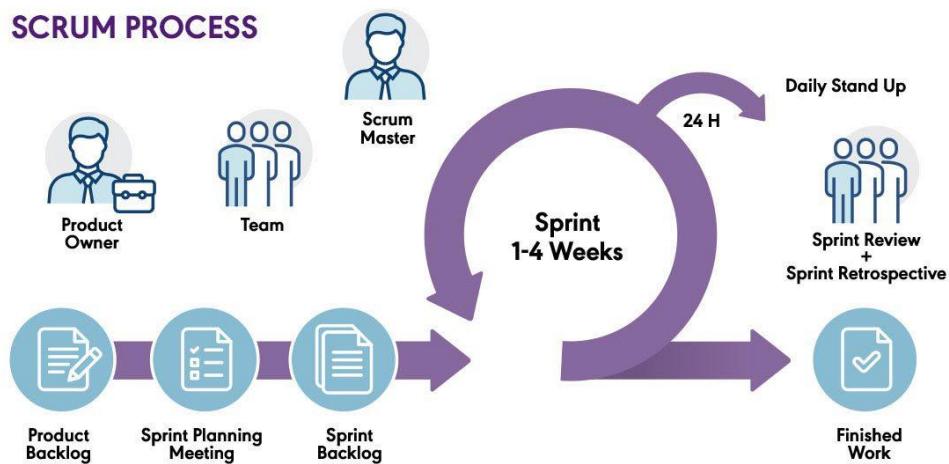


## PRATİK ÇALIŞMANIN GÜNLERE DAĞILMA ÇİZELGESİ

Öğrencinin Çalıştığı Günler	Günlük Çalışma Saati	İşyeri Amirinin İmzası	Öğrencinin Çalıştığı Konular
21/07/2025	9		“Orientation, workflow introduction, Agile-Scrum review, project setup”
22/07/2025	9		“Project briefings DevOps introduction, workflow analysis.”
23/07/2025	9		“Outlook extension development, AI-based phishing detection research.”
24/07/2025	9		“Outlook Extension Development”
25/07/2025	9		“Outlook Extension Development”
28/07/2025	9		“Outlook Extension Development”
29/07/2025	9		“Mobile app analysis meetings, UML documentation, form extension project briefing.”
30/07/2025	9		“Form Inspector Chrome extension Project development with Node.js”
31/07/2025	9		“Form Inspector Chrome extension Project development with Node.js”
01/08/2025	9		“Corporate Documentation and Archive Management System setup with React, ASP.NET Core, SQL Server, and JWT.”
04/08/2025	9		“Corporate Documentation and Archive Management System Development”
05/08/2025	9		“Corporate Documentation and Archive Management System Development”
06/08/2025	9		“Corporate Documentation and Archive Management System Development”
07/08/2025	9		“Corporate Documentation and Archive Management System Development”
08/08/2025	9		“Corporate Documentation and Archive Management System Development”
11/08/2025	9		“Corporate Documentation and Archive Management System Development”
12/08/2025	9		“Corporate Documentation and Archive Management System Development”
13/08/2025	9		“Corporate Documentation and Archive Management System Development”
14/08/2025	9		“Corporate Documentation and Archive Management System Development”
15/08/2025	9		“Final day: project completion, minor fixes, architecture review meeting, internship report preparation.”

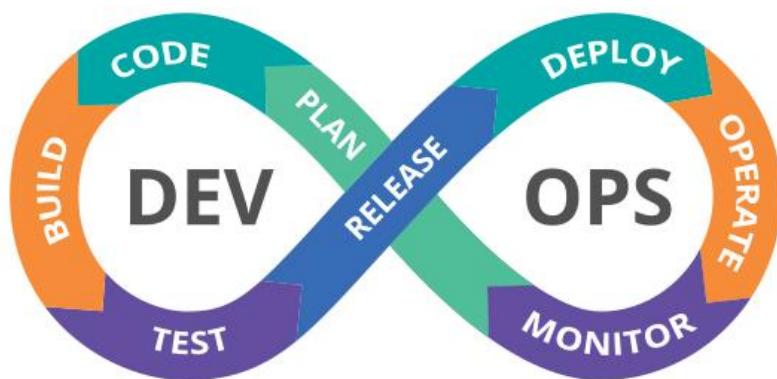
Today was my first day of internship. Upon arriving at the office, I had the opportunity to meet my colleagues. A meeting was held, lasting approximately one hour, during which I was provided with information regarding the workflow. The engineer responsible for supervising me assigned certain topics that I need to research. Among these were Agile Scrum and design patterns, which I had previously studied; therefore, I revisited my notes to refresh my knowledge.

Furthermore, the details of the workflow, including the programming languages and technologies employed, were explained more comprehensively. I also carried out the necessary installations required for the project I will be working on. Overall, this was how my first day progressed.



Sayfa No	Çalışmanın	KONTROL
1	Konusu :Orientation, workflow introduction, Agile-Scrum review , project setup	Yapıldığı Tarih 21/07/2025

I arrived at the office and received information about the projects I will be working on. I attended meetings where details regarding the company's ongoing projects were presented. I also engaged in some work related to the field of DevOps. The engineer supervising me provided insights into this field as well as several others. Today, I primarily focused on the DevOps area and made an effort to understand how the workflow is structured.



Sayfa No	Çalışmanın	KONTROL
2	Konusu: Project briefings DevOps introduction, workflow analysis.	Yapıldığı Tarih 22/07/2025

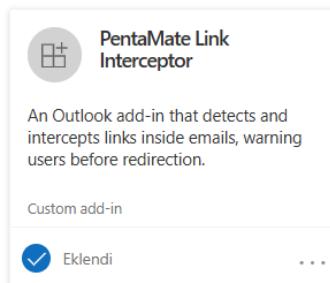
I arrived at the office and started working on the project assigned to me. I was tasked with developing an Outlook extension. The backend of this extension will be implemented using Node.js, while the frontend will be developed with HTML, CSS, and JavaScript. The project will be integrated into a part of an existing application developed by the company.

The extension is designed to analyze links contained in Outlook emails. I will integrate an artificial intelligence model into the project, which will evaluate whether the links are reliable or potentially harmful, and provide information about the websites. The primary purpose of this solution is to help prevent phishing attacks.

Today, I researched how to integrate the extension into Outlook and explored the implementation details of using the required programming languages for this task.

#### Özel Eklentiler

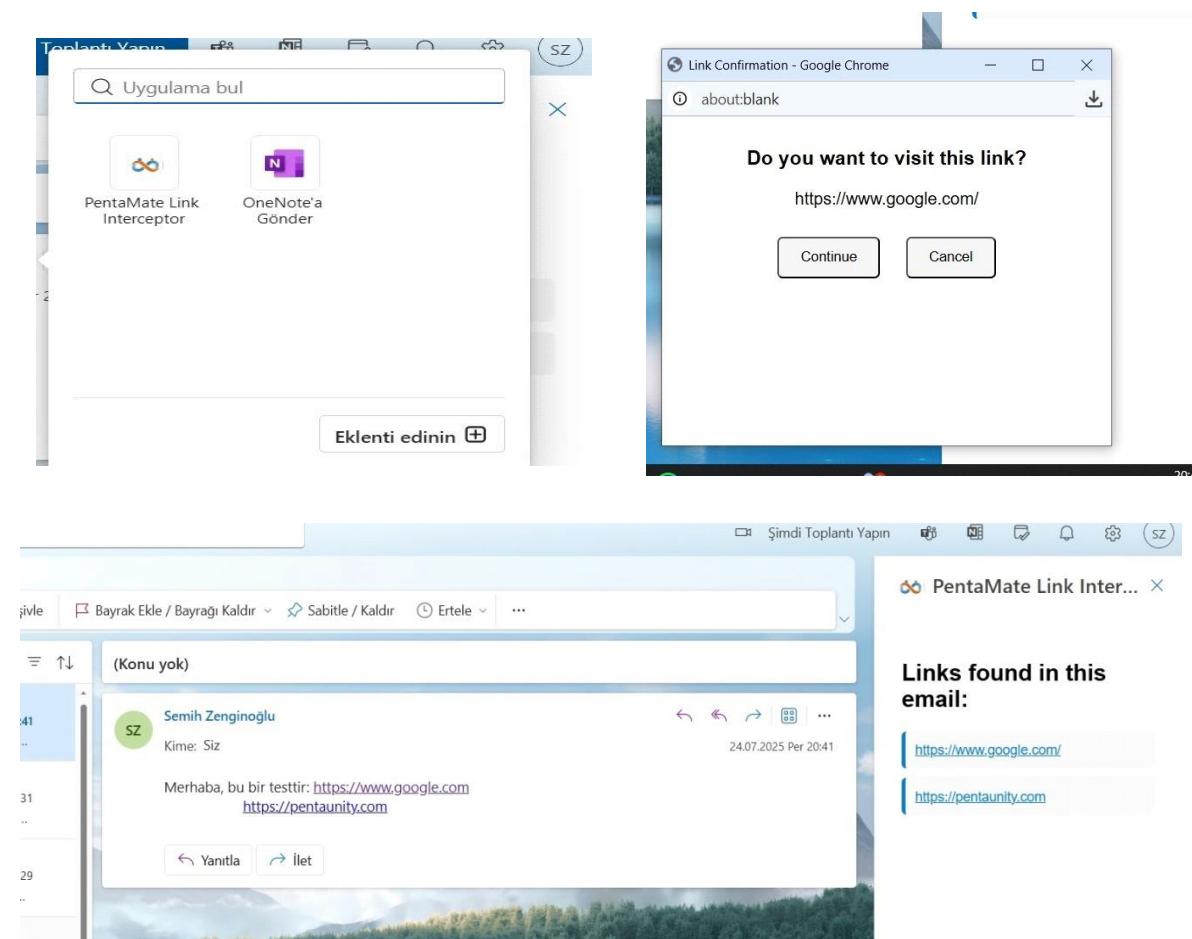
Eklentileri dosyadan veya URL'den yükleyebilirsiniz. [+ Özel eklenti ekle](#) ▾



Sayfa No	Çalışmanın	KONTROL
3	Konusu : "Outlook extension development, AI-based phishing detection research."	Yapıldığı Tarih 23/07/2025

I arrived at the office and participated in our daily meeting. In addition to this, several other meetings were held, including sessions with clients. These meetings provided me with valuable insights into the operational structure of a software company.

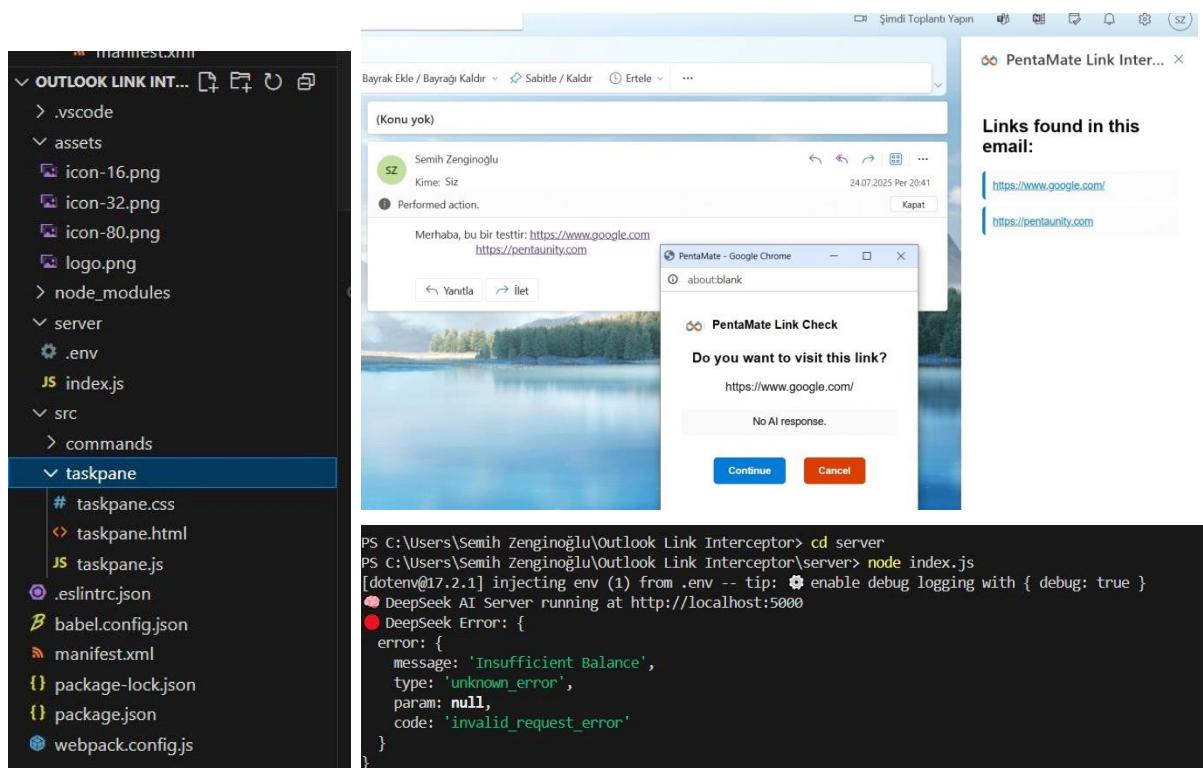
I also continued with the DevOps course I had been taking, and explored Azure DevOps in more detail. At the same time, I made progress on the project I had started earlier. Yesterday, I learned how to integrate the extension into Outlook. Today, I developed the functionality that captures links within an email, displays them, and opens a confirmation popup asking whether the user wants to proceed to the selected link upon clicking.



Sayfa No	Çalışmanın	KONTROL
4	Konusu : Outlook Extension Development	Yapıldığı Tarih 24/07/2025

I arrived at the office and, prior to the daily meeting, attended another meeting with a client. These client meetings have been highly valuable to me, as they provide extensive information about the operational processes. Following the client meeting, our daily meeting was held, during which the engineers shared updates on their work. New tasks were assigned through Azure Boards, and we reviewed completed tasks as well as issues encountered.

Later, I participated in a training session with my supervising engineer, specifically focused on DevOps. Afterward, I continued working on my project. Today, I worked on some CSS adjustments and attempted to implement an artificial intelligence integration. However, I was not successful, as I experienced issues with the API. Although the system connects to DeepSeek's server, no response is returned. This issue will require further investigation. In addition, I organized and shared the current structure of my project directory.



Sayfa No	Çalışmanın İçeriği	KONTROL
5	Konusu : "Outlook Extension Development"	Yapıldığı Tarih 25/07/2025

I arrived at the office and attended the daily meeting. Afterwards, I continued working on the remaining parts of my project. Previously, I had encountered issues while integrating artificial intelligence using ChatGPT and DeepSeek. As a solution, I decided to use Gemini. I obtained an API key from Google AI Studio and successfully integrated Gemini's API into my popup screen.

The AI system now evaluates the content of websites, checks whether they have valid licenses, verifies the use of HTTPS, and determines their overall security before providing recommendations. Based on these recommendations, users of the extension can decide whether or not to proceed to the given link.

In addition, I made improvements to the CSS design of both the task pane and the popup screen. Later in the day, I continued with the DevOps course I had been following. My supervising engineer also provided me with additional insights regarding both my project and the DevOps field. The current progress of my project can be followed through the visuals I have attached below.

```

const model = genAI.getGenerativeModel({ model: "gemini-1.5-flash" });

const prompt = `

You are an AI security assistant. Analyze the following website and tell me if it is trustworthy, if it might be phishing and if it has an official license or security certificate.

| Website: ${url}

Return your answer in a short and clear summary, no more than 5 lines. Do not add explanations or steps.
`;

const result = await model.generateContent(prompt);
const response = await result.response;
const text = await response.text();

res.json({ analysis: text.trim() });

```

**OUTLOOK LINK INTERCEPTOR**

- > .vscode
- > assets
- > dist
- > node\_modules
- > server
- ⚙ .env
- > src
  - commands
  - commands.html
  - commands.js
  - taskpane
  - # popup.css
  - # popup.html
  - # taskpane.css
  - # taskpane.html
  - JS taskpane.js
- eslintrc.json
- babel.config.json
- manifest.xml
- package-lock.json
- package.json
- webpack.config.js

Sayfa No	Çalışmanın	KONTROL
6	Konusu : Outlook Extension Development	Yapıldığı Tarih 28/07/2025

I arrived at the office and participated in the daily meeting. Afterwards, we had a meeting focused on the analysis of a new mobile application that the company is planning to develop. Documentation and UML diagrams will be prepared for this project. I attended today's session and will also be participating in tomorrow's. These meetings provided me with valuable insights into the overall system operations.

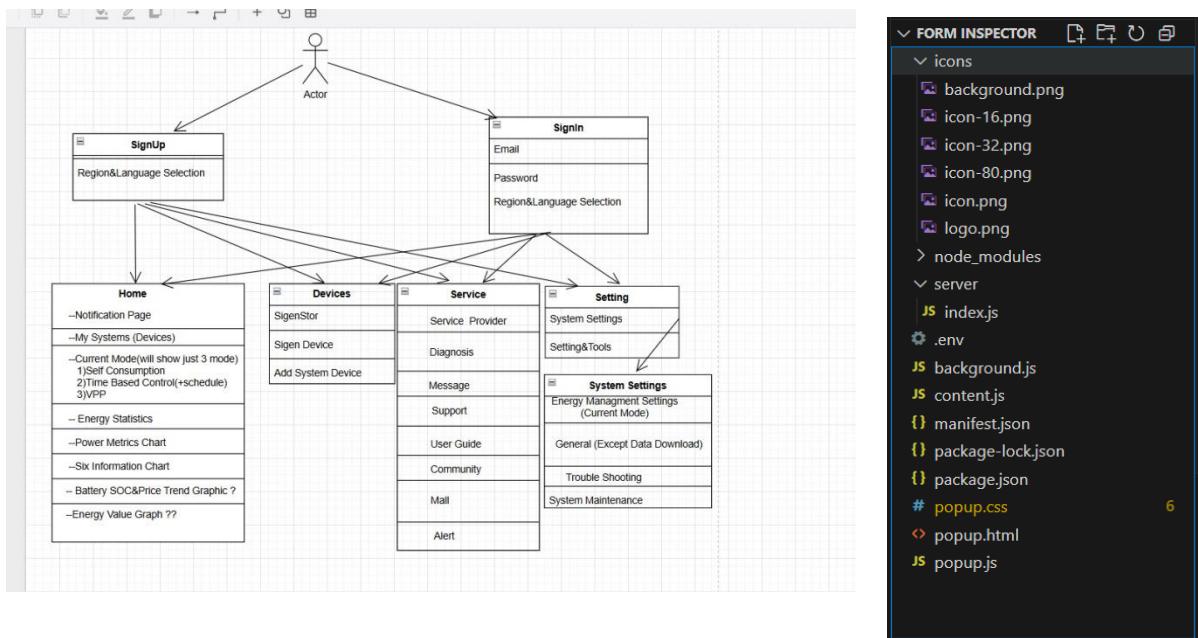
Today, I did not work on DevOps-related tasks. Instead, I mainly attended the meetings. Additionally, my supervising engineer provided me with information regarding a new project I will be working on. I was assigned to develop an extension that displays the content of a form and the URL to which it will be submitted before the form is actually posted. This extension will also include artificial intelligence integration. This was the progress of my day.



Sayfa No	Çalışmanın	KONTROL
7	Konusu: Mobile app analysis meetings, UML documentation, form extension project briefing	Yapıldığı Tarih 29/07/2025

I arrived at the office and, following the daily meeting, participated in the mobile application analysis sessions. The analysis process was completed, and documentation along with UML diagrams will be prepared. Based on yesterday's meeting, I attempted to draw the UML diagram.

In addition, I started working on my new project. While developing the extension, I once again utilized Node.js. Today, I configured the popup screen and successfully integrated the extension. I also continued with my DevOps training. The UML diagram I created, along with the main directory structure of my project, is attached below.

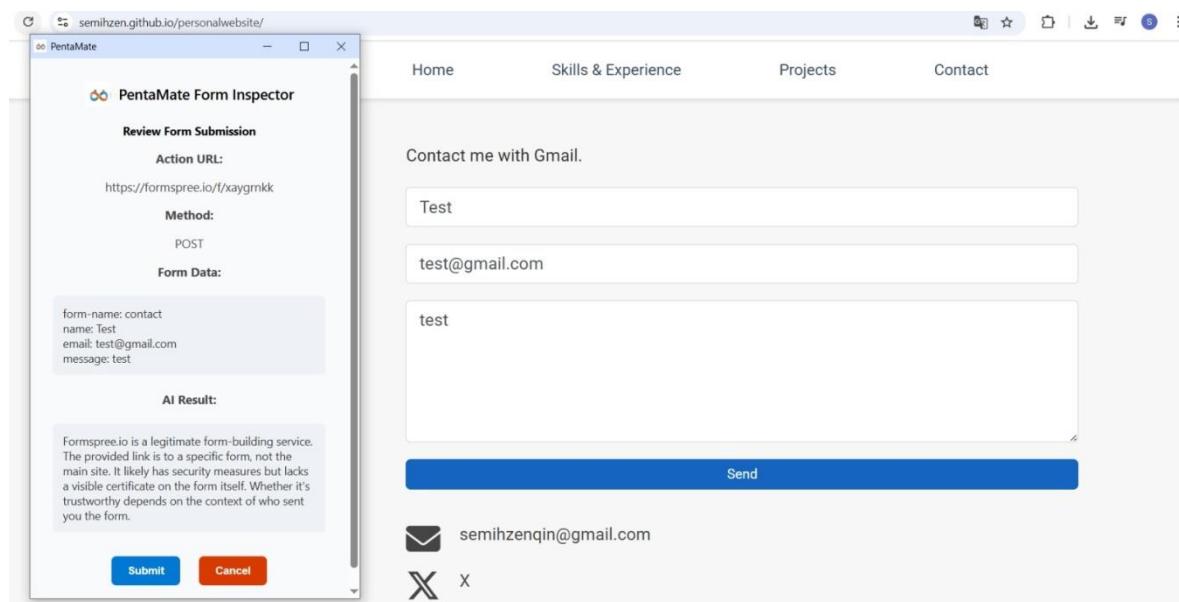


Sayfa No	Çalışmanın	KONTROL
8	Konusu : Form Inspector Chrome extension Project development with Node.js	Yapıldığı Tarih 30/07/2025

I arrived at the office and attended the daily meeting. Afterwards, I continued working on my project from where I left off and made significant progress. I successfully integrated artificial intelligence into the project and resolved several issues I had been encountering.

For instance, I fixed the overloaded error generated by the AI as well as the issue where the form was not submitted when the submit button was clicked on the popup screen. I solved the overloaded error using the code shown in the attached image, configuring the system to handle multiple AI requests.

By the end of the day, I had nearly completed my project. I also pushed my work to GitHub. Overall, this was the progress of my day.



```

for (let i = 0; i < retries; i++) {
  try {
    const result = await model.generateContent(prompt);
    const response = await result.response;
    const text = await response.text();
    return text.trim();
  } catch (err) {
    const code = err.response?.status || err.code || err.message;
    console.warn(`Retry ${i + 1} failed (${code})`);
    if (i < retries - 1) {
      await new Promise((r) => setTimeout(r, delay));
    } else {
      throw err;
    }
  }
}

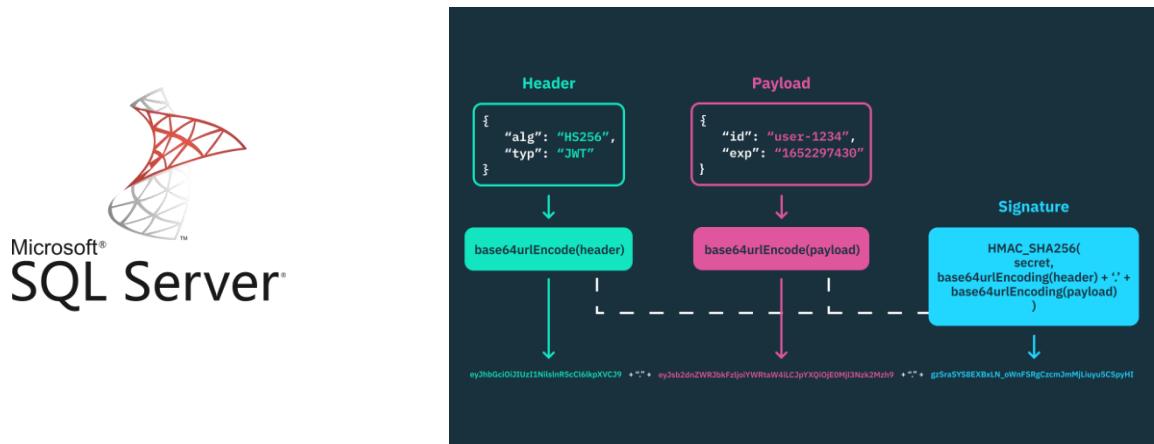
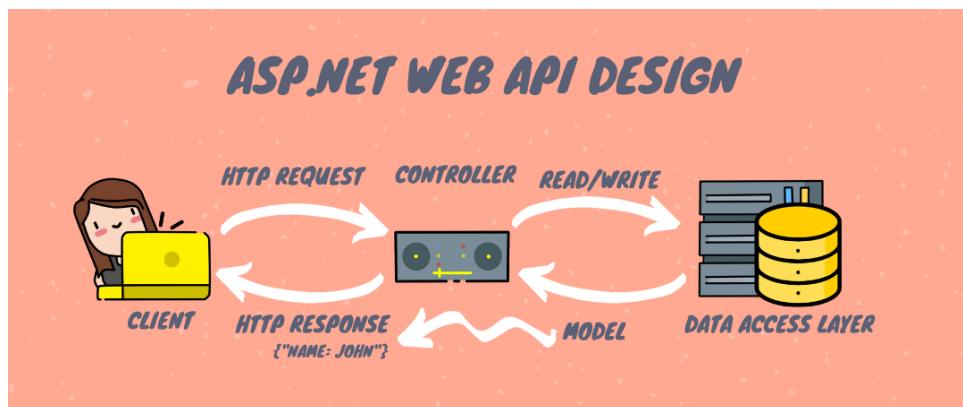
```

Sayfa No	Çalışmanın	KONTROL
9	Konusu :Form Inspector Chrome extension Project development	Yapıldığı Tarih 31/07/2025

I arrived at the office and attended the daily meeting. Afterwards, I was assigned a new project: the development of a **Corporate Documentation and Archive Management System**. This project will require me to work with several new technologies.

On the frontend side, I will be using **React**, while the backend will be developed with **ASP.NET Core**. For the database, I will utilize **SQL Server**. Authentication will be implemented using **JWT technology**, and role assignments will be provided to users. In addition, the system will include logging features to track user activities.

I will share more detailed information regarding the project structure and content once I begin development. Today, I focused on setting up the programming languages, frameworks, and technologies that I will be using. This was how my day progressed.



Sayfa No	Çalışmanın	KONTROL
10	Konusu: Corporate Documentation and Archive Management System setup with React, ASP.NET Core, SQL Server, and JWT	Yapıldığı Tarih 01/08/2025

I arrived at the office and attended the daily meeting. Afterwards, I began working on my project, which will be named **DoCu**. Today, I started by developing the **Login page**. I created a table called **Users** in my SQL Server database, the details of which are shared in the attached images.

I designed the Login page and set up both the **Sign Up** and **Sign In** sections. I also implemented **password hashing** to ensure secure authentication. Additionally, I began working on the implementation of **JWT tokens**, which I plan to continue developing tomorrow.

Overall, today I made significant progress on the authentication module of the DoCu project.

Sayfa No	Çalışmanın	KONTROL
11	Konusu: Corporate Documentation and Archive Management System Development	Yapıldığı Tarih 04/08/2025

I arrived at the office and, following the meeting, continued working on my project. Today, I focused on the part where I left off: the **implementation of JWT token generation**. After a user registers and attempts to log in, the system assigns a token to the authenticated user. This token is encrypted with the key I generated and contains information such as the user's role and email.

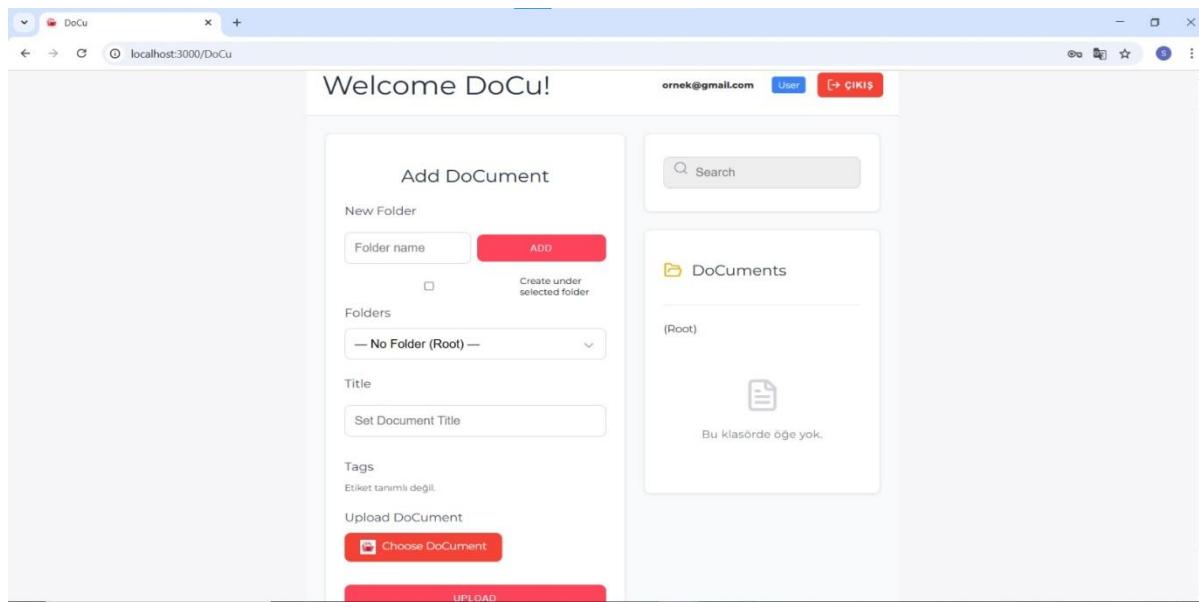
Through this token, the application ensures both **authorization** and **authentication** of the user. For this purpose, I created two API endpoints: **AuthController.cs** and **UsersController.cs**. In the attached image, the contents of my `.env` file are shown, including the key used to encrypt the token and the token's expiration time.

Overall, my work today was centered on developing and configuring the authentication mechanism of the DoCu project.

```
backend > DMS.API > .env
You, 2 days ago | 1 author (You)
1   JWT_Key=SÜP3RgÜçLÜ_B1r_JWT_Key_Örneği@2025!
2   JWT_Issuer=DMS.API
3   JWT_Audience=DMS.Client
4   JWT_ExpireMinutes=60
5
```

Sayfa No	Çalışmanın	KONTROL
12	Konusu : Corporate Documentation and Archive Management System Development	Yapıldığı Tarih 05/08/2025

After today's meeting, I continued working on my project and started designing the main page that appears after a user logs in. On this page, users will be able to create folders and add documents under them, as well as create nested folders to build a tree structure. Today, I focused on the design aspects of this page, while tomorrow I will move on to creating the related database structures. In addition, access to documents will be controlled based on user roles: an **Admin** will have full access to all documents, with the ability to edit, delete, and download them; a **Normal User** will only be able to view, edit, and delete their own documents; and a **Super User** will be able to view and read documents belonging to others but will not have the authority to edit or delete them. I have shared the current design of the main page below.



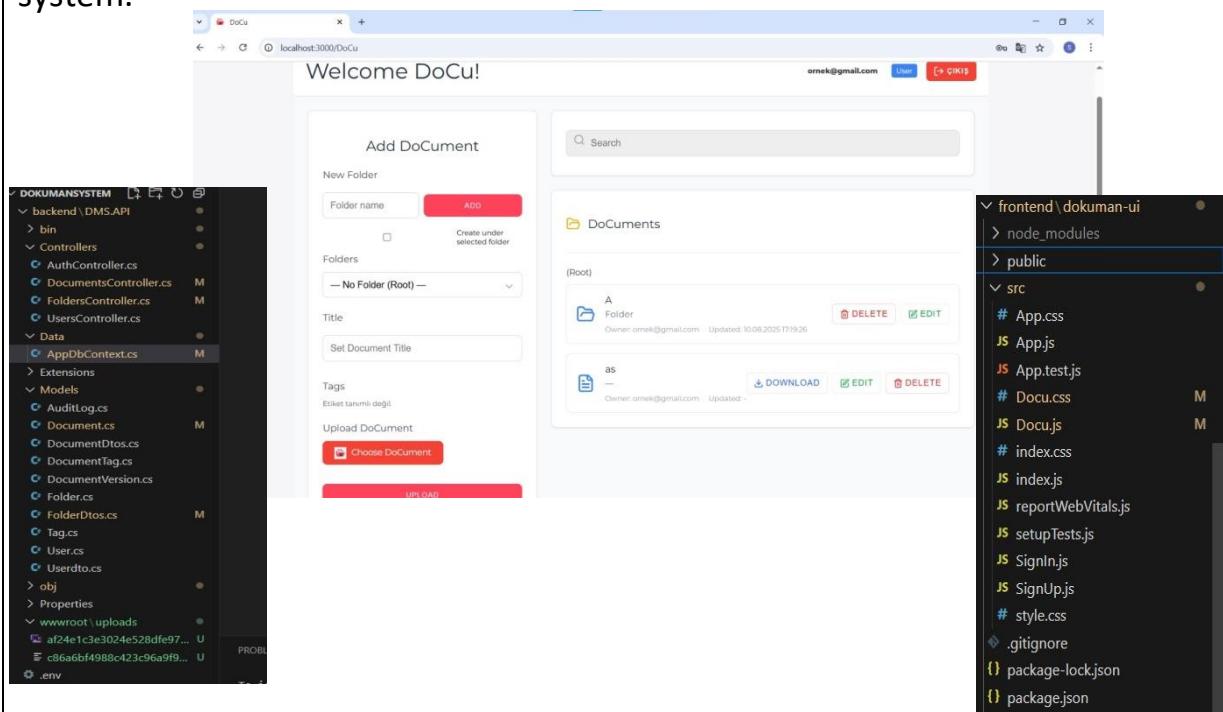
Sayfa No	Çalışmanın	KONTROL
13	Konusu:Corporate Documentation and Archive Management System Development	Yapıldığı Tarih 06/08/2025

After today's meeting, I continued working on my project and focused on the database design for the documentation system. I created all the required tables in SQL Server, ensuring that they are relationally structured. For instance, when a user uploads a document, the user's ID from the **Users** table is stored in the **OwnerId** field of the **Documents** table, which I specifically designed to support the role-based access control system. In addition, to maintain version history, I created a dedicated table called **Documents\_backup\_Once**, which stores the previous state of a document whenever it is updated. After completing the database schema, I worked on implementing the functionality for adding both folders and documents within the system. I also verified their integration with the front-end design to ensure that documents and folders can be managed hierarchically and that user permissions are applied correctly. Overall, today I made significant progress in both the back-end structure and the core functionality of the DoCu project. The attached screenshots illustrate the main page of the application, the SQL Server database structure with the designed tables, and sample entries showing how documents and folders are stored.

The screenshot shows two windows side-by-side. On the left is the 'Welcome DoCu!' application interface, featuring a sidebar for 'Add Document' with fields for 'Folder name', 'Title', 'Tags', and 'Upload Document'. It also includes a search bar and a list of documents under 'DoCuments' (Root). One document is shown with options to 'DOWNLOAD', 'EDIT', or 'DELETE'. On the right is the 'localhost\SQLExpress (SQL Server 16.0.1000 - DESKTOP...' window in SSMS, displaying the database structure. It shows the 'DokumanDB' database with its schema, including tables like 'dbo.Documents', 'dbo.DocumentTags', and 'dbo.Folders'. Below the database structure, there are two open table editors. The top one shows a table with columns: Id, Title, Description, FileName, MimeType, FileSizeBytes, StoragePath, HashSha256, FolderId, OwnerId, VersionNumber, and CreatedAt. A single row is selected with the values: Id = E3F97AFD-6DCE-4528-8131-4BF53249E94, Title = null, Description = null, FileName = 2.gün\_analiz.txt, MimeType = text/plain, FileSizeBytes = 39695, StoragePath = c96a694988c423c96a9f927a3acdddf, HashSha256 = 104C770154FD478A25AEAA6690B0416C48FC0FB612498727, FolderId = null, OwnerId = 3, VersionNumber = 1, and CreatedAt = 2025-08-10 17:19:26.579. The bottom table editor shows a table with columns: Id, Name, ParentId, OwnerId, Path, Level, CreatedAt, and UpdatedAt. A single row is selected with the values: Id = B41131A1-AFB6-42EF-900D-00110F60A376, Name = A, ParentId = null, OwnerId = 3, Path = /A, Level = 0, CreatedAt = 2025-08-10 17:19:26.579, and UpdatedAt = 2025-08-10 17:19:26.579.

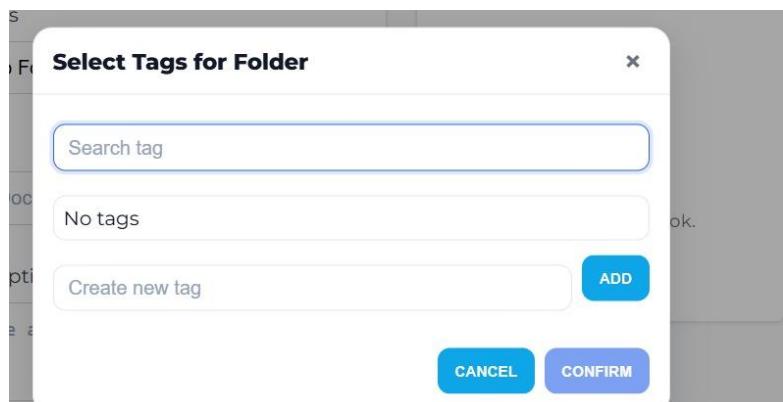
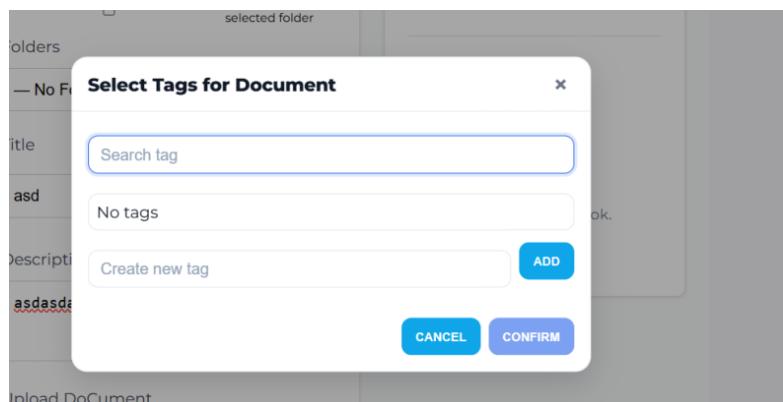
Sayfa No	Çalışmanın	KONTROL
14	Konusu: Corporate Documentation and Archive Management System Development	Yapıldığı Tarih 07/08/2025

After today's daily meeting, I continued working on my project and built upon the functionalities I had completed yesterday. In addition to the folder and document creation features, I implemented the **delete** and **download** functionalities. Now, when a document is uploaded, it is stored in the `wwwroot` directory of the project, and when a user wants to download it, the file is retrieved from there. The **edit** functionality is the only major feature left to be implemented. I also reviewed both the frontend and backend directory structures of the project to ensure proper organization. Furthermore, I tested the authentication system where tokens are deleted upon logout, and new tokens are generated upon login, confirming secure session management. Looking ahead, I plan to develop an **Admin Panel**, which will allow administrators to view all users and all documents. By default, newly registered users are assigned the role of **Normal User**, while the role of **Super User** will be assignable only by the Admin through the Admin Panel. Today's progress brought me closer to completing the core functionalities of the DoCu system.



Sayfa No	Çalışmanın	KONTROL
15	Konusu:Corporate Documentation and Archive Management System Development	Yapıldığı Tarih 08/08/2025

After today's meeting, I continued working on my project and focused on implementing the **tagging feature** for documents and folders. I wrote the necessary React code to allow tags to be assigned to multiple documents and folders, providing flexibility for categorization. However, I encountered several issues while attempting to save these tags to the database. Although the front-end functionality worked as expected, the process of confirming and persisting tags into the database produced multiple errors. I spent the entire day debugging and troubleshooting these problems but was unable to fully resolve them. I have attached screenshots of the sections I developed, which currently demonstrate the tag assignment interface, even though the database integration remains incomplete.



Sayfa No	Çalışmanın	KONTROL
16	Konusu: Corporate Documentation and Archive Management System Development	Yapıldığı Tarih 11/08/2025

After today's meeting, I continued working on my project and successfully resolved the issue I had previously encountered. I completed nearly all of the main page functionalities. Specifically, I implemented a confirmation button for the delete process, enhanced the edit feature to allow tags to be modified, and configured the system to support multiple tags for both documents and folders. On the database side, I ensured that if a tag is no longer associated with any document or folder, it will automatically be deleted. I also developed a search functionality that allows documents and folders to be queried by tags, and I added the ability to include descriptions for documents. I have attached both the database schema and screenshots of the features I implemented.

Tomorrow, I will begin developing the Admin Panel.

The screenshot displays several windows from a software application:

- Dokümanı Düzenle** (Document Edit): A modal window for editing a document. It shows a title field with "asd", a "KAYDET" (Save) button, and a "Etiketler" (Tags) section with a "Etiket ara / yeni ekle" (Search/Add Tag) input field and a "MEVCUT ETİKETLER" (Current Tags) list containing "asd". There are "EKLE" (Add) and "ETİKETLERİ KAYDET" (Save Tags) buttons. Below is a "Yeni Sürüm Yükle" (Upload New Version) section with a "Dosya seç" (Select File) button and a "SÜRÜM YÜKLE" (Upload Version) button.
- Klasörü Düzenle** (Folder Edit): A modal window for editing a folder. It shows a "Klasör Adı" (Folder Name) field with "asd", a "Etiketler" (Tags) section with a "Etiket ara / yeni ekle" (Search/Add Tag) input field and a "Ekle" (Add) button, and a "ASD" tag listed. At the bottom are "İPTAL" (Cancel) and "KAYDET" (Save) buttons.
- SQLQuery1.sql...Inoglu (51)\***: A SQL query window showing the following code:

```

1 1 v Select * from Documents
2 2 Select * from DocumentTags
3 3 Select * from FolderTags
4 4 Select * from Tags
5 5 Select * from Folders
6
    
```
- Table Data**: A grid view showing data from the database tables. It includes columns for DocumentId, Title, Description, FileName,MimeType, FileSizeBytes, StoragePath, HashSha256, FolderId, OwnerId, and VersionNr. One row is shown with values corresponding to the screenshot above.
- Onay** (Confirmation): A modal dialog box asking "Bu klasör ve içindeki tüm dosyalar silinecek! Klasör: asd Emin misiniz?". It has "İPTAL" (Cancel) and "SİL" (Delete) buttons.

Sayfa No	Çalışmanın	KONTROL
17	Konusu: Corporate Documentation and Archive Management System Development	Yapıldığı Tarih 12/08/2025

Today, I continued working on my project and began developing the **Admin Panel**, completing a significant portion of its functionality. In the role management system, newly registered users are automatically assigned the **User** role, but I implemented a feature in the Admin Panel that allows the administrator to promote a user to **Super User**. I also added a section that provides statistical information about the number of folders, users, and documents stored in the database. Additionally, I implemented the ability to delete user accounts from the system. For the front-end, I created a dedicated `AdminPanel.js` component, while on the back-end I developed the required logic in `AdminPanelController.cs`. Finally, I set up a specific route `/Admin` for accessing the Admin Panel. Overall, today's work was focused on extending system management capabilities through the development of the Admin Panel.

The screenshot shows the DoCu Admin dashboard at `localhost:3000/Admin`. The left sidebar has links for DASHBOARD, USERS, ARCHIVED DOCS, and FOLDERS. The main area has a search bar and four summary cards: Toplam Kullanıcı (1), Superuser (0), Doküman (Toplam) (1), and Klasör (1). Below are sections for Son Kullanıcılar (listing one user: örnek, ornek@gmail.com, Rol: user, Oluşturulma: -, Aksiyon: SUPERUSER, USER YAP, SIL) and Arşivli Dokümanlar (listing one document endpoint). A note says "Doküman listesi endpoint'i eklenince bağlayacağız." The Klasörler section notes "Klasör listesi endpoint'i eklenince bağlayacağız."

Sayfa No	Çalışmanın	KONTROL
18	Konusu: Corporate Documentation and Archive Management System Development	Yapıldığı Tarih 13/08/2025

Today, I continued working on my project, which is now nearly complete. I finalized several key features in the **Admin Panel**, including a table displaying all users, a section for archived documents, and a hierarchical directory view showing documents and folders uploaded by other users, similar to the structure already implemented on the DoCu main page. Furthermore, I enabled both the **Super User** and **Admin** roles to view documents and folders uploaded by others directly from their main pages. However, I restricted the Super User role so that they can only edit or delete their own documents and folders, while the Admin role retains full control and access to all documents within the system. I have attached screenshots of the updated Admin Panel and the newly implemented sections. Overall, today's work brought the project to its final stages.

The image displays three screenshots of the DoCu Admin Panel interface:

- Dashboard:** Shows a search bar, a sidebar with 'DoCu Admin' and navigation links (DASHBOARD, USERS, ARCHIVED DOCS, FOLDERS), and a main area with a 'Documents' section containing a folder named '(Root)' with a file named 'e' (Owner: omerk@gmail.com, Updated: 14.08.2025 15:58:39)'. Below it is a file named 'TESTI' (Owner: omerk@gmail.com, Updated: -).
- Users:** Shows a table titled 'Kullanıcılar' (Users) with two entries:
 

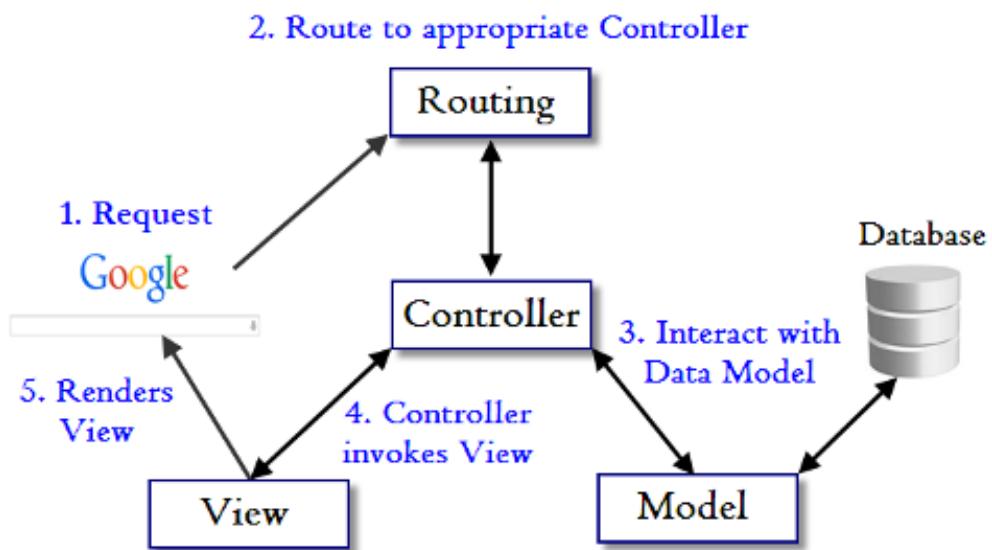
#	Ad Soyad	Email	Rol	Oluşturulma	Aksiyon
1	Semih Zenginoğlu	semih@gmail.com	SUPERUSER	-	<span>SUPERUSER</span> <span>USER YAP</span> <span>SM</span>
2	Ömer	omerk@gmail.com	USER	-	<span>SUPERUSER</span> <span>USER YAP</span> <span>SM</span>
- Archived Docs:** Shows a table titled 'Archived Docs' with a list of files:
 

(Root)
e
sda
s11111
Test
asda
asd
test12
- Folders:** Shows a table titled 'Folders' with a list of folders:
 

(Root)
e
TESTI

Sayfa No	Çalışmanın	KONTROL
19	Konusu: Corporate Documentation and Archive Management System Development	Yapıldığı Tarih 14/08/2025

Today, I attended the scheduled meetings. Afterwards, I had a one-hour meeting with my supervising engineer, during which we discussed in detail the architectures and structures I should apply while developing my project. Since I had completed my project yesterday, I spent some time fixing minor issues in the code and dedicated the rest of the day to organizing my internship diary. As this was the final day of my internship, I focused mainly on updating my diary and reviewing the projects I had developed.



Sayfa No	Çalışmanın	KONTROL
20	Konusu: Final day: project completion, minor fixes, architecture review meeting, internship report preparation	Yapıldığı Tarih 15/08/2025