanka PVT LTD
- 8) Wuxi Jinmao Hong Kong

Görsel 1



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GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	19.06.2023
BÖLÜM <i>Department</i>	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ <i>Work Done</i>	"Nexus Bot" – Development Plan (Step by Step)

Day 4 – 14.06.2023

2.) Programming the packing lists with the definition made on the application

After the packing lists left in the folders are read, they are transferred to the main screen of the written program. customer image. It may interfere with the transferred data in case the files are transferred incompletely. The discarded data should allow for replacement.

Example: Since it is an image file, the program may not read the PPK Qty line in the packin list.

You may want to fill it yourself. The presence of a tab on the front of the program where it can connect to the client nexus website transfers It will make it easier to control.

Order	Serial From	Serial To	Pack Code	MOB	Article	Matrikel Key	Line #	Size	Color	Short Description	PPK Qty	E	C	T	I	O	G	F	P	S	C	L	H	Unit	Weight	Gross
6091	342767018	042767016	3020856519-190	645709	3020856001	109	09101	4	FLAX	12PCSPAC FLAX/U STR JOGGER PANT	21	21	1	3	7	7.500	52.500	8.500	66.600	KG	52	21	34	CM	C.304	
				645709	3020856003		09102	6	FLAX	12PCSPAC FLAX/U STR JOGGER PANT	-42	2														
				645709	3020856004		09103	7	FLAX	12PCSPAC FLAX/U STR JOGGER PANT	-42	2														
				645709	3020856005		09104	8	FLAX	12PCSPAC FLAX/U STR JOGGER PANT	-42	2														
				645709	3020856006		09105	10	FLAX	12PCSPAC FLAX/U STR JOGGER PANT	-42	2														
				645709	3020856007		09106	12	FLAX	12PCSPAC FLAX/U STR JOGGER PANT	42	2														
				645709	3020856008		09107	14	FLAX	12PCSPAC FLAX/U STR JOGGER PANT	21	1														
6092	342767038	042767038	3020856524-160	645710	3020856001	109	09101	4	FLAX	12PCSPAC FLAX/U STR JOGGER PANT	27	27	1	3	9	7.500	67.500	8.500	76.600	KG	52	21	34	CM	C.493	
				645710	3020856002		09102	5	FLAX	12PCSPAC FLAX/U STR JOGGER PANT	27	1														
				645710	3020856003		09103	6	FLAX	12PCSPAC FLAX/U STR JOGGER PANT	27	1														
				645710	3020856004		09104	7	FLAX	12PCSPAC FLAX/U STR JOGGER PANT	27	1														
				645710	3020856005		09105	8	FLAX	12PCSPAC FLAX/U STR JOGGER PANT	54	2														
				645710	3020856006		09106	10	FLAX	12PCSPAC FLAX/U STR JOGGER PANT	54	2														
				645710	3020856007		09107	12	FLAX	12PCSPAC FLAX/U STR JOGGER PANT	54	2														

3) Connecting to the nexus website through the application

<https://preprod.infornexus.com/login>

User: bush.firat@dhl.com

Pswd: Yenipassword!2468

1) After the Packing list is transferred to the program, after the program connects to the website whose automatic information is given. Then the shipping order number is taken from the Packing list and written in the relevant field. The relevant record is accessed with the search button.

The screenshot shows the DHL website interface. At the top, there's a navigation bar with links for Applications, Tools, Analytics, and Create. Below that is a search bar with the placeholder "Search Transactions". A red arrow points from the search bar down to the search results page. The search results page displays a single record with the transaction number "2022828037" and the note "PPRD - 224.2 - Non-Production Environment".

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GÜNLÜK RAPOR

Diary

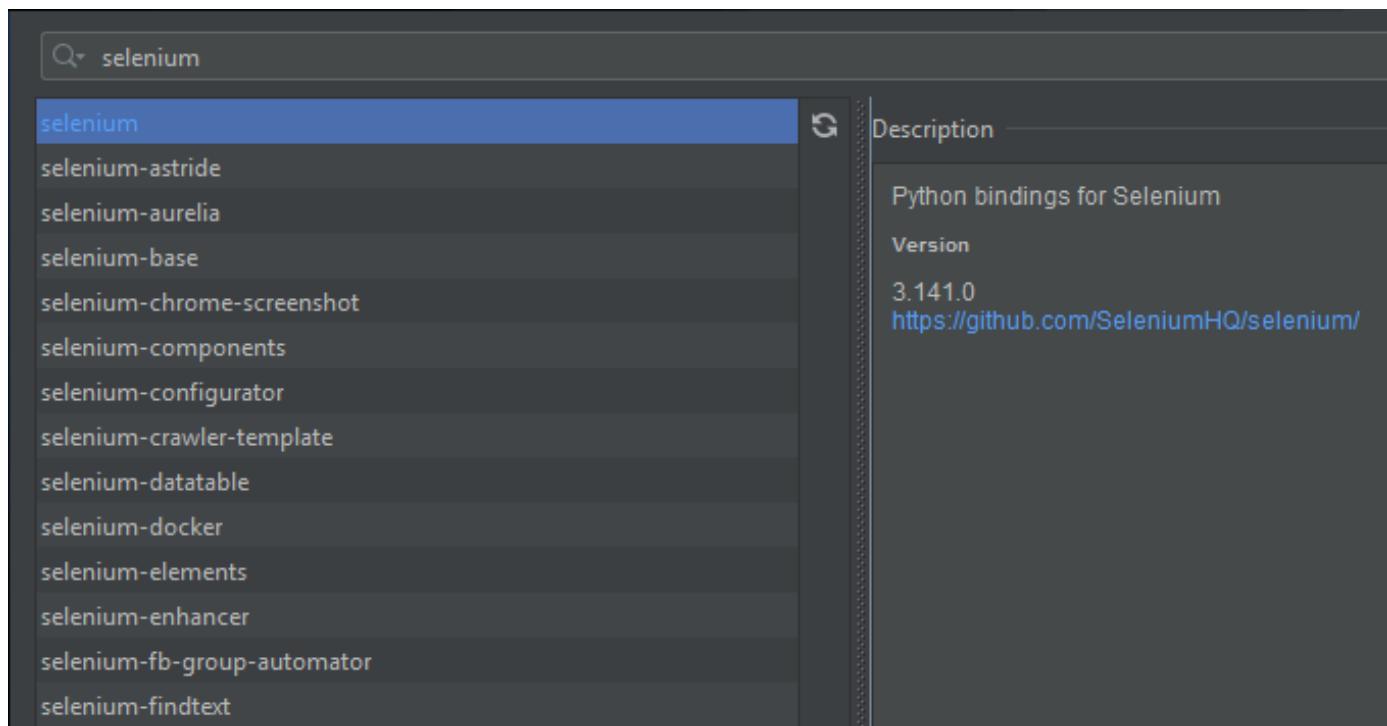
TARİH <i>Date</i>	20.06.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	Selenium (<i>Installation, Setting up environment and etc.</i>)

Day 5 – 20.06.2023

Apart from Python and PyCharm, we also installed other essential libraries and packages that are commonly used in RPA development. These packages, such as "Selenium" for web automation and "UiPath" for robotic process automation, enabled us to integrate various functionalities and extend the capabilities of our bots. The process of installing these libraries involved using Python's package manager, "pip," which streamlined the installation of dependencies. Selenium is an open-source automation testing framework widely used for web application testing. It allows us to simulate user interactions with web elements, such as clicking buttons, filling out forms, and navigating through web pages. We used Selenium for our bot because it provided the necessary tools to automate web-based processes, making it ideal for building efficient and reliable web automation solutions. With its robust functionality and support for multiple programming languages, Selenium enabled us to create dynamic and versatile bots that could perform tasks on various web applications with ease. Step by step Selenium installation:

1. **Run PyCharm:** open Start Menu, type “pycharm” and press Enter. Go with default settings if you asked.

When PyCharm is done loading click on “Create New Project”. Give a name to your project and click on “Create” button.



GÜNLÜK RAPOR

Diary

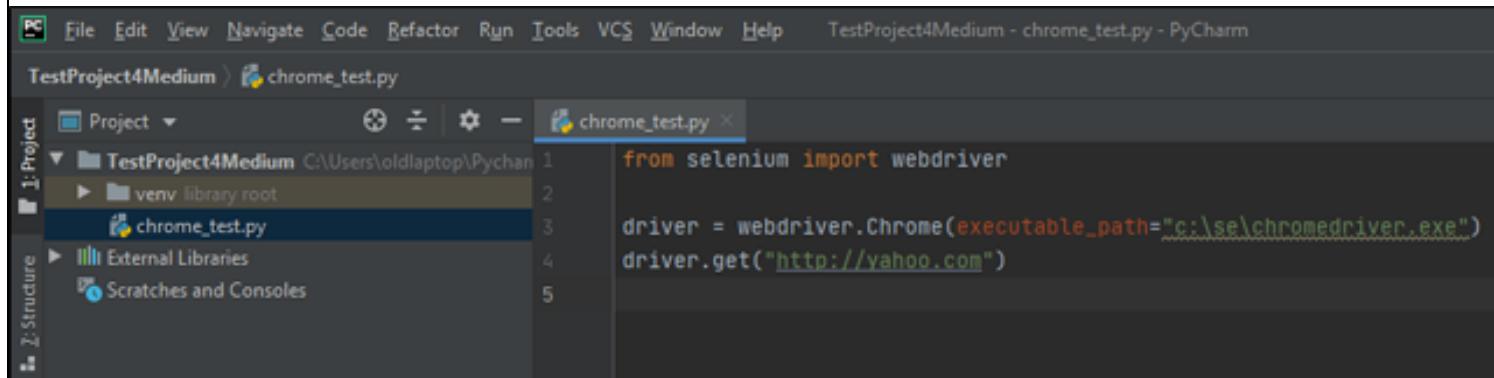
TARİH <i>Date</i>	20.06.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	Selenium (<i>Installation, Testing</i>)

Day 5 – 20.06.2023 – Part II

Now let's add the selenium package to our PyCharm project. Click "File", then "Settings". In the Setting window choose your Project and click on "Project Interpreter". After that click on "plus" icon on the right, type "selenium" into the search field. Choose "selenium" from the results list and click "Install Package" button. Wait until the package is installed, you'll see a message when it's ready.

2. Testing Selenium with Chrome and Firefox

First make sure that Chrome and Firefox are both updated to the last version.



```
File Edit View Navigate Code Refactor Run Tools VCS Window Help TestProject4Medium - chrome_test.py - PyCharm

TestProject4Medium > chrome_test.py

1: Project     chrome_test.py
  TestProject4Medium C:\Users\oldlaptop\Pycharm
    venv library root
      chrome_test.py
  External Libraries
  Scratches and Consoles

from selenium import webdriver
driver = webdriver.Chrome(executable_path="c:\se\chromedriver.exe")
driver.get("http://yahoo.com")
```

In PyCharm right click your project, select "New" and click on "Python File". Enter a name for the file and hit Enter. Paste the code from below, just edit the path to the Chrome Driver file. Open context menu (right click) and click on "Run". Selenium should make Chrome browser open "yahoo.com" site.

```
“ from selenium import webdriver
driver = webdriver.Chrome(executable_path="c:\se\chromedriver.exe")
driver.get("http://yahoo.com") “
```

By doing these steps, I integrated Selenium to my local environment in order to run our Project in my own device.

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GÜNLÜK RAPOR

Diary

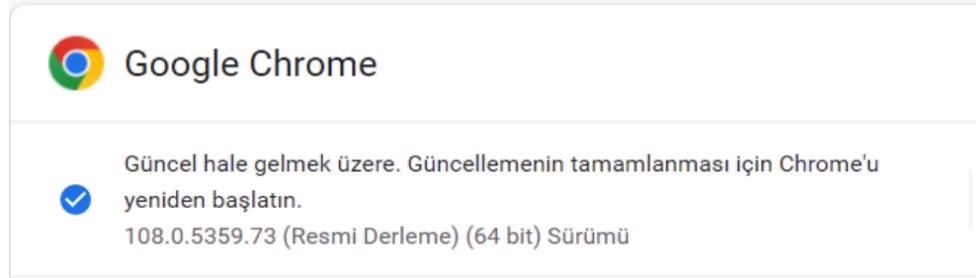
TARİH <i>Date</i>	21.06.2023
BÖLÜM <i>Department</i>	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ <i>Work Done</i>	NodeRunner.exe Installation

Day 6 – 21.06.2023

As an intern in the RPA development team at Rest Software & Consultancy, I learned about the significance of noderunner.exe in our RPA projects. Noderunner.exe is a crucial component in RPA development, especially when using automation tools like UiPath. It is responsible for executing custom workflows and activities written in JavaScript within UiPath workflows. This integration allows us to leverage the power of JavaScript, a versatile scripting language, to perform complex operations and access external libraries, expanding the capabilities of our RPA bots. Noderunner.exe's usage enables seamless integration between UiPath and JavaScript, enhancing the efficiency and flexibility of our automation solutions. Understanding its role and capabilities has been essential in optimizing our RPA projects, making noderunner.exe a valuable tool in our automation toolkit.

NodeRunner.exe Installation

1. Users folder has M folder. Inside this folder there are two files named Java_Node_Runner and ChromeDrivers.
2. Users must add Java_Node_Runner folder to their local.
3. The Chrome browser opens and they click on the help section, go to about google chrome and learn the latest updated versions. The important thing. Look at the first three numbers. Those who have which version will pull the exe of that version.



4. After learning the current Google Chrome version, users must add the chromedriver, which is in the rar file, into Java_Node_Runner folder. Rar file names are chrome version.

Ad	Değiştirme tarihi	Tür	Boyut
chromedriver.exe	28.11.2022 20:35	Uygulama	12.069 KB
cmdNode.log	7.12.2022 22:34	Metin Belgesi	0 KB
NodeRunner.exe	7.12.2022 22:29	Uygulama	34.522 KB
selenium-server-4.5.3.jar	1.11.2022 17:02	Executable Jar File	24.414 KB

Java Node Runner folder

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Diary

TARİH <i>Date</i>	21.06.2023
BÖLÜM <i>Department</i>	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ <i>Work Done</i>	NodeRunner.exe Installation

Day 6 – 21.06.2023 – Part II

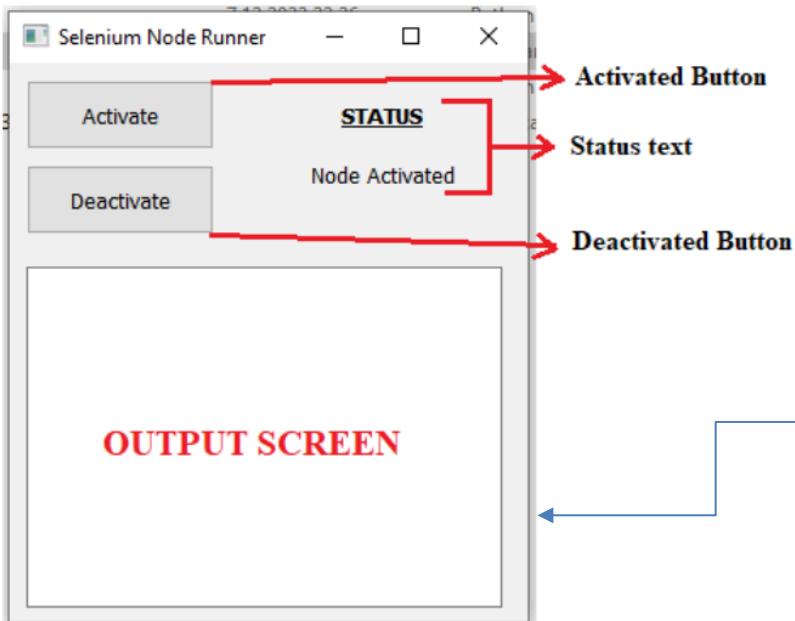
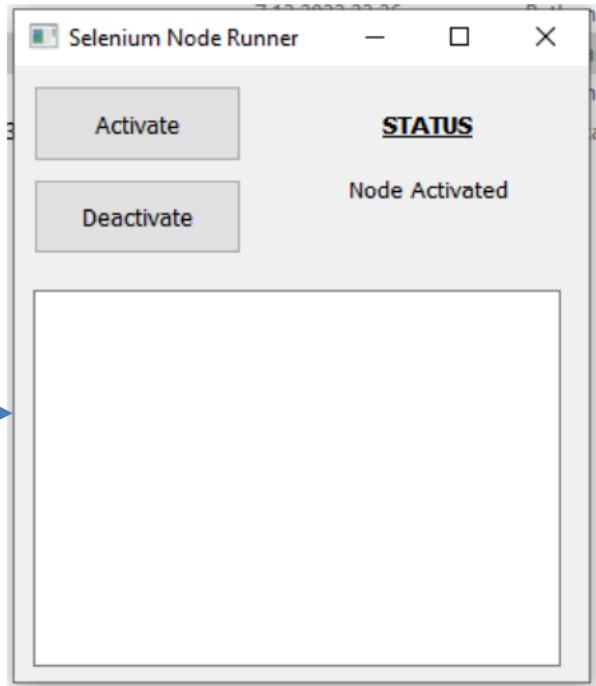
Ad	Değiştirme tarihi	Tür	Boyut
105.zip	7.12.2022 10:35	WinRAR ZIP arşivi	6.839 KB
106.zip	7.12.2022 10:34	WinRAR ZIP arşivi	6.442 KB
107.zip	7.12.2022 10:34	WinRAR ZIP arşivi	6.618 KB
108.zip	7.12.2022 10:34	WinRAR ZIP arşivi	6.743 KB
109.zip	7.12.2022 10:34	WinRAR ZIP arşivi	6.952 KB

ChromeDriver Folder in Windows Local Machine

chromedrivers folder

5. Now, users can start the NodeRunner.exe and using Nexus Bot

6. NodeRunner.exe contains two button named are Activate and Deactivate, information text with the title Status and Output Screen. Activate Button is used to start the program and Deactivate Button used to stop the program. Status title gives an information about state the program. Users can see the program outputs in the Output Screen.



NodeRunner.exe

7. When the exe start, Node activated. Users should wait a short time for the program to be active.

NodeRunner.exe

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GÜNLÜK RAPOR

Diary

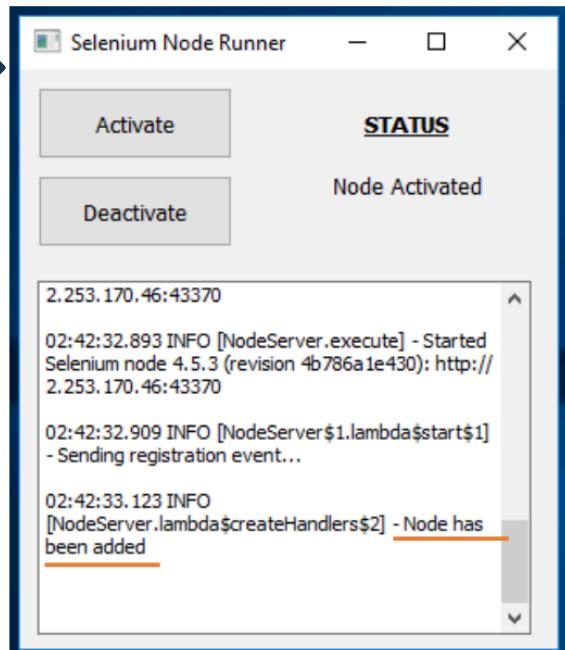
TARİH Date	21.06.2023
BÖLÜM Department	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ Work Done	NodeRunner.exe Testing

Day 6 – 21.06.2023 – Part III

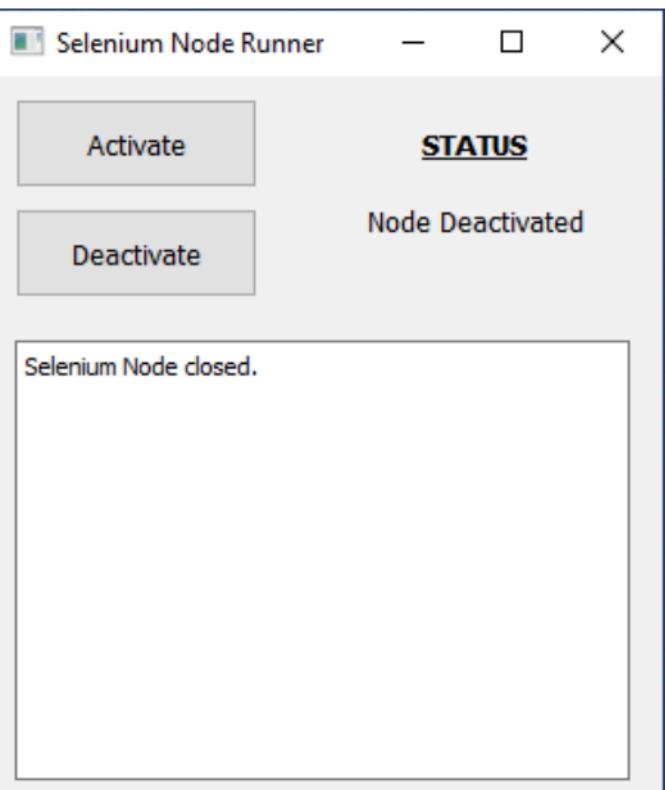


8. Users can understand that the program has been activated when they see the "Node has Been added" in Output Screen.

9. Users can end the process at any time by pressing the Deactivated Button. Or can start the process at any time by pressing the Activated Button.



Node has been added



Node closed output

10. When users press Deactivated Button, users can see “Selenium Node closed.” text on the Output Screen

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GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	22.06.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	Getting Familiar with our partner firms - DHL

Day 7 – 22.06.2023

DHL is a renowned international logistics company known for its expertise in express mail and logistics services. As an intern at Rest Software, I have come to understand the significance of our partnership with DHL and the vital role they play in our firm's success.



DHL's extensive global network and reliable transportation services make them a crucial partner for our firm. Through this partnership, we gain access to DHL's efficient delivery and shipping solutions, ensuring seamless and timely distribution of our products and services to clients worldwide. Their expertise in handling complex logistics challenges ensures that our customers receive their orders promptly, enhancing customer satisfaction and loyalty. Moreover, DHL's commitment to innovation aligns perfectly with Rest Software's vision of delivering innovative solutions to our clients. Collaborating with DHL allows us to leverage their advanced technologies and industry-leading practices, enhancing the efficiency and effectiveness of our logistics operations. This partnership also opens doors to exploring new opportunities for joint projects and mutual growth, expanding our reach in the market and fostering a strong business relationship.

From an intern's perspective, working with DHL has provided valuable insights into the logistics industry and the significance of robust partnerships in achieving business goals. Witnessing firsthand how a global logistics giant like DHL operates and delivers excellence in its services has been an inspiring and educational experience. As an intern, being part of the collaborative efforts between Rest Software and DHL has deepened my understanding of the importance of strategic partnerships and the value they bring to the success of an organization. Creating the Nexus Bot at Rest Software was an exciting and rewarding experience as an RPA Development Intern. The primary objective of this bot was to eliminate the need for manual data entry of packing list numbers, streamlining the logistics process and increasing overall efficiency. By leveraging Robotic Process Automation (RPA) with UiPath, we developed a robust and dynamic solution that integrated seamlessly with DHL's systems.

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GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	22.06.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	Task Schema for "Nexus Bot"

Day 7 – 22.06.2023 – Part II

We collaborated with DHL's (our partner) shipping team and contacted their IT department. Mrs.Burcu was the responsible IT specialist. Since we were working with them, we created some task schema and existing issues on our "Nexus Bot". With the help of these requests and issues, we will be able to solve problems and solve bugs on our code, develop the ongoing Project.

1	Column names in Excel will organize the check match, Ms. Burcu will be the admin.
2	"Can the reservation number be more than one or more than one SO number? ", Mr. Ufuk will check. (normally by product number)
3	Bulk reservation number or PO number can be entered, however, these must be specified one by one in the packing lists
4	Unable to read the first data on the packing list page, one space is left for this, a pop-up may appear for missing fields to skip information.
5	When Mrs. Burcu's sails pop-up, if the boat stops and she continues to wonder whether it should or not. When the pop-up appears, a screen with information can be placed in the background. However, the number of pop-ups should be known.
6	Mrs. Burcu's about pop-ups will meet with their side and return to us for a clear solution to the problem.
7	Burcu ladies about pop-ups will meet with their side and return to us for a clear solution to the problem.

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GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	23.06.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	Bitbucket Learning – Git Commits

Day 8 – 23.06.2023

Today, I had the opportunity to familiarize myself with Bitbucket and Git Commits, essential tools for version control and collaborative software development.

- Bitbucket & Git Commits: Overview -

Bitbucket is a web-based platform that provides a centralized location for hosting and managing code repositories using Git, a distributed version control system. Git Commits are snapshots of code changes, allowing developers to keep track of the modifications made to the codebase and enabling collaboration among team members.

- Utilizing Bitbucket & Git Commits in RPA Project

Throughout the RPA project, I actively utilized Bitbucket and Git Commits to manage the codebase and facilitate effective collaboration within our development team. Below are some examples of how I employed Git Commits during the project:

1. Adding a New Feature

To add a new feature to the RPA bot's functionality, I used the following Git commands:

```
git add main.py
git commit -m "Added new feature to handle customer data"
```

By staging the changes in the **main.py** file and committing them with a descriptive message, I documented the addition of the new feature to the codebase.

2. Fixing a Bug

When identifying and resolving a bug in the RPA bot, I followed these Git commands:

```
git add bug_fix.py
git commit -m "Fixed bug causing incorrect data extraction"
```

By staging the changes in the **bug_fix.py** file and committing the bug fix with a clear explanation, I provided a detailed record of the issue resolution.

3. Refactoring Code

For code refactoring to enhance readability and maintainability, I executed the following Git commands:

```
git add refactor_utils.py
git commit -m "Refactored utility functions for better readability"
```

GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	23.06.2023
BÖLÜM <i>Department</i>	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ <i>Work Done</i>	Git Commits Usage with examples

Day 8 – 23.06.2023 – Part II

Staging the changes in the **refactor_utils.py** file and committing the refactoring with an appropriate message ensured efficient code maintenance.

4. Updating Documentation

To update the project documentation, I followed these Git commands:

```
git add README.md
git commit -m "Updated project documentation with installation instructions"
```

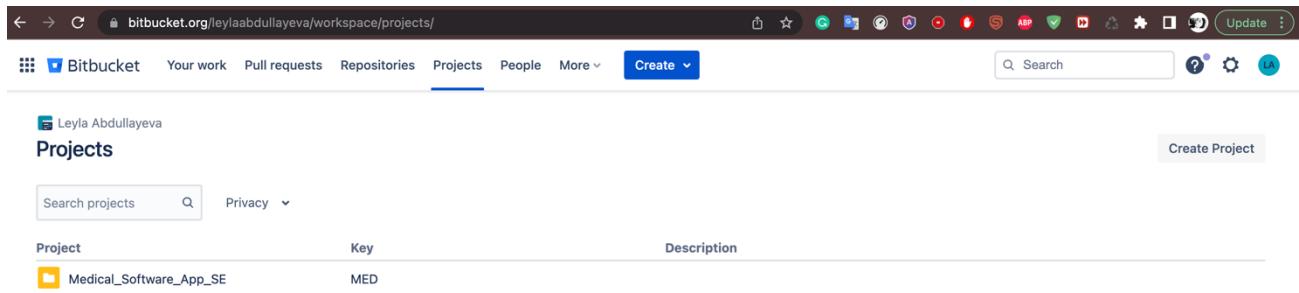
By staging the changes in the **README.md** file and committing the documentation update with a descriptive message, I maintained clear and up-to-date project documentation.

5. Implementing UI Improvements

When implementing UI improvements for better user interactions, I used the following Git commands:

```
git add ui.py
git commit -m "Enhanced user interface for smoother user interactions"
```

Staging the changes in the **ui.py** file and committing the UI improvements with a concise description ensured seamless collaboration with the team. Bitbucket and Git Commits played a pivotal role in our RPA project, enabling version control and seamless collaboration among team members. By leveraging these tools, we could efficiently manage the codebase, track changes, and review each other's contributions. The systematic use of Git Commits allowed for better code maintenance and facilitated a cohesive development process.



Bitbucket



GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	26.06.2023
BÖLÜM <i>Department</i>	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ <i>Work Done</i>	I – 29 Task for “Nexus Bot”

Day 9 – 26.06.2023

Today, I integrated my work to our team BitBucket via PyCharm. I fixed some bugs and errors on existing code of our Project and I've added some functions and pushed it by using Git.

The screenshot shows the PyCharm IDE interface with the following details:

- Project Bar:** Shows the project name "nexus_rpa" and the file "main.py" is open.
- Toolbars:** Includes "File", "Edit", "Run", "View", "Tools", "Help".
- Status Bar:** Shows "Git: 9 221 116", "Event Log", and "Packages installed successfully: Installed packages: 'pyautogui' (14.07.2023 22:23)".

The code editor displays the following Python script:

```
import os
from django.conf import settings
from pyautogui import sleep
from selenium import webdriver
import time
from selenium.webdriver.common.by import By
from seleniumcodes.nexus_site_informations import USERNAME, PASSWORD, LOGIN_URL, PACKING_LIST_URL
import logging
from webdriver_manager.chrome import ChromeDriverManager
from selenium.webdriver.support.ui import Select

logger = logging.getLogger("nexus")

class NexusAutomationUtils:
    def __init__(self):
        if os.name == 'nt':
            self.browser = webdriver.Chrome(ChromeDriverManager().install())
        else:
            chrome_options = webdriver.ChromeOptions()
            chrome_options.add_argument('--headless')
            chrome_options.add_argument('--no-sandbox')
            chrome_options.add_argument('--disable-dev-shm-usage')
            chrome_options.add_argument('window-size=1920x1480')
            self.browser = webdriver.Chrome(ChromeDriverManager().install())
        self.browser.maximize_window()
        self.browser.implicitly_wait(20)

    @staticmethod
    def __get_driver_path():
        return os.path.join(settings.BASE_DIR, 'seleniumcodes', 'chromedriver.exe')

class Nexus(NexusAutomationUtils):
    def __init__(self, data):
        NexusAutomationUtils.__init__(self)
        self.data = data

NexusAutomationUtils > __init__()
```

A large blue arrow points from the bottom right towards the code editor area.

I fixed some issues and rewrite some parts of our code. You can see the screenshot from my local machine's PyCharm environment.

GÜNLÜK RAPOR

Diary

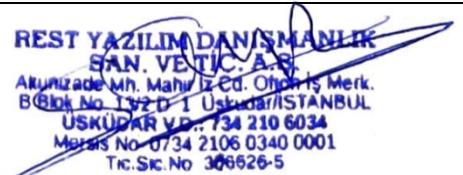
Day 9 – 26.06.2023 – Part II

The screenshot shows the PyCharm IDE interface. The left sidebar displays a project structure for 'nexus_rpa' with several files and folders like 'core', 'migrations', 'seleniumcodes', 'static', 'templates', and 'venv'. The 'main.py' file is open in the center editor, showing Python code for a 'Nexus' class. The right side features a 'Git Branches' tool window titled 'Git Branches in nexus_rpa' which lists local branches ('feature/DNR-I29', 'master') and remote branches ('origin/master', 'origin/feature/DNR-I29', etc.). The status bar at the bottom indicates the code was last saved on 14.07.2023 at 22:23.

My branch was called I29, I passed it to my company's BitBucket with using Git Commits.

This screenshot shows the PyCharm IDE during a debugging session. The code in 'main.py' is being executed, specifically the 'getPackingList()' method. The console output shows the command used to start the debugger and the message 'Connected to pydev debugger (build 213.6777.50)'. The status bar at the bottom shows the code was last saved on 14.07.2023 at 22:23. The event log at the bottom right indicates the commit was pushed to 'feature/DNR-I29'.

I ran my code and I saw that it's working properly.



GÜNLÜK RAPOR

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TARİH <i>Date</i>	27.06.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	"Clean Code" Meeting

Day 10 – 27.06.2023

Today, we conducted a series of informative meetings focused on "Clean Code" principles by Robert C. Martin. These meetings introduced us to the essential concepts of writing maintainable, efficient, and readable code that aligns with Agile development practices. As an intern, I found these sessions immensely valuable as they emphasized the importance of code quality and its impact on the overall software development process.

The "Clean Code" handbook provided practical guidelines and best practices for writing clean and organized code. We learned about the significance of meaningful variable and function names, the avoidance of code duplication, and the importance of writing small, cohesive functions. The concept of "single responsibility" and creating classes with clear and specific functionalities was particularly insightful.

Implementing these "Clean Code" principles into our work was an enriching experience. During coding sessions, I made a conscious effort to adhere to the guidelines, ensuring that my code was easily understandable and maintainable. Regular code reviews and pair programming exercises allowed me to receive feedback from experienced developers and understand how to further improve my coding practices.

Moreover, the Agile development handbook provided additional insights into Agile methodologies, emphasizing iterative development, continuous integration, and frequent testing. The Agile approach enabled our team to adapt to changing requirements, respond to feedback, and deliver incremental updates to our RPA project more effectively.

By incorporating "Clean Code" practices and Agile methodologies into our work, our team experienced enhanced collaboration and productivity. Writing clean and organized code allowed us to minimize technical debt and reduce the chances of introducing errors. The Agile development approach fostered a collaborative and flexible environment, encouraging open communication and a strong sense of ownership among team members. As an intern, being exposed to these development methodologies and principles has been instrumental in my growth as a software developer. Learning to write clean and maintainable code not only improved my coding skills but also contributed to a more cohesive and efficient development process. Embracing Agile methodologies empowered me to be adaptable and responsive to project requirements, ensuring a successful and iterative development journey. These experiences have been invaluable and have prepared me to continue my career in software development with a strong foundation in "Clean Code" practices and Agile development methodologies.

GÜNLÜK RAPOR

Diary

TARİH Date	27.06.2023
BÖLÜM Department	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ Work Done	Fixing issues on “Nexus Bot”

Day 10 – 27.06.2023 – Part II

After team meeting, we decided to fix some issues according to our customer feedback. I've created detailed document about our errors on “Nexus”.

#	Country (or dependency)	Population	Yearly Change	Net Change	Density (P/Km²)	Area (Km²)	Migrant (net)
1	Honduras	9,904,607	1.63 %	158,490	89	111,890	-6,800
2	United Arab Emirates	9,890,402	1.23 %	119,873	118	83,600	40,000
3	Djibouti	988,000	1.48 %	14,440	43	23,180	900
4	Saint Barthélemy	9,877	0.30 %	30	470	21	
5	Seychelles	98,347	0.62 %	608	214	460	-200
6	Antigua and Barbuda	97,929	0.84 %	811	223	440	0
7	Vietnam	97,338,579	0.91 %	876,473	314	310,070	-80,000
8	Hungary	9,660,351	-0.25 %	-24,328	107	90,530	6,000
9	Tajikistan	9,537,645	2.32 %	216,627	68	139,960	-20,000
10	Belarus	9,449,323	-0.03 %	-3,088	47	202,910	8,730
11	Austria	9,006,398	0.57 %	51,296	109	82,409	65,000

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Got it!

We want to pull the codes of any table on the internet and the data marked with selenium from there.

```

10    values = []
11    for element in elements:
12        population = element.find_elements(by=By.
13                                         TAG_NAME, value="td") [2]
14        print(population.text)

```

PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

```

114,963,588
11,326,616
11,239
110,340
10,847,910
10,706,981
105,695
10,426,054
10,203,334
10,139,177
0

```

With these codes, we reach the relevant data in the table.



GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	14.06.2023
BÖLÜM <i>Department</i>	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ <i>Work Done</i>	Acquaintance with the office, workplace, system, working structure.

Day 10 – 14.06.2023 – Part III

	Order Number	Line Item Id	Quantity	Unit Price	Size	Style Code	Style	Earliest Ex-Factory Date	Latest Ex-Factory Date	Open Not Shipped (leg-3)	Shipping Order Qty	Cartons	Weight
<input type="checkbox"/>	631226	100	2044765021	78.59 x 92.98				08/17/2022	08/31/2022	48 ea	48 ea		kg
<input type="checkbox"/>	631226	200	2044765022					08/17/2022	08/31/2022	240 ea	240 ea		kg
<input type="checkbox"/>	631226	300	2044765023					08/17/2022	08/31/2022	336 ea	336 ea		kg
<input type="checkbox"/>	631226	400	2044765024					08/17/2022	08/31/2022	288 ea	288 ea		kg
<input type="checkbox"/>	631226	500	2044765025					08/17/2022	08/31/2022	192 ea	192 ea		kg
<input type="checkbox"/>	631226	600	2044765032					08/17/2022	08/31/2022	144 ea	144 ea		

We would like to access relevant data so that we can control the Nexus site. Unlike the table on other sites, The line edges of the table are also coded. I did not understand that the hidden blocks were placed in between.

```
110     CLASS_NAME, value="tablerow0")
111     for element in elements:
112         num=element.find_elements(by=By.
113                                     TAG_NAME, value="td")[0]
114         print(num.text) ←
115
116
117
118
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
num=element.find_elements(by=By.TAG_NAME, value="td")[0]
IndexError: list index out of range
IndexError: list index out of range
IndexError: list index out of range
IndexError: list index out of range
```

Even though I wrote the same code and even called the zeroth Index, it doesn't work here. There is no precedent error on the Internet, data from the table pull operations are done as before. In addition, we do not use Xpath in these codes, as the Xpath shifts when a separate item is added, but if a line is drawn for the row in the table on the site. Even it is done with the 'td' tag, so the index of the 'td' that we are going to shoot (which we can't pull at the moment) changes.

GÜNLÜK RAPOR

Diary

TARİH Date	03.07.2023
BÖLÜM Department	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ Work Done	Analyzing Logistics Documents

Day 11 – 03.07.2023

Today, I took on the task of analyzing various logistics documents, including packing lists, invoices, and ATR (Authorized Transit Declaration) forms. This analysis was a crucial step in preparing for the integration of document processing capabilities into our RPA bot. I carefully examined the structure and content of each document type, identifying key data points such as product names, quantities, shipping details, and relevant identifiers. Based on my analysis, I devised a plan to integrate this knowledge into our RPA bot's data extraction and processing capabilities. Using Python's libraries for text processing and pattern matching, I implemented custom algorithms to extract specific information from the documents with high accuracy. For instance, I used regular expressions to locate and capture shipping container numbers and utilized natural language processing techniques to identify product names and quantities from the text. To ensure the bot's flexibility in handling various document formats, I designed a dynamic parsing mechanism that could adapt to different layouts and variations in the documents. This approach involved creating templates and rules that could be adjusted as needed, enabling the bot to extract data accurately from different versions of the documents.

The integration of my analysis and knowledge into the RPA bot allowed us to automate the data extraction process from logistics documents efficiently. By leveraging the bot's capabilities, Rest Software could now process large volumes of logistics documents accurately and in a fraction of the time it would take to manually handle them. This automation significantly improved our operational efficiency, reduced the risk of errors, and provided a seamless experience for our clients.

Overall, the analysis of logistics documents and the subsequent integration of my knowledge into the RPA bot showcased the practical application of my skills in data processing and automation. This experience not only solidified my understanding of document processing but also highlighted the power of RPA in transforming complex business processes into streamlined and error-free operations. As we continue to refine and expand the bot's capabilities, I am confident that it will have a significant and positive impact on our logistics operations and contribute to the overall success of Rest Software's RPA initiatives.

Example Invoice Document in Logistics

SELLER		COMMERCIAL INVOICE as of Fri Apr 01 09:00:33 UTC 2022						
Wuxi Jinmao Hong Kong 5301 53/F The Center 99 Queen's RD Hong Kong, 999999 CHINA		Invoice Number 22JPGEEA0810013						
BUYER	SELLER	Invoice Issue Date 2022-04-01						
B U Y E R	S E L L E R							
B U Y E R	Damco Customs Services Inc 133-33 Brookville Blvd Cross Island Plaza, Suite #308 Rosedale, NY, 11422 UNITED STATES	L O D I V S T R E C H I C E R	DHL International Supply Chain 1 Kalisa Way, Suite 112 Paramus, NJ, 07652 UNITED STATES					
C U N G N E R	The Children's Place Services Co.,LLC 500 Plaza Drive Secaucus, NJ, 07094 UNITED STATES	C U N G N E R	JP Garment Ethiopia PLC Shed 46 Hawassa Industrial Park Hawassa, 99999 ETHIOPIA Phone: 86510-8279 7906					
C U N G N E R	Damco Customs Services Inc 133-33 Brookville Blvd Cross Island Plaza, Suite #308 Rosedale, NY, 11422 UNITED STATES	C U N G N E R						
THE CHILDRENS PLACE ECOM 180 S T 1377 AIRPORT ROAD WEST H O FORT PAYNE, AL, 35968 P 1 UNITED STATES	ALABAMA PLACE DC S T 1377 AIRPORT ROAD WEST H O FORT PAYNE, AL, 35968 P 2 UNITED STATES	Invoice Total Amount: \$83,043.68						
PO Numbers 631226, 631228, 631236, 631512, 634143, 634163, 634285, 645570, 646539, 646838	Vendor # 7000480	Freight Payment Collect						
Ex-Factory Date 2022-04-01	Expected Shipment Date 2022-04-10	Incoterm FOB - Shipping Point						
Shipment Method Ocean	Estimated Payment Date 75 Days from User Specified Date	Outer Packing Method Carton						
Number Of Packing Units 554	Country of Origin ETHIOPIA	Total Gross Weight 4,182.74 KILOGRAMS						
Total Net Weight 3,905.74 KILOGRAMS	Total Volume 23.539 CUBIC METERS							
PO Number	Line #	Article #	Short Desc	Quantity	PrePack QTY	Unit Price (USD)	PrePack Price	Cost (USD)
631226	100	2044765021	U SS OXFORD, LTBLUOXFRD, XS (4)	48	N/A	3.03		145.44
Country of Origin:	ETHIOPIA	Destination:	THE CHILDRENS PLACE ECOM 180					
Size:	XS (4)	Color Description:	LTBLUOXFRD					
Channel:	WHOLESALE	Ea per inner pack:	1					
Total Net Weight:	5.04 KG	Total Gross Weight:	5.54 KG					
CustomsDescription1:	BOY : 100.0% COTTON COMBED OXFORD 40 +40X3/2 4.40OZ YARN DYE WOVEN ; SHIRT ; HTS#: F035202061							

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Tic. Sic. No: 306626-5

GÜNLÜK RAPOR

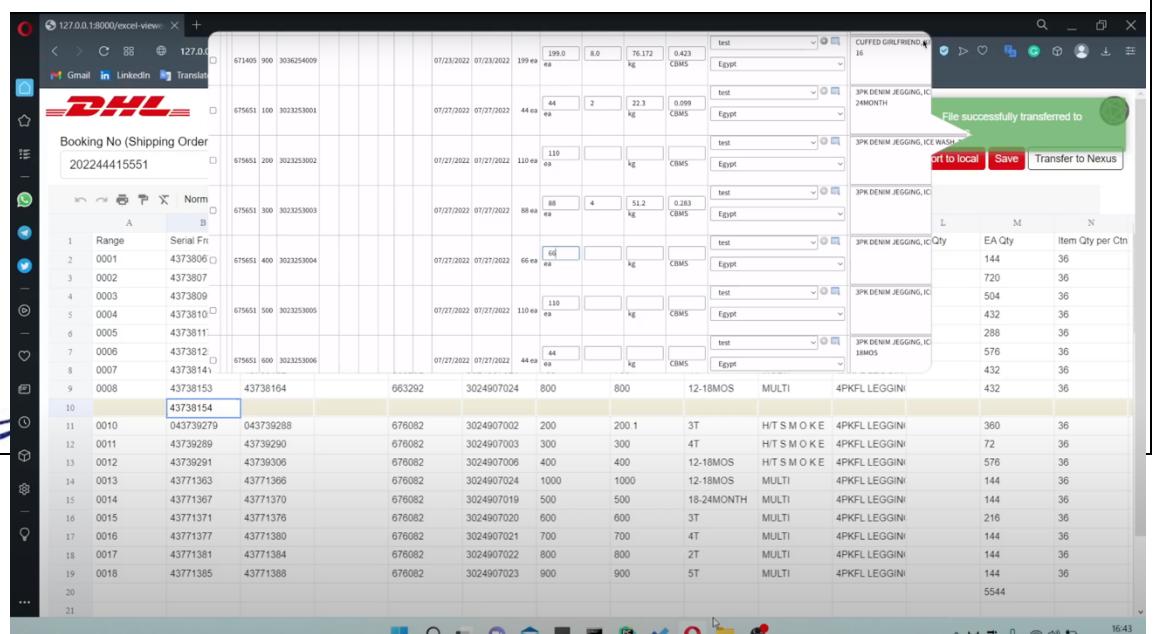
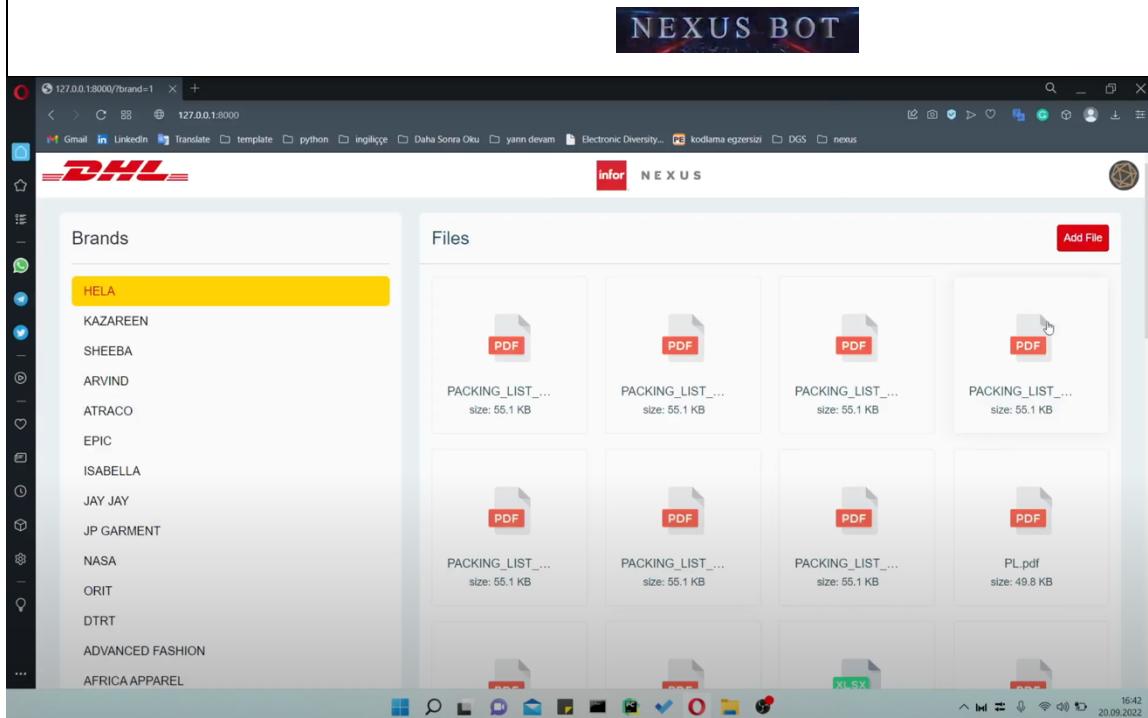
Diary

TARİH <i>Date</i>	04.07.2023
BÖLÜM <i>Department</i>	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ <i>Work Done</i>	“Nexus Bot” Demo

Day 12 – 04.07.2023

Today, we created Demo video of our product in order to sell this RPA bot to our customer and partner which is DHL. Here's some images from the Demo video that me and my other colleagues have created:

Demo video Link:https://drive.google.com/file/d/1LT6okswCYHYXtJvvWGE3JAIVVQa_ddDU/view?usp=sharing



GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	04.07.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	Deployment Plan - "Nexus Bot"

Day 12 – 04.07.2023 – Part II

The deployment plan for our RPA bot, Nexus RPA, involves leveraging the capabilities of Django, a powerful web framework, to ensure a seamless and efficient deployment process. Firstly, we will set up a production environment using a web server, such as Apache or Nginx, to host our Django application. The Django application will serve as the interface for interacting with Nexus RPA. We will utilize Django's built-in features for security and user authentication to ensure that only authorized users can access the bot's functionalities. For data storage and retrieval, we will integrate Nexus RPA with a robust and scalable database system like PostgreSQL or MySQL. This will allow us to manage and store data generated by the bot securely. Additionally, we will implement caching mechanisms to optimize the bot's performance and reduce response times. To facilitate automatic updates and smooth maintenance, we will employ containerization using technologies like Docker. This will enable us to package the entire application, along with all its dependencies, into containers, ensuring consistent behavior across different environments. Furthermore, we will set up continuous integration and continuous deployment (CI/CD) pipelines to automate the deployment process. CI/CD pipelines will enable us to automatically build, test, and deploy new updates to Nexus RPA, ensuring that the bot is always up-to-date with the latest features and bug fixes. As part of the deployment plan, we will conduct thorough testing, including functional, load, and security testing, to ensure the reliability and stability of Nexus RPA in a production environment. We will also closely monitor the bot's performance, using tools like Prometheus and Grafana, to identify and resolve any performance bottlenecks. Finally, we will create comprehensive documentation detailing the deployment process, including step-by-step instructions, configuration settings, and troubleshooting guides. This will ensure that the deployment of Nexus RPA can be easily replicated and maintained by our team and future users.

In conclusion, our deployment plan for Nexus RPA, utilizing Django and best practices in web application deployment, aims to create a robust, scalable, and user-friendly system. By automating the deployment process and implementing effective monitoring and testing strategies, we are confident that Nexus RPA will efficiently and reliably serve our clients' automation needs.



GÜNLÜK RAPOR

Diary

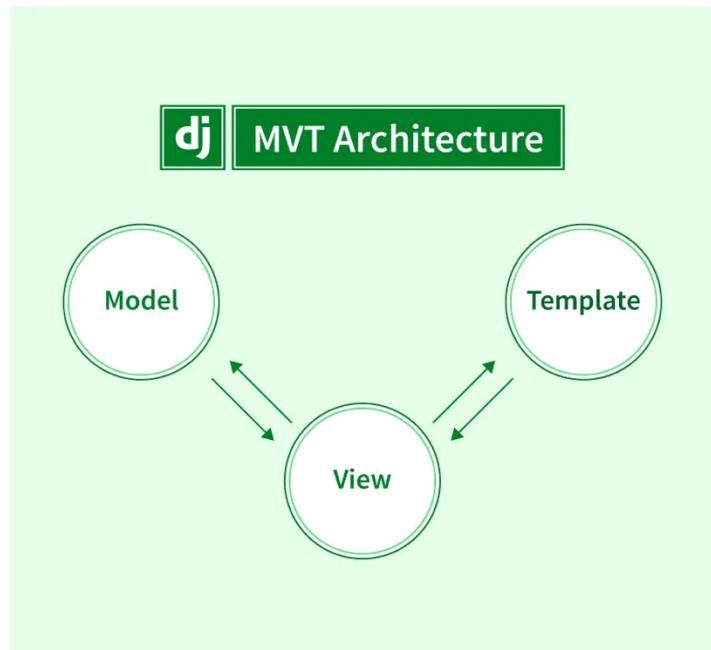
TARİH <i>Date</i>	05.07.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	Django Installation

Day 13 – 05.07.2023

Django is a high-level Python web framework that I installed as a key component for our RPA bot, Nexus RPA. Django provides a robust and efficient environment for developing web applications, making it an ideal choice for creating the interface through which our users can interact with the bot. During the installation process, I utilized Python's package manager, "pip," to install Django and its dependencies, ensuring a seamless integration with our RPA project.

Django's architecture facilitates the rapid development of web applications by promoting the principle of "Don't Repeat Yourself" (DRY). This allows us to create reusable components and maintain a clean and organized codebase. I will use Django's Model-View-Template (MVT) architecture to separate the logic, presentation, and data layers, enabling modular development and easier debugging.

The Django web application will serve as the central interface for initiating and monitoring the activities of Nexus RPA. Users will be able to submit tasks, review progress, and view results through a user-friendly and intuitive web interface. Django's built-in features for user authentication and security will ensure that only authorized users can access and interact with the bot.



Furthermore, Django's support for database integration will allow us to efficiently manage and store data related to the RPA tasks, ensuring data integrity and persistence. I will leverage Django's ORM (Object-Relational Mapping) to interact with the database, simplifying data handling and minimizing direct SQL queries.

In conclusion, Django's installation and integration into Nexus RPA will enable us to create a powerful, secure, and user-friendly web application for managing and monitoring RPA tasks. Its flexibility and scalability make it an ideal choice for our bot, providing a solid foundation for the seamless deployment and efficient execution of Nexus RPA.

GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	06.07.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	Deployment With Django

Day 14 – 06.07.2023

First of all, as an extra for the Django project that I tried and published in local. We need to set web.config files. One of the web.config files here is where we keep our static files. The other one in the folder needs to be outside the public file of the project. We create the web.config file in the Static Folder. In the picture below, we fill it as you can see.

```
<?xml version="1.0" encoding="UTF-8"?>
<configuration>
    <system.webServer>
        <handlers>
            <clear />

            <add name="StaticFile"
                path="*"
                verb="*"
                modules="StaticFileModule"
                resourceType="File"
                requireAccess="Read" />
        </handlers>
    </system.webServer>
</configuration>
```

As an extra, a web.config file is outside the general file of the project.

we create. Fill it as shown in the picture below.

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
    <system.webServer>
        <handlers accessPolicy="Read, Script">
            <add name="Python FastCGI" path="*" verb="*" modules="FastCgiModule" scriptProcessor="C:\Python310\python.exe|C:\Python310\lib\site-packages\wfastcgi.py" resourceType="Unspecified" requireAccess="Script" />
        </handlers>
    </system.webServer>

    <appSettings>
        <add key="PYTHONPATH" value="C:\inetpub\wwwroot\MDT_project" />
        <add key="WSGI_HANDLER" value="MDT_project.wsgi.application" />
        <add key="DJANGO_SETTINGS_MODULE" value="MDT_project.settings" />
    </appSettings>
</configuration>
```



GÜNLÜK RAPOR

Diary

TARİH Date	06.07.2023
BÖLÜM Department	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ Work Done	Deployment With Django - IIS

Day 14 – 06.07.2023 – Part II

You can get the ScriptProcessor value with the `wfastcgi-enable` command. After setting the web.configs, we do the operations on the IIS side.

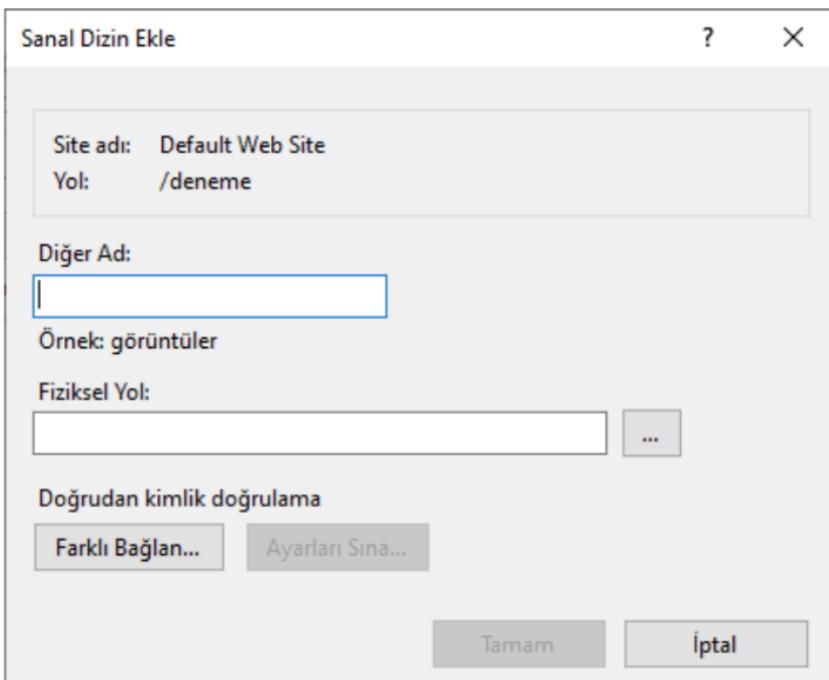
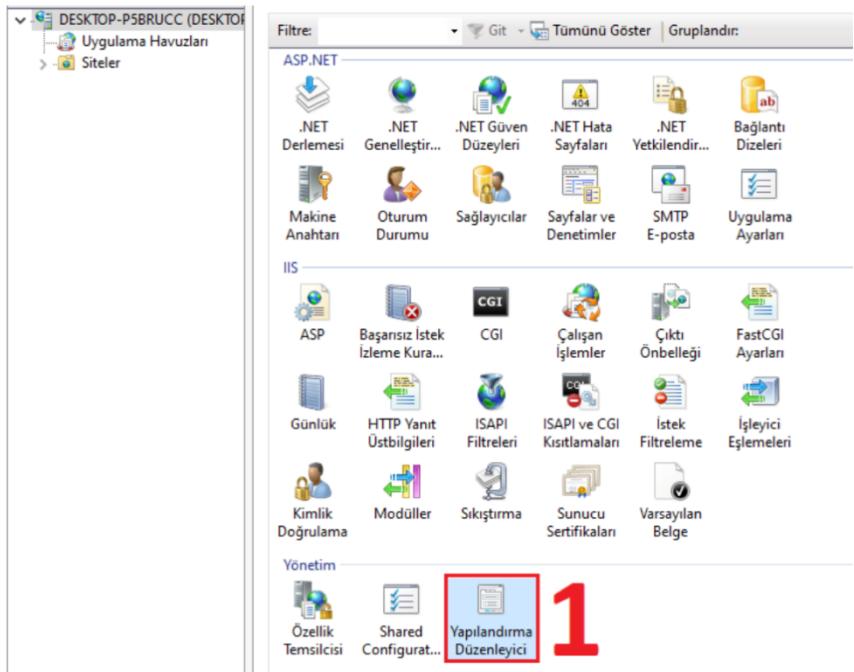
We enter the Configuration Editor and from the Section tab

Select system.webServer -> handlers and select the Section panel on the right.

Click on Lock Section.

Then, on the left, in the Connections section, right-click on the Default Web Site option.

Click on Add Virtual Directory...



We write static in the alias part and as the physical path of our static files Select the folder where it is kept.

Ex:

C:\inetpub\wwwroot\trial\MDT_project\MDT\static

After clicking OK, our static files are also integrated into our system.

is happening. After the process is complete, DEBUG=False in settings.py needs to be done. In addition, all permissions must be given to the folder.

The video link below is the video I watched and stood up before.

<https://www.youtube.com/watch?v=APCQ15YqqQ0>

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GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	07.07.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	Deployment Plan with Django (detailed)

Day 15 – 07.07.2023

****Deployment Plan for Nexus RPA Bot with Django****

The deployment plan for Nexus RPA Bot involves leveraging the Django web framework to create a user-friendly and scalable web application for managing and executing RPA tasks. This plan outlines the steps involved in setting up the production environment, integrating Django with the bot, ensuring security, and automating the deployment process.

- 1. Production Environment Setup -

- Choose a reliable web server, such as Apache or Nginx, to host the Django application. Configure the server to handle incoming requests and serve the application securely over HTTPS.
- Utilize a robust database system like PostgreSQL or MySQL to store data related to RPA tasks. Set up the necessary tables and indexes for efficient data retrieval and management.

- 2. Django Application Integration -

- Create a Django project for Nexus RPA and design the application's structure based on Django's Model-View-Template (MVT) architecture. Separate the logic, presentation, and data layers to ensure a modular and maintainable codebase.

- 3. CI/CD Pipeline Implementation -

- Set up a Continuous Integration and Continuous Deployment (CI/CD) pipeline to automate the deployment process. Use tools like Jenkins or GitLab CI/CD to build, test, and deploy the Django application to the production environment automatically.

- 4. Load Testing and Performance Optimization -

- Conduct load testing to assess the application's performance under various user loads. Identify potential bottlenecks and areas for improvement.

- 5. Monitoring and Maintenance -

- Implement monitoring tools like Prometheus and Grafana to keep track of the application's performance and health. Set up alerts to notify the team of any issues that may arise.

- 6. Documentation -

- Create comprehensive documentation detailing the deployment process, including installation instructions, configuration settings, and troubleshooting guides.
- Document the architecture, design decisions, and integration details to facilitate future updates and maintenance

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GÜNLÜK RAPOR

Diary

TARİH Date	10.07.2023
BÖLÜM Department	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ Work Done	Rest Orange Meeting

Day 16 – 10.07.2023

On the beginning of final week, after deploying our previous product, we started new Project called “Rest Orange”. Rest Orange Development plan is written below:

Rest Orange

Aim:

Taking the data in pdf and turning it into actionable data, mapping and declaration to create. It is possible for the controller to process pdfs in the easiest way possible. provide design PDF editor for it.

Scenario:

The customer representative enters the processes with the export bot and the controller checks it.
it does:

- Work Order comes from customer
- Becomes a customer representative who fulfills the Work Order. Customer representative our product will use
- Customer representative will collect the documents, fill out the declaration and check it.
will send. He will send them all to the rest Orange program
- In the Rest Orange program, a work order, a task, will be created through the API that will meet the API.
- Api will return the test record to the customer representative
- The file must be in the models, then it must be a task
- Customer files will be kept in the queue in the form of requests in the tasks.
- The queue structure will be created and the tests will be numbered and accumulated in the queue structure.
- This numbering will be in order of priority.
- Numbers can be sorted according to the way of transport according to the queue.

- In controllers:

1. will login

This task list, which will be the 2nd task list, will be empty the first time, and you will start work.
When you notify, the tasks will be assigned to the controller.

3. The controller will check the PDF and declaration in the test
4. It will be presented to the customs according to your confirmation

Stages:

1. User interface will be

The second application layer will be

There will be the 3rd domain layer and

4. infrastructure will be

Descriptions:

*Application part will be API

*There will be business logic on the domain side

*Works will be split into two contexts:

The first will be the customer representative and the second will be the controller, and these will communicate

* There will be Infrastructure data Base and logging

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GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	11.07.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	Rest Orange – User Stories.

Day 17 – 11.07.2023

User stories are a fundamental component of the Agile software development methodology. They are short, simple descriptions of a feature or functionality from an end-user's perspective. User stories are used to capture the requirements and needs of the users and serve as a way to communicate effectively between the development team and stakeholders.

As interns working on the Rest Orange project, we will create user stories to outline the various functionalities and features that the PDF editor should have. Each user story will follow a standard format, known as the "As a [role], I want [goal], so that [benefit]" template. This format helps to clearly define the user's role, what they want to achieve, and the benefits they expect.

What is a user story?

From the point of view of the person who will use that characteristic of the product to be developed

Simple sentences written. The purpose of the product's characteristics in the storytelling of items

Simulate your interaction with it as in real life. and product

When implemented, the user easily understood which product feature can be used

It will be. The user and the story that the story benefits is applied correctly

Specific acceptance criteria are expressed together using a standardized template written.

The Template:

As a role(1), I want function(2), [so that purpose](3)

Example of:

As a user, I can use social media to be logged in, so it's easy.

I can enter.

User story details

User stories are vague at the beginning of the project, containing high-level superficial information. not developing

Detailing user stories so that the team can master all the details

It needs. We will use the acceptance criteria.

Defining the necessary criteria for the product owner to accept that the story is provided

It needs.

To be able to log in as a user, I can use a social media user story.

The acceptance criteria


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GÜNLÜK RAPOR

Diary

Entrance with Facebook

Access to LinkedIn

*You can log in with Twitter, we will then choose the option Log in with Windows for Rest Orange.

The user story will fit in the sprint in size and the specified details are the same priority

This should be determined as a criterion of acceptance. In this little story

If you have a lot of detailed information, this method will be more effective. The User Story

and as:

As a user, I have to register with a strong password when creating my account.

The acceptance criteria,

Must have at least 8 characters

It must contain at least one number.

It must contain at least one letter

It must contain at least one large letter.

It must contain at least one small letter.

It must contain at least one special character.

form must be formed.

You can use the INVEST method to evaluate the quality of user stories.

INVEST helps you remember a set of criteria or checklists. This method

A good user story should be as follows:

Independent: The user story must have its own content.

It should not be attached to other user stories.

- Negotiable: User stories, each until they enter a sprint cycle
can be changed.

Valuable: A user story should represent a value for the end user.

Estimable: Estimate the duration of a user's story

must be able.

Small: User stories in terms of plan, task, and priority

It should not be complex in order to be evaluated.

Testable: User stories should be testable.

GÜNLÜK RAPOR

Diary

Rest_Orange
User_Story_1

PO_User Story - Analiz	Açıklama	Kabul Kriterleri
1. Analiz Standartları Document Base'de yer alacak. 2. Şablon ve şablon kullanımı açıklanacak. 3. Mock-uplara ve tablo yapılarına yer verilecek	Product Owner olarak projemizin analiz standartlarının olmasını istiyorum. Böylece daha düzgün projemiz olacaktır.	

Rest_Orange
User_Story_2

PO_User Story - Kodlama	Açıklama	Kabul Kriterleri
1. Değişken isimlendirme standartı olmalıdır. 2. SOLID prensiplerine uyulacak. 3. Test ortamındaki problemlere karşı önlemlerimizi açıklayacak.	PO olarak kodlama standartlarımız olsun istiyorum. Böylece, kod yapımız sürdürülebilir olacak.	

Rest_Orange
User_Story_3

PO_User Story - Test	Açıklama	Kabul Kriterleri
1. Değişken isimlendirme standartı olmalıdır. 2. SOLID prensiplerine uyalacak. 3. Test ortamındaki problemlere karşı önlemlerimizi açıklayacak.	PO olarak test standartlarımız olsun istiyorum. Böylece, testleri daha kolay ve doğru yaparız.	

Rest_Orange
User_Story_4

PO_User Story - Kullanıcı	Açıklama	Kabul Kriterleri
1. Base frameler oluşturulacak. 2. UI/UX standart kataloğumuz olacak.	Bir kullanıcı olarak ekranlarının aynı standartlarda olmasını istiyorum. Böylece bütünlük sağlanır.	

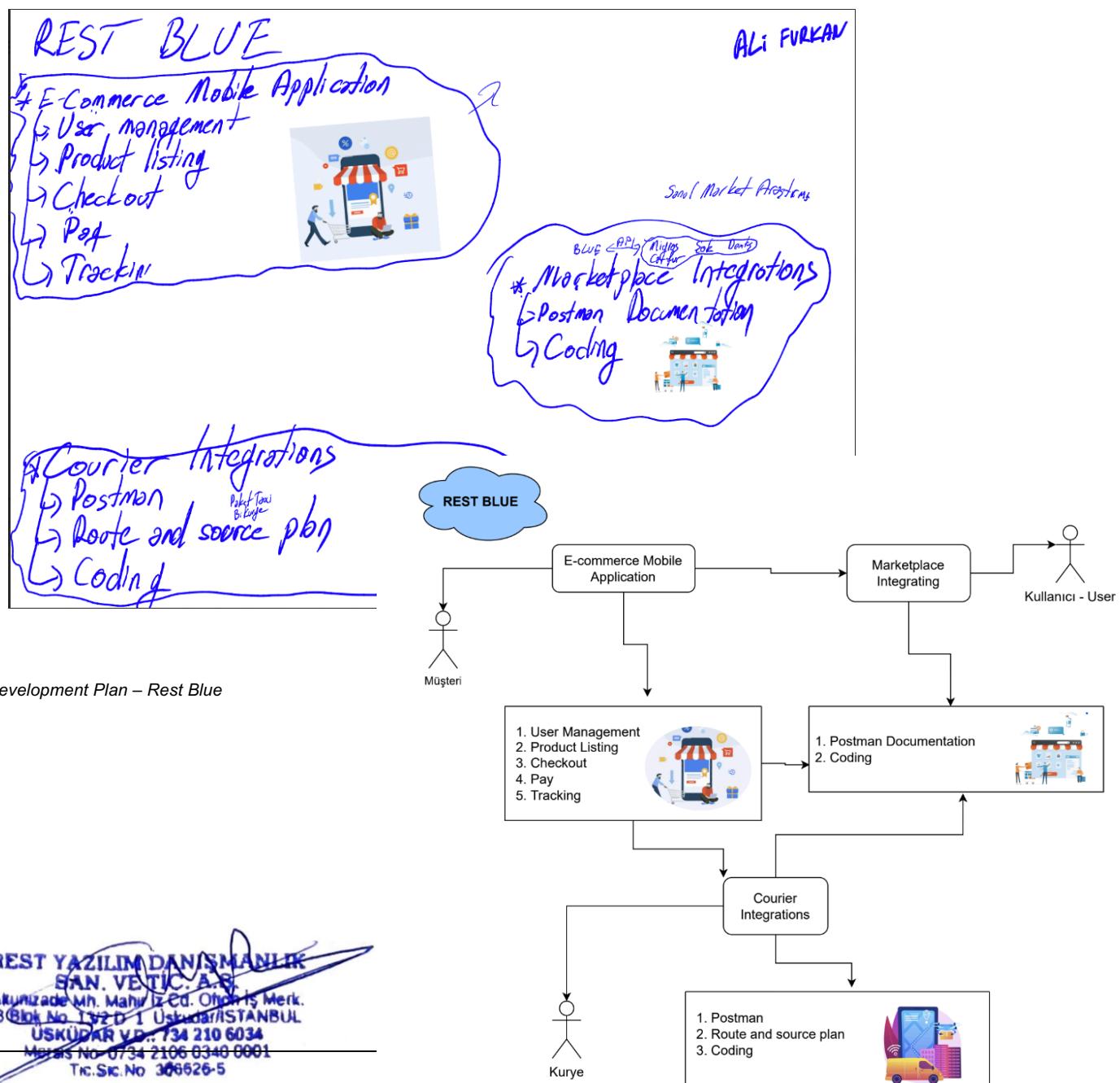
GÜNLÜK RAPOR

Diary

TARİH Date	12.07.2023
BÖLÜM Department	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ Work Done	Rest Blue – App Planning

Day 18 – 12.07.2023

Other day, I joined another planning & development plan meeting about our very new Project which is “Rest Blue”. In below image, you can see the development plan and what we will do in the next. Rest Blue will be e-commerce app.



GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	12.07.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	<i>Rest Blue – App Explanation</i>

Day 18 – 12.07.2023 – Part II

In the simplest terms, Rest Blue is going to be an e-commerce app similar to Getir. It will allow users to browse and purchase various products, ranging from groceries to other everyday items, all from the convenience of their mobile devices. As Rest Software, our main focus will be on developing the app's user-friendly interface, ensuring smooth navigation and seamless ordering processes for customers. We will also work on implementing a secure and efficient backend system to handle product inventory, order processing, and payment transactions. By creating Rest Blue, we aim to provide users with a convenient and reliable platform for their daily shopping needs, making it easier for them to get what they want, when they want it. As Rest Software, our development team is excited to work on the Rest Blue e-commerce app, and we have ambitious plans to create a feature-rich and user-friendly platform for our customers. Our first step will be to conduct extensive market research and gather insights from potential users to understand their preferences and pain points when shopping online. Based on this research, we will design Rest Blue's user interface with a focus on simplicity, intuitive navigation, and eye-catching visuals. We want to ensure that users can effortlessly explore products, easily add items to their carts, and proceed to checkout with minimal friction. To support the app's functionality, we will implement a robust backend system that efficiently manages product inventory, order processing, and payment transactions. This backend will integrate with secure payment gateways to offer various payment options for a smooth and secure checkout experience.

Personalization will be a key feature of Rest Blue. We will incorporate recommendation algorithms that analyze users' past purchases and preferences to offer tailored product suggestions, enhancing the overall shopping experience. Furthermore, Rest Blue will have real-time order tracking, providing customers with updates on their delivery status and estimated delivery times, ensuring transparency and peace of mind throughout the process.

To ensure smooth app performance and responsiveness, we will conduct rigorous testing and optimization across various devices and network conditions. As Rest Software, we are committed to upholding the highest standards of security and data privacy. We will implement stringent security measures to protect user information and financial transactions, building trust with our customers. Our customer support team will be readily available to assist users with any queries or concerns they may have, providing exceptional customer service and building strong relationships with our users.

Overall, our goal is to make Rest Blue a preferred choice for users' e-commerce needs, offering a delightful shopping experience that simplifies their daily lives. By combining cutting-edge technology, seamless design, and a customer-centric approach, we aim to create an e-commerce platform that stands out in the market and leaves a lasting impression on our users.

GÜNLÜK RAPOR

Diary

TARİH Date	13.07.2023
BÖLÜM Department	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ Work Done	Rest Orange Analysis Standards

Day 19 – 13.07.2023

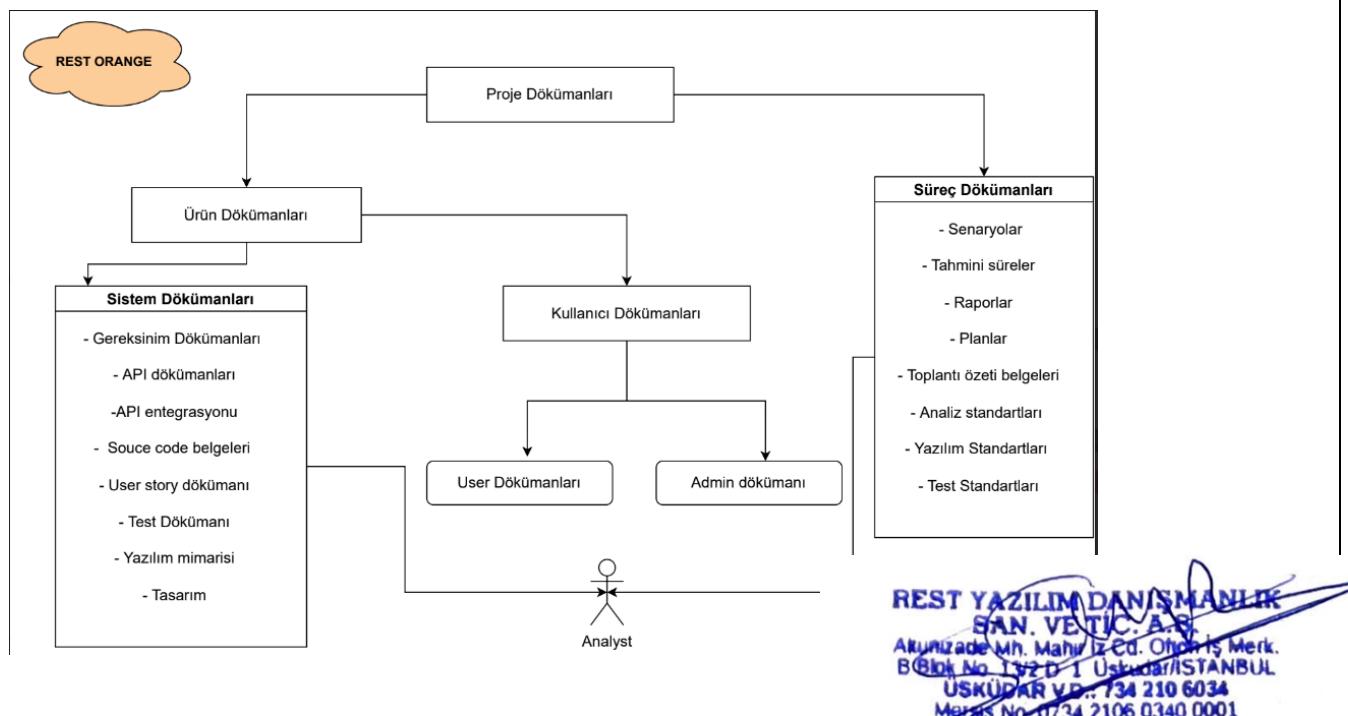
Rest Orange Analysis Standards represent the set of guidelines and best practices established by Rest Software for conducting thorough and comprehensive analysis of data in PDF documents. These standards ensure a consistent and systematic approach to extract actionable data, map information accurately, and create valuable declarations. Rest Orange's analysis standards encompass several key aspects, including data extraction methodologies, data validation techniques, and adherence to regulatory compliance requirements.

To maintain data integrity and precision, Rest Orange's analysis standards emphasize the use of advanced text extraction techniques, such as Optical Character Recognition (OCR), to accurately retrieve data from PDFs.

Additionally, data mapping processes are designed to be versatile and adaptable, allowing Rest Orange to handle diverse document formats effectively.

Moreover, Rest Orange ensures the highest level of data security and privacy compliance in line with relevant regulations. Stringent measures are applied to handle sensitive information, and access controls are implemented to restrict data access only to authorized personnel.

Through Rest Orange Analysis Standards, Rest Software aims to deliver a dependable and efficient PDF analysis tool that empowers users to transform unstructured data into valuable insights, driving better decision-making and streamlining business processes. By adhering to these standards, Rest Software ensures that Rest Orange remains a reliable and robust solution for users seeking actionable data extraction from PDF documents.



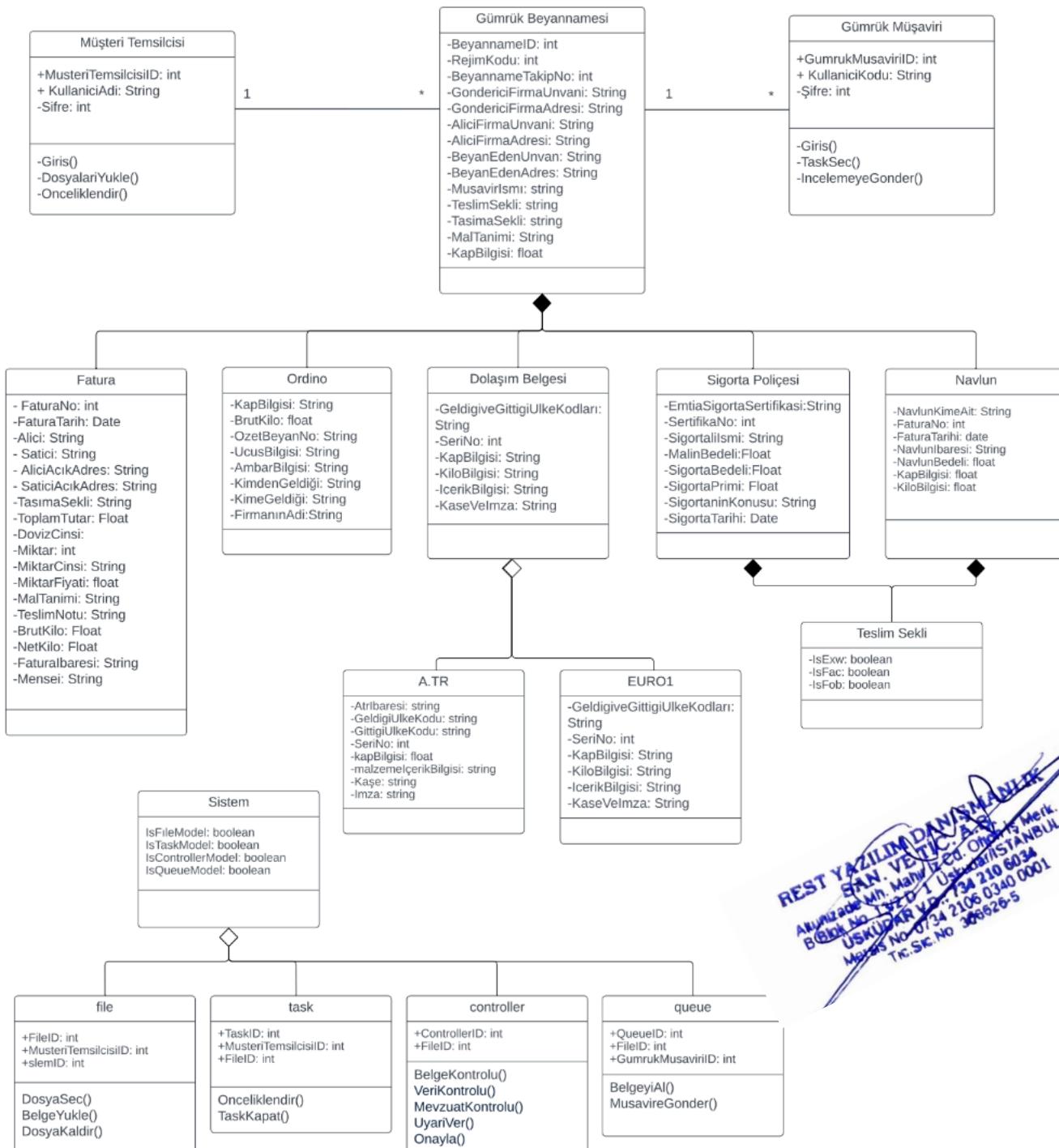
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GÜNLÜK RAPOR

Diary

TARİH Date	13.07.2023
BÖLÜM Department	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ Work Done	Database Design of Rest Orange– UML Class

Day 19 – 13.07.2023 – Part II



GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	14.07.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	Acquaintance with the office, Test Scenarios – Rest Orange

Day 20 – 14.07.2023

Final day, I created and documented Test Scenarios for Rest Orange App:

- **The regression test scenario:**

- The user can login to the Rest Orange app.
- 2-user (MT) statements can be uploaded and sent to the system
- 3-User (MT) can determine the order of importance by scoring
- 4-User (MT) can send a statement to another user (GM)
- 5 user (GM) job tracking list can fall statements, these are users
- It can be checked and sent to the system.
- The system can review these documents and send outputs to the User (GM).
- 7-User(GM) can approve these documents and send them to user(MT)
- These tests should be carried out without surviving (because the priority is high).
- It has to be done, and it must be done at 100%.

- **The Login Test - Previously registered user**

- **The functional tests:**

- Log in with a valid user name and password.
- Make sure it cannot be opened.
- Log in with a valid user name and an invalid password
- Confirm that you can't.
- When the field is empty and the Send button is clicked, both
- Check the login page.
- Check the “I Forgot My Password” function.
- Confirm messages for invalid entry
- Select the “Remember Me” function.
- The data in the Password field appears as a star mark or a matter mark.
- Check that it does not appear.
- Use a new password only after a user has changed the password. Verify that it cannot be opened.

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Diary

- The login page is the same with different identification information in a different browser
- Check if you are allowed to sign in right now.
- On the login page, the 'Enter' button on the keyboard works correctly
- Check that it does not work.
- The time spent to log in with a valid username and password
- and confirm.
- Compliant with the standard for the font, text color and color coding of the home page
- Check if it is.
- Check if there is a "Cancel" button to delete the entered text.
- Verify the home page and all its controls in different browsers

- **Non-functional safety tests:**

- More than the range specified for each user's field (User Name and Password)
- Check that there are not enough characters. Criteria of acceptance determined
- It will clear
- Confirm the login page by pressing the browser's 'Back button'.
- You should not be allowed to enter the system when you exit.
- Check the time-out function of the session.
- Log in with different identifiers of a user from the same browser at the same time
- Make sure it is not allowed to open.
- Log in to different browsers at the same time with the same user's identification information
- Check if it cannot be opened.
- Verify the login page against the SQL injection attack.
- Check the implementation of the SSL certificate.

- **The newly registered user:**

- Verify messages for each required field.
- The user will not be able to proceed without filling out all required fields.
- and confirm.
- Verify the age of the user when the date of birth is selected.
- Verify that numbers and special characters are not allowed in Name and Soyad.
- Successfully registered with all mandatory details of a user
- Check that you are not able to register.
- Verify that a user cannot log in with the valid details.

GÜNLÜK RAPOR

Diary

- Accept only similar strings of the Confirm Password and Password fields
- Verify that you do not.
- Check whether the password field asks for weak passwords.
- Verify that the e-mail address is not assigned.
- Make sure that tips are provided for each field in the form for ease of use

- **Installation of mobile login:**

- Log in with a valid user name and password.
- Confirm that you can't.
- Log in with an invalid user name or password
- Prove that this can not be done by permutation and combinations.
- Check it out.
- Select the “Let me log in” option. If this check box is selected,
- The user should not close the session even after leaving the application.
- Verify that this check box is not selected by default.
- If the user is registered with Facebook or social media, the user
- Verify that you are not able to log in with your identification information.
- I forgot my password, check it out.
- Check that the home page does not fit on the mobile screen. User screen
- It does not have to slide.

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GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	14.07.2023
BÖLÜM <i>Department</i>	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ <i>Work Done</i>	Postman Documentation

Day 20 – 14.07.2023 – Part II

After that, I had a task which was creating documentation about “Postman”. Because, Rest Orange Project is not finished yet. I had a small task related to API, and it have to be done with “Postman Software”. I had a basic research about postman

What is Postman?

Postman is an API that helps create, test and modify APIs (Application Programming Interface) development tool. Using HTTP requests with commands such as GET, POST, PUT, PATCH saving environments for later use, APIs with various programming languages. It has transcoding capabilities for use. API is software enabling applications to communicate with each other via API calls. It stands for Application Programming Interface.

Submitting a Basic Request on Postman:

Each API request uses an HTTP method. The most used methods are GET,

They are POST, PATCH, PUT and DELETE.

GET: Gets data from an API.

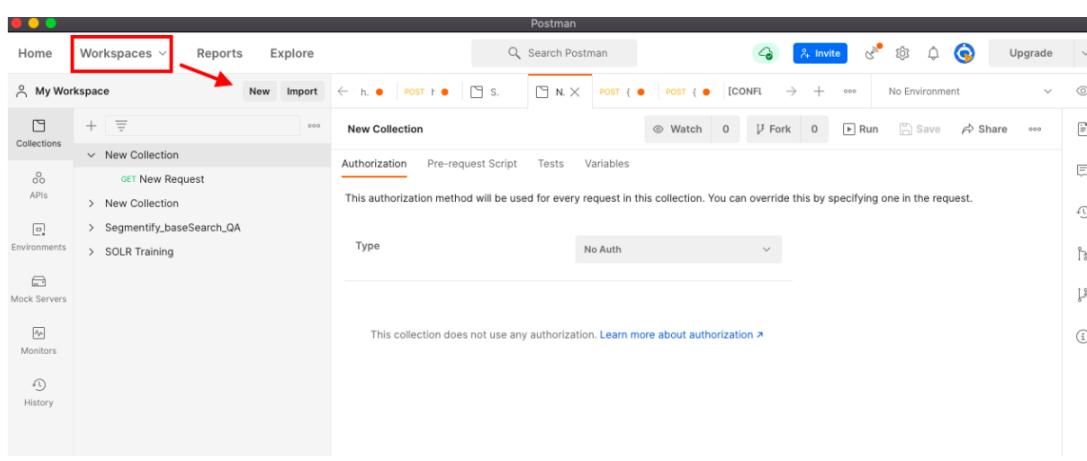
POST: Sends new data to an API.

PATCH & PUT: Updates data.

DELETE: Removes data.

After entering Postman, you need to select your Workspace.

Create by selecting the field you want to work with from the New button in Workspace. Since we are going to send a basic request, we create a new>Collection. With the collection you created, you can save your requests and use them later. You can keep it for purpose. The new request under the collection you created. You can create your request from the field. Each colelction's subfolders and multiple There may be many requests. It can also be used by duplicating a request in a collection.



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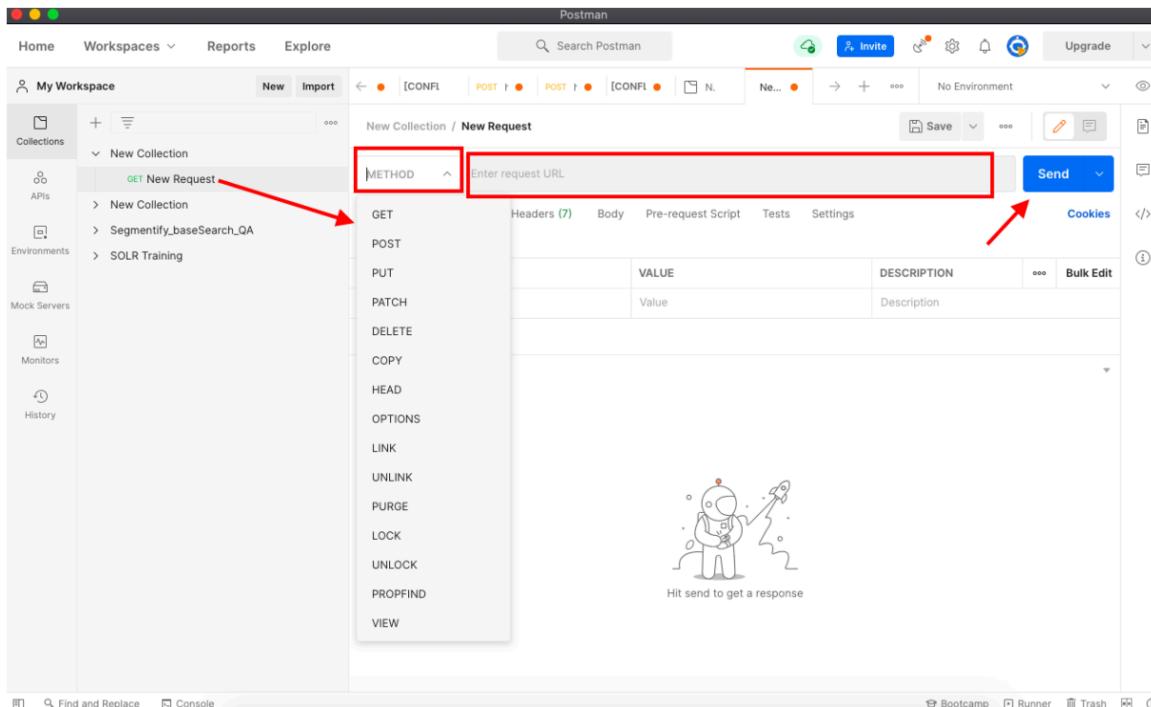
Diary

By entering a URL such as http:localhost:3000 in the Request URL field and processing

You can send your request by choosing the method you want to do. request

The request returned after sending is shown in the body field. And the request is JSON, XML,

You can view it in HTML, Text and Auto formats.



Postman New Request

If we think of Postman as a client, you can send a request to a server you want.

You can easily perform the operations you want to perform via Postman.

There is also a chrome extension available.

<https://chrome.google.com/webstore/detail/postman/fhbjgbiflinjb dggehcdcbnecd domop?hl=en>

Postman is a collaboration platform for API development. Postman's features

It simplifies every step of API creation and makes collaboration easier.

It allows you to create APIs faster.

Its main features are as follows:

Api Client : You can create Rest and Soap requests quickly and easily with Postman. You can use it instead of client.

Automated Tests: Tests can be run repeatedly by creating test groups. is automated. Postman; unit tests, functional tests, integration. Many types of tests, including end-to-end tests, regression tests, etc. can be used to automate. Automated testing avoids human error and makes it easier.

Documentation: Postman quickly and easily allows you to publish. Postman your documentation page with dynamic examples and sample requests to fill it with machine-readable instructions automatically pulls so you can easily connect your API with the rest of the World you can share.

GÜNLÜK RAPOR

Diary

TARİH Date	14.07.2023
BÖLÜM Department	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ Work Done	Postman API Task Documentation

Day 20 – 14.07.2023 – Part III

Example API documentation setup with Postman.

- 1) I downloaded the Postman application to my locale and created a user account.

Leyla Abdullayeva

View public profile

Edit Profile

No APIs

APIs you create will show up here.

- 2) After creating account I created new collection and I defined it as "Postman-Documentation_sample".

If there is an authentication at the address to which Request will be sent from the Authorization tab, you can click here. Necessary parameters can be entered.

New Import

Postman-Documentation_sample

Authorization

"New"e tıklayarak yeni koleksiyon oluşturdum.

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3) Afterwards, 3 pieces of 1.Register User, 2. Get User & 3. Login User. I created the api request.

The screenshot shows the Postman application interface. On the left, there's a sidebar with 'My Workspace' containing sections for Collections, APIs, Environments, Mock Servers, and Monitors. A context menu is open over a request labeled 'POST L'. The menu options include Share, Move, Run collection, Edit, and Add request. The 'Add request' option is highlighted with a red circle and a red arrow pointing from the left panel towards it. The main workspace on the right is titled 'Postman-Documentation_sample' and contains three numbered requests: 1. POST Register User, 2. GET Get User, and 3. POST Login User.

4) In the URL address part, <https://reqres.in/>, which is a data API for testing purposes, as End Point I used the site and assigned different links for all requests.

<https://reqres.in/api/register/> - Register User

<https://reqres.in/api/users/> - Get User

<https://reqres.in/api/user/login> - Login User

5) Afterwards, I added "description" to the collection I created.

This screenshot shows the 'Postman-Documentation_sample' collection page. At the top, there's a 'Documentation' button which is circled in red. The main content area displays the collection's purpose: '## Sample API collection' and 'This collection contains sample requests from this [API] <https://reqres.in/>'. It lists the three requests: 'Register a user.', 'Login a user with given credentials.', and 'Get details for a user.' Below this, there are links for 'NEXT IN THIS COLLECTION', 'POST Register User', 'GET Get User', and 'POST Login User'.

6) After adding a definition to the general collection, I also added the 3 requests I created before.

I added "description" one by one. (to appear after posting).

This screenshot shows the detailed descriptions for each request in the collection. The 'POST Register User' request has a description: 'e.g. Register User Example' and 'API endpoint to "Register" a user in the system.' The 'GET Get User' request has a description: 'e.g. Get User Example' and 'API endpoint to Fetch information for a user in the system.' Both descriptions include examples of URLs: 'https://reqres.in/api/register' and 'https://reqres.in/api/users/((userid))'. The 'Documentation' sections for both requests also provide additional details about the expected responses.

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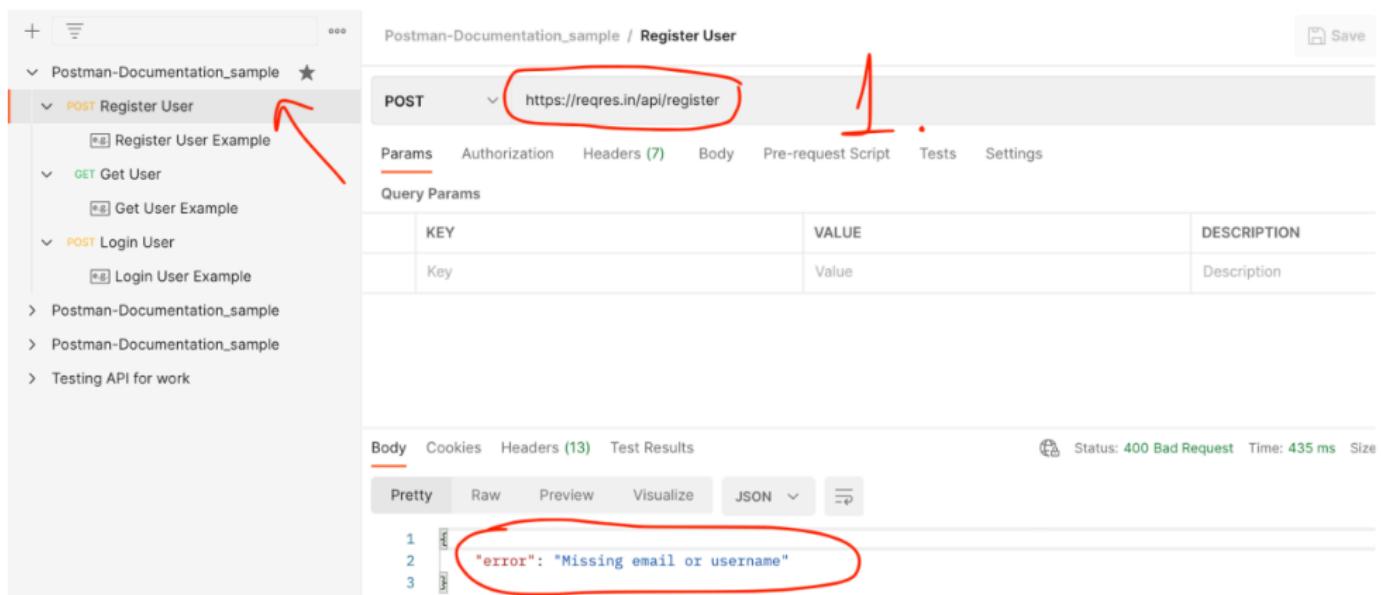
Diary

TARİH Date	14.07.2023
BÖLÜM Department	RPA (Robotic Process Automation) / Software Development
YAPILAN İŞ Work Done	Postman Task

Day 20 – 14.07.2023

7) Afterwards, I created the requests by clicking the "Send" tab and in the 4th item and I sent to addresses. Environment for different projects by clicking on the part that says No Environment we can define. And each project uses its own Environment Variables. Environment variables are also guided as Global.

Below are the individual outputs:



Postman-Docmentation_sample / Register User

POST https://reqres.in/api/register

Body Cookies Headers (13) Test Results

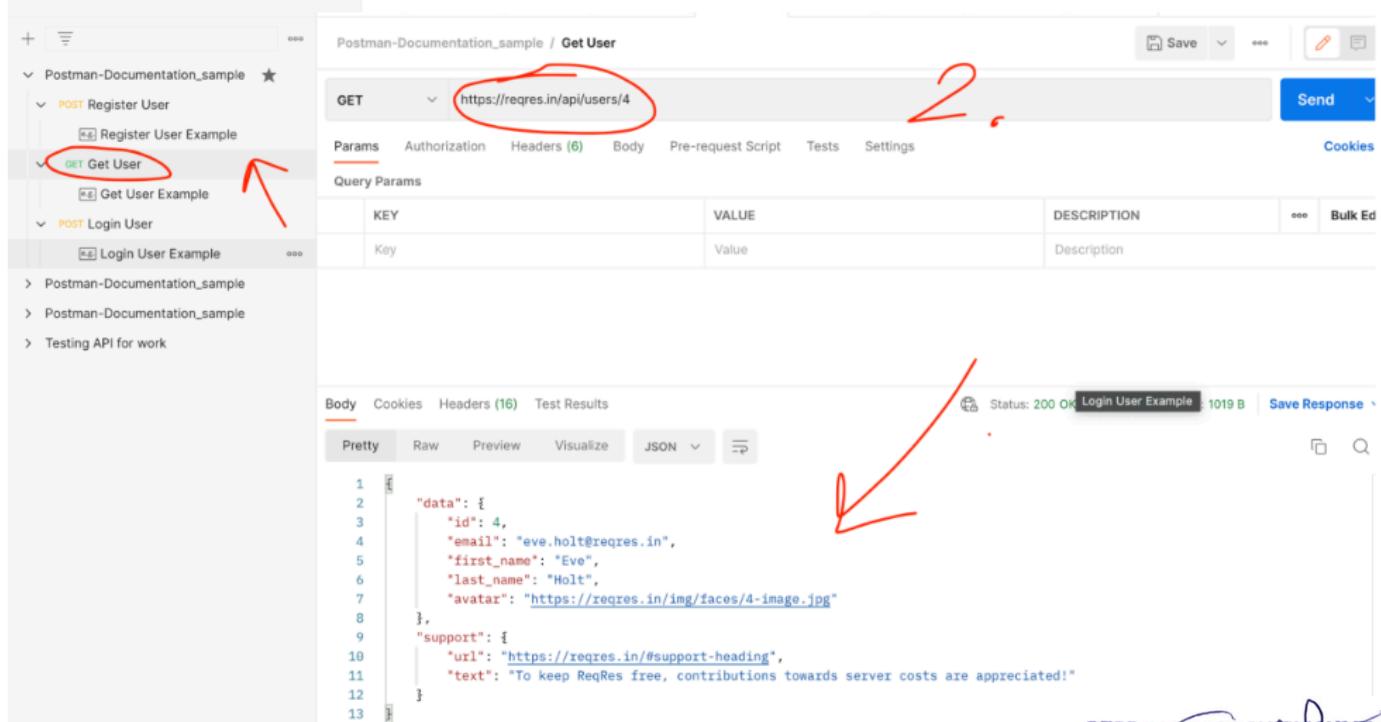
Pretty Raw Preview Visualize JSON

```

1: {
2:   "error": "Missing email or username"
3: }

```

Status: 400 Bad Request Time: 435 ms Size



Postman-Docmentation_sample / Get User

GET https://reqres.in/api/users/4

Body Cookies Headers (16) Test Results

Pretty Raw Preview Visualize JSON

```

1: {
2:   "data": {
3:     "id": 4,
4:     "email": "eve.holt@reqres.in",
5:     "first_name": "Eve",
6:     "last_name": "Holt",
7:     "avatar": "https://reqres.in/img/faces/4-image.jpg"
8:   },
9:   "support": {
10:    "url": "https://reqres.in/#support-heading",
11:    "text": "To keep ReqRes free, contributions towards server costs are appreciated!"
12:  }
13: }

```

Status: 200 OK Login User Example 1019 B Save Response

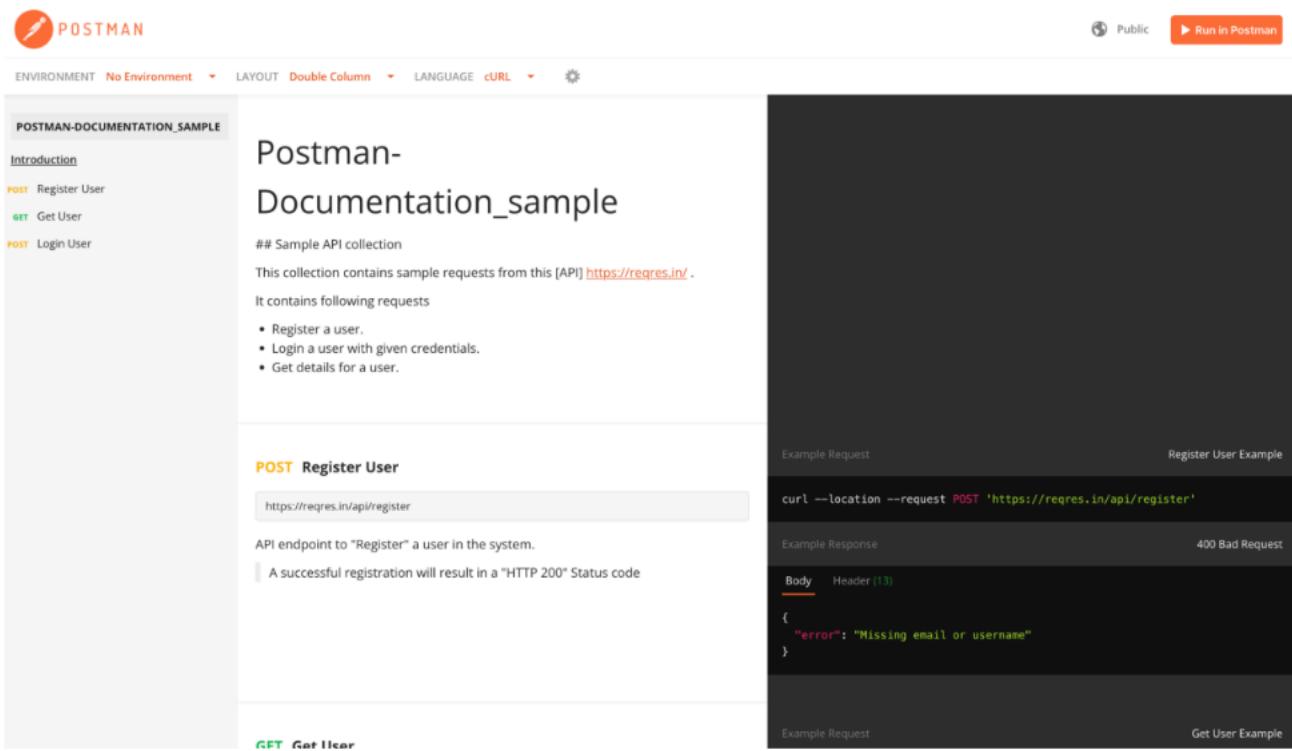
GÜNLÜK RAPOR

Diary

TARİH <i>Date</i>	14.07.2023
BÖLÜM <i>Department</i>	RPA (<i>Robotic Process Automation</i>) / Software Development
YAPILAN İŞ <i>Work Done</i>	Acquaintance Postman Task Finalization

Day 20 – 14.07.2023 – Part IV

Image below shows the final version of my documentation task in Postman Software app.



The screenshot shows the Postman application interface. At the top, there's a navigation bar with 'ENVIRONMENT No Environment', 'LAYOUT Double Column', 'LANGUAGE cURL', and a 'Run in Postman' button. The main area is titled 'Postman-Documentation_sample'. On the left, a sidebar lists three requests: 'Register User' (POST), 'Get User' (GET), and 'Login User' (POST). The 'Register User' request is expanded, showing its details. The 'Body' tab of the request panel contains the following JSON:

```
{ "error": "Missing email or username" }
```

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GENEL RAPOR

General Report

Gerektiği kadar sayfa ekleyiniz.

Add pages as needed.

This report outlines my enriching internship experience at Rest Software and Consultancy, a leading technology company established with a vision to deliver innovative software solutions and cutting-edge consultancy services. Throughout my internship, I had the privilege to work in a dynamic and diverse work environment that focused on computer programming activities, system development, database management, web page design, and automation software.

The purpose of this document is to detail the analysis, projects, and valuable experiences I gained during my time as a Computer Engineering Intern at Rest Software and Consultancy. As part of Beykoz University's internship program, this opportunity allowed me to apply my theoretical knowledge and skills to real-world scenarios, contributing to the success of a real organization and addressing practical challenges.

At Rest Software and Consultancy, I had the chance to work with new technologies, programming languages, and frameworks, broadening my technical expertise. However, the most remarkable aspect was being part of a multicultural work environment that encouraged collaboration and creativity.

Throughout my internship, I was primarily assigned the role of a frontend developer intern. However, as I successfully completed my initial project, I was offered the chance to gain hands-on experience in backend development and database management as well. This exposure allowed me to understand the intricacies of databases and web development, enhancing my skill set significantly.

Before joining Rest Software and Consultancy, I had limited familiarity with databases and frontend development tools. Nevertheless, the experience gained through my university projects helped me during the interview process, leading me to secure this incredible opportunity.

Overall, I am incredibly content with the outcomes of my internship. My time at Rest Software and Consultancy provided me with the platform to apply my theoretical knowledge in a real-world context, making meaningful contributions to the company's endeavors. The exposure to diverse projects and technologies broadened my horizons, while the supportive and professional work environment fostered my growth as a computer engineering intern. I am grateful for the experience gained and for the opportunity to contribute my skills and expertise

GENEL RAPOR

General Report

Gerektiği kadar sayfa ekleyiniz.

Add pages as needed.

ABOUT THE COMPANY

Rest Software is a dynamic and innovative technology company founded with a vision to provide cutting-edge software solutions and consultancy services. Established in 2021, Rest Software has quickly gained recognition for its expertise in computer programming activities, system development, database management, web page design, and automation software. With a dedicated team of skilled professionals, Rest Software remains committed to delivering exceptional products and services that cater to the ever-evolving needs of businesses and industries. Emphasizing a customer-centric approach, the company aims to build strong and lasting relationships with its clients, ensuring their success and satisfaction. With a focus on continuous learning and staying up-to-date with the latest advancements in technology, Rest Software strives to remain at the forefront of the IT industry, driving innovation and enabling digital transformation for businesses worldwide.

ABOUT MY EXPERIENCE

During my time as an RPA Development Intern at Rest Software, I had a truly enriching experience that has shaped my growth as a budding professional in the field of Robotic Process Automation. Working under the guidance of Sedat Cengiz, a skilled and supportive mentor, has been instrumental in my learning journey. I am grateful for the opportunity to contribute to real-world RPA projects and witness the impact of automation in streamlining business processes. Through this internship, I gained valuable insights into the intricacies of RPA technology, honed my programming skills, and developed a deep appreciation for the significance of automation in driving efficiency and productivity. I extend my heartfelt thanks to Sedat Cengiz and the entire team at Rest Software for providing me with this valuable learning experience and fostering a collaborative work environment that encouraged exploration and innovation. This internship has been a stepping stone in my career, and I look forward to utilizing the knowledge and skills acquired here to contribute to the future of automation and digital transformation.

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DEĞERLENDİRME RAPORU

Evaluation Report

My internship experience at Rest Software has been nothing short of exceptional. Throughout my time with the company, I was exposed to a dynamic and innovative work environment that fostered professional growth and nurtured talent. From the very beginning, I was warmly welcomed by the team, and I quickly became part of a close-knit community that thrived on collaboration and creativity.

Rest Software's commitment to excellence was evident in every aspect of their operations. The company's dedication to staying at the forefront of technology was inspiring, as they continuously embraced new tools and methodologies to deliver cutting-edge solutions. This commitment to innovation was evident in the projects I had the opportunity to be a part of, where I was challenged to explore and expand my skill set.

The guidance and support provided by Sedat Cengiz, the lead data analyst, were invaluable to my growth as an aspiring professional in the field of Robotic Process Automation. Sedat's expertise and patience were instrumental in helping me navigate complex challenges and understand the intricacies of data analysis. I am grateful for the mentorship and knowledge he shared, which played a crucial role in shaping my understanding of the industry. Furthermore, I extend my heartfelt thanks to Hilal Ünek and the Human Resources department for creating a welcoming and inclusive work environment. Their efforts in fostering a positive workplace culture, where every team member's contributions were recognized and valued, contributed significantly to my overall experience at Rest Software.

The company's commitment to employee development and well-being was evident through various initiatives and training opportunities they provided. I felt supported and encouraged to explore my interests and contribute to meaningful projects.

In conclusion, my time at Rest Software has been transformative. The experience has not only enriched my technical skills but also instilled in me a sense of dedication to delivering high-quality results. I leave this internship with a profound sense of gratitude for the support and opportunities provided by the entire team. Rest Software truly exemplifies what a forward-thinking and people-focused company should be, and I am proud to have been a part of their journey. I am eager to apply the knowledge and experiences gained here in my future endeavors and sincerely hope to have the chance to collaborate with this remarkable team again.


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