## COD305 Final Project

Ozyegin University Ders Planına Göre Mezuniyet Denetimi (DPGMD)

Atakan Göksel S028183 22.12.2023

### INDEX

- 1. Introduction to Ders Planına Göre Mezuniyet Denetimi
- 2. Interface Analysis of Ders Planına Göre Mezuniyet Denetimi
  - a. Accordion Menus
  - b. Dropdown Menus
  - c. Modal Dialog Box
  - d. Navigation Bar
  - e. Status Indicators
    - f. Tabs

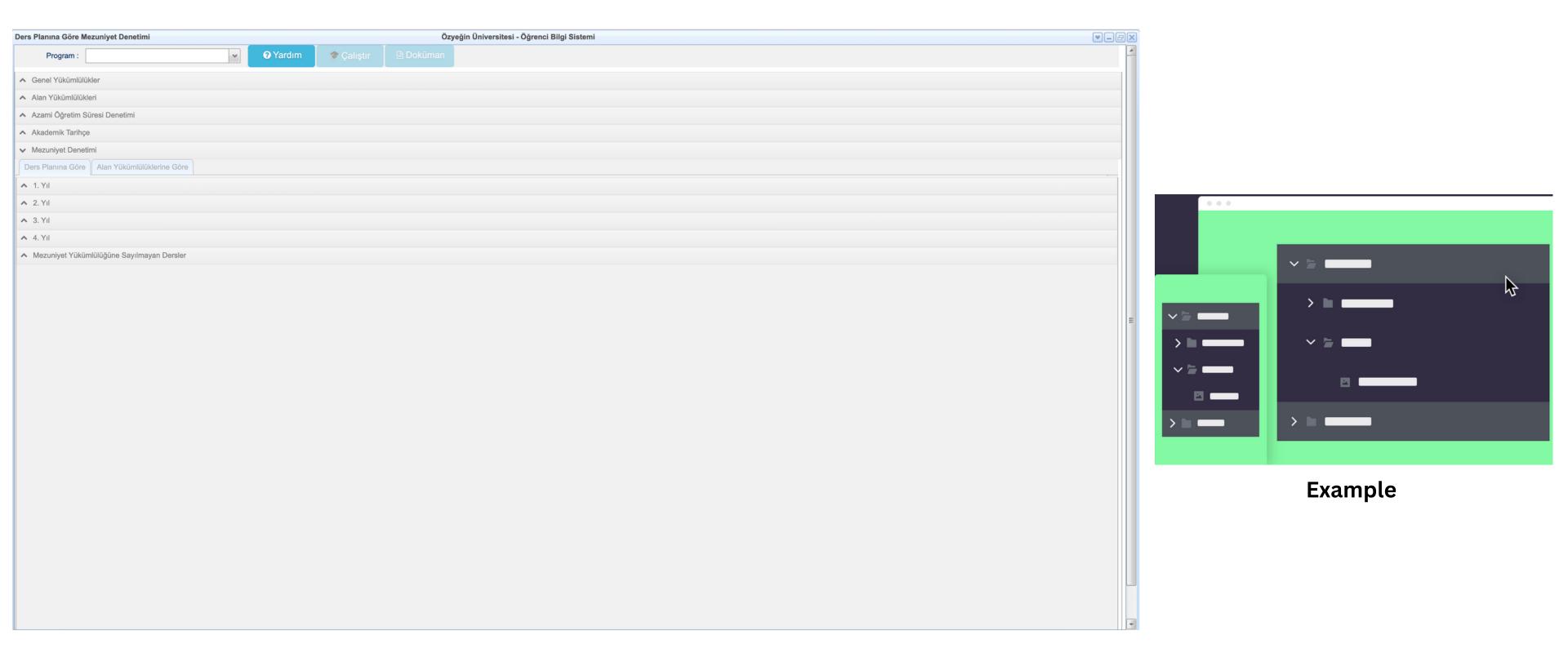
### 3. Ten Usability Heuristics

- a. Visibility of System Status
- b. Match Between System & Real World
  - c. User Control & Freedom
  - d. Consistency & Standards
    - e. Error Prevention
  - f. Recognition Rather than Recall
  - g. Flexibility & Efficiency of Use
  - h. Aesthetic & Minimalist Design
- i. Help Users Recognize, Diagnose & Recover from Errors
  - j. Help & Documentation

#### 4. Errors

- a. Lack of Error Prevention
  - b.
  - C.
  - d.
  - e.
  - c
  - ദ
  - h.
  - .
  - •

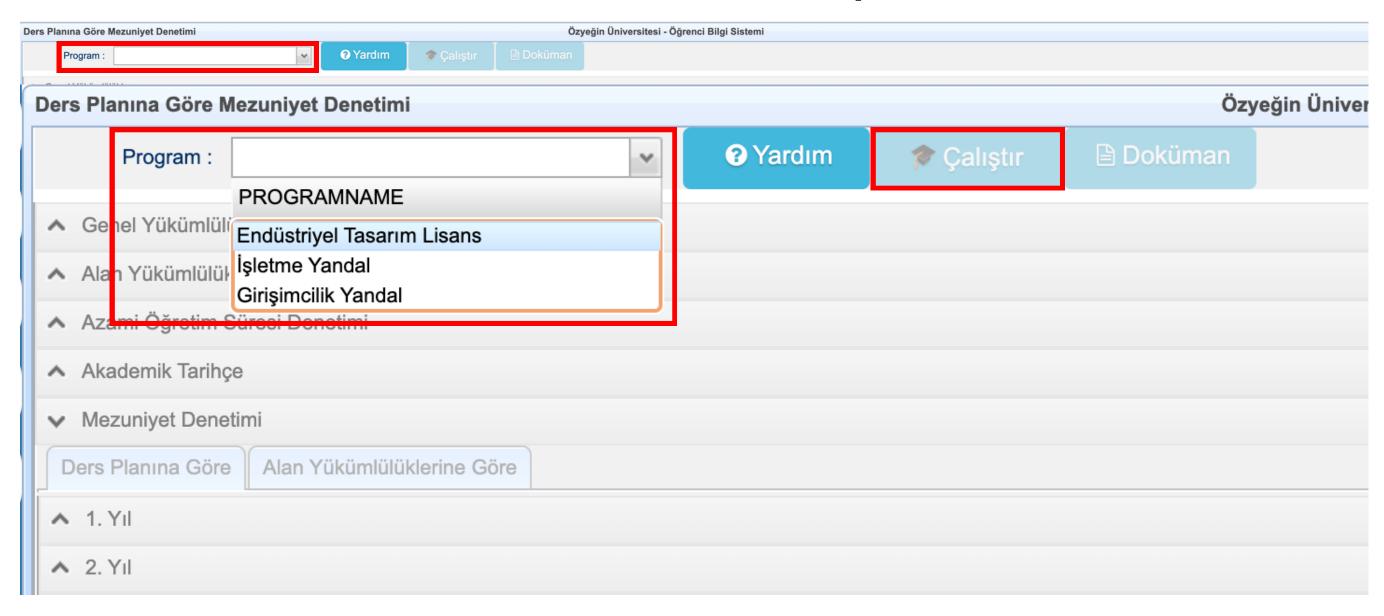
### **Starting Page - Accordion Menu**

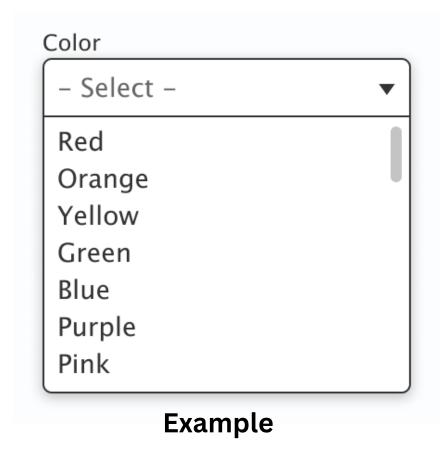


First page of the "Ders Planına Göre Mezuniyet Denetimi (DPGMD)" consists of **Accordion Menus** such as "Genel Yükümlülükler", "1. Yıl", "Mezuniyet Yükümlülüğüne Sayılmayan Dersler"...

But first we need to select a program in order to interect with the menus, tabs, buttons, grids, windows and etc...

### **Dropdown Menu**





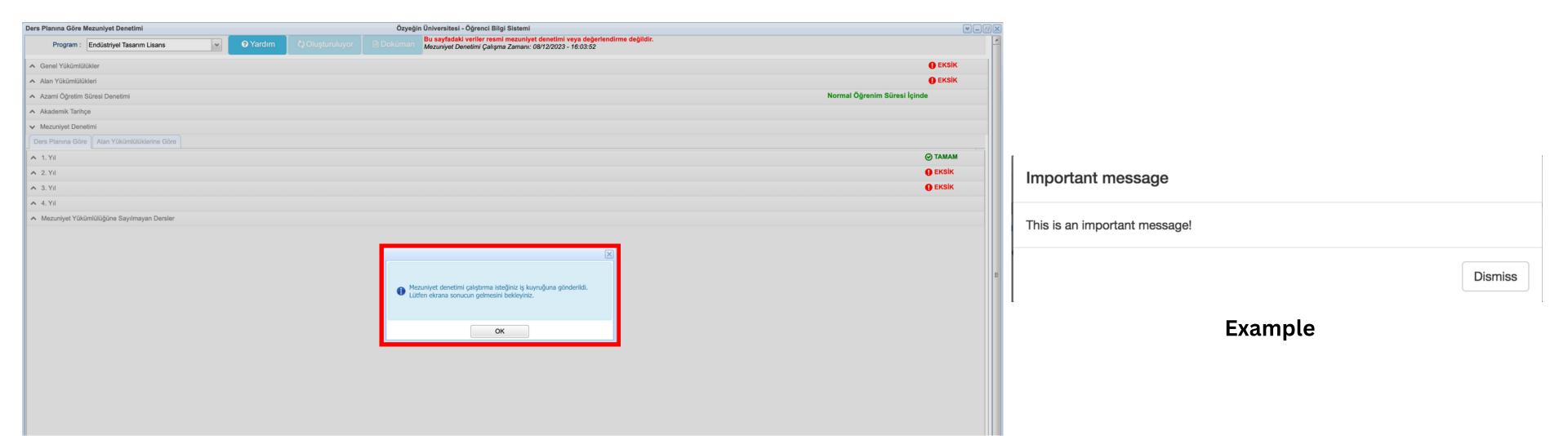
To select a program of choice, the user needs to navigate through the "Program:" bar and choose the program and then click run.

This "Program" navigation is called a Dropdown Menu.

This common graphical control element allows users to choose one value from a list. When a user clicks on the dropdown menu, it displays a list of items from which the user can select one item at a time.

In this case, it seems to contain different program options such as "Endüstriyel Tasarım Lisans" (Industrial Design Bachelor's Degree), "İşletme Yandal" (Business Minor), "Girişimcilik Yandal" (Entrepreneurship Minor).

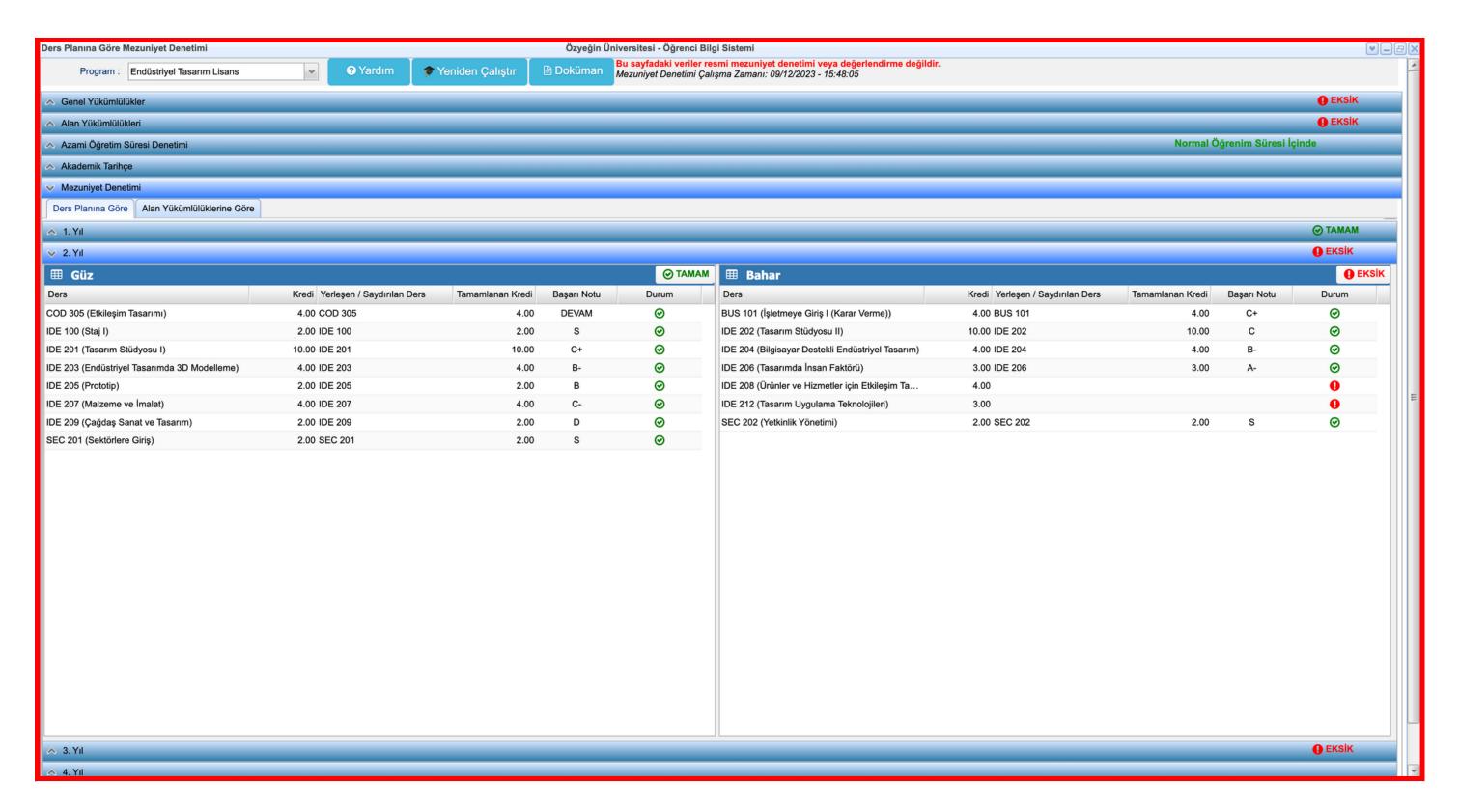
### **Modal Dialog Box**



The UI element shown in the image is called a **Modal Dialog Box** or simply **Modal**. It's a type of window that appears in front of the main application screen, requiring users to interact with it before they can return to using the app.

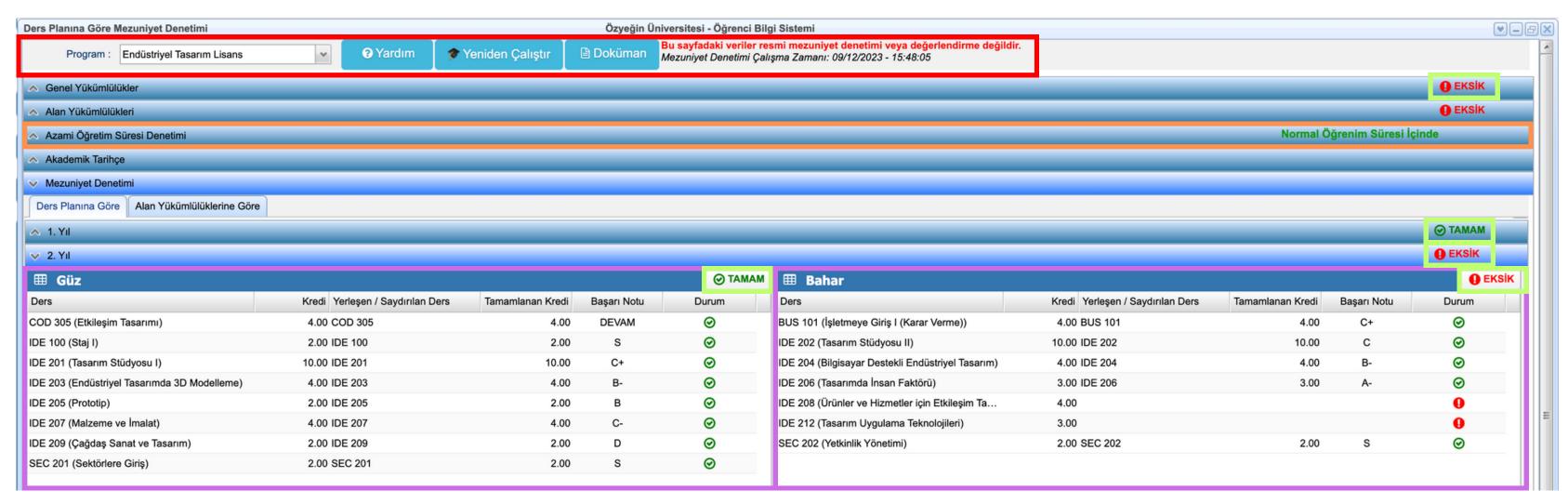
This particular modal displays a message and includes an "OK" **button**, which likely dismisses the dialog and allows the user to proceed.

When choosen a program and click run, the system pops the **Modal Dialog Box** to warn the user that, the user needs to wait for the system to come up with the documentation required.



After loading, this is the page that the user sees first. The page consists of **Accordion Menus** which are mainly about the 4 years of courses divided to 1,2,3 and 4 and also each year is divided to 2 terms.

### 1.Page of Mezuniyet Denetimi

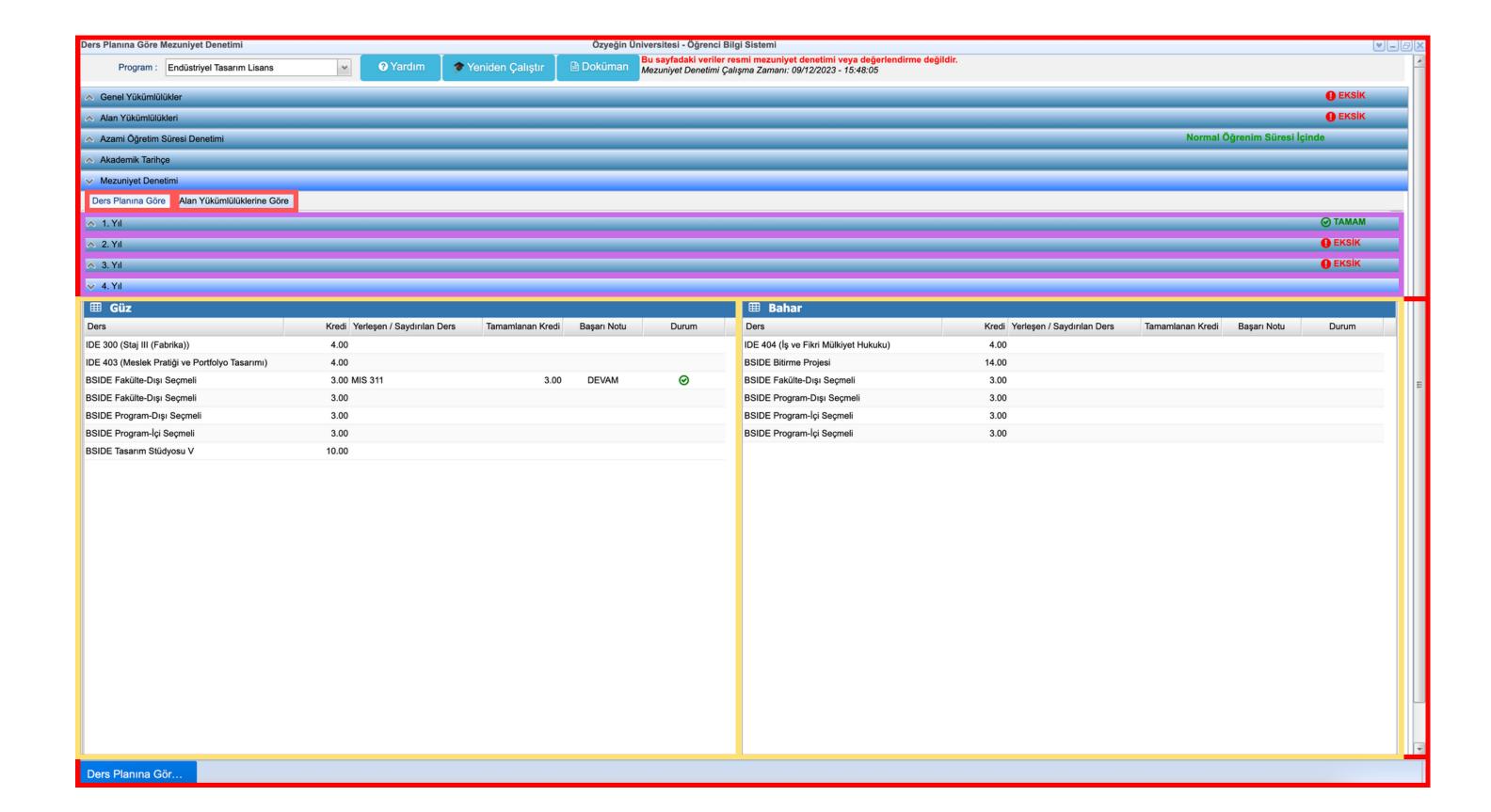


**Navigation Bar**: At the top, there is a horizontal bar with various clickable items, such as tabs or buttons, for navigation. This is typically called a navigation bar or header.

Accordion Menu: On the left side, there are menu items that can be expanded and collapsed. This is known as an accordion menu, which is useful for keeping the interface uncluttered while still allowing access to a lot of information.

Tabs for Semesters: The central area of the interface has tabs labeled "Güz" (Fall) and "Bahar" (Spring), which are used to switch between the courses offered or taken in different semesters.

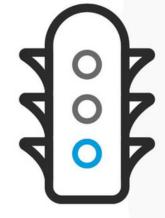
Status Indicators: Within the tables, there are circular icons next to each course that indicate the status - a checkmark for completion ("TAMAM") and an exclamation mark for courses that are either currently in progress or have some kind of issue ("EKSİK").



### Heuretics

# 10 Usability Heuristics





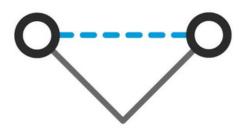
Visibility of System Status



Recognition Rather than Recall



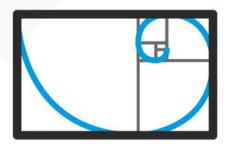
Match Between System & the Real World



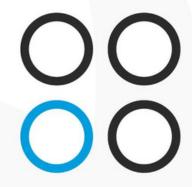
Flexibility & Efficiency of Use



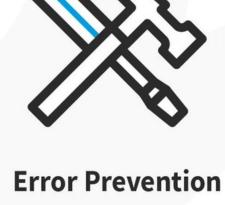
User Control & Freedom

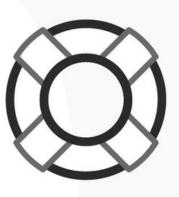


Aesthetic & Minimalist Design

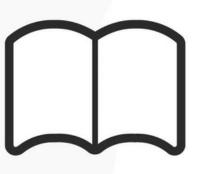


**Consistency & Standards** 



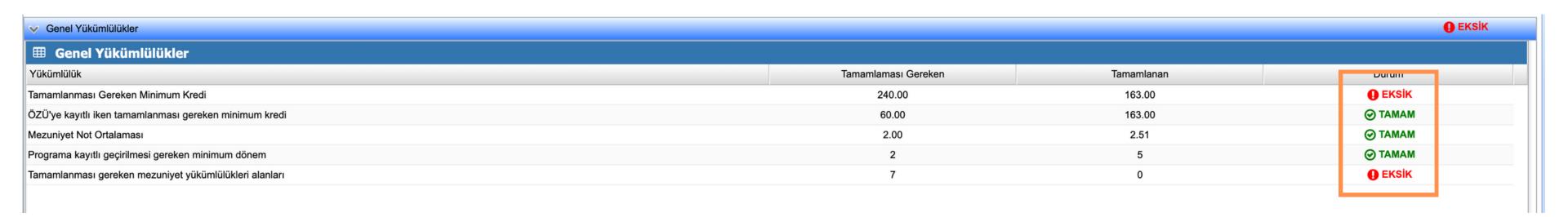


Help Users Recognize, Diagnose & Recover from Errors



Help & Documentation

### **Visibility of System Status**



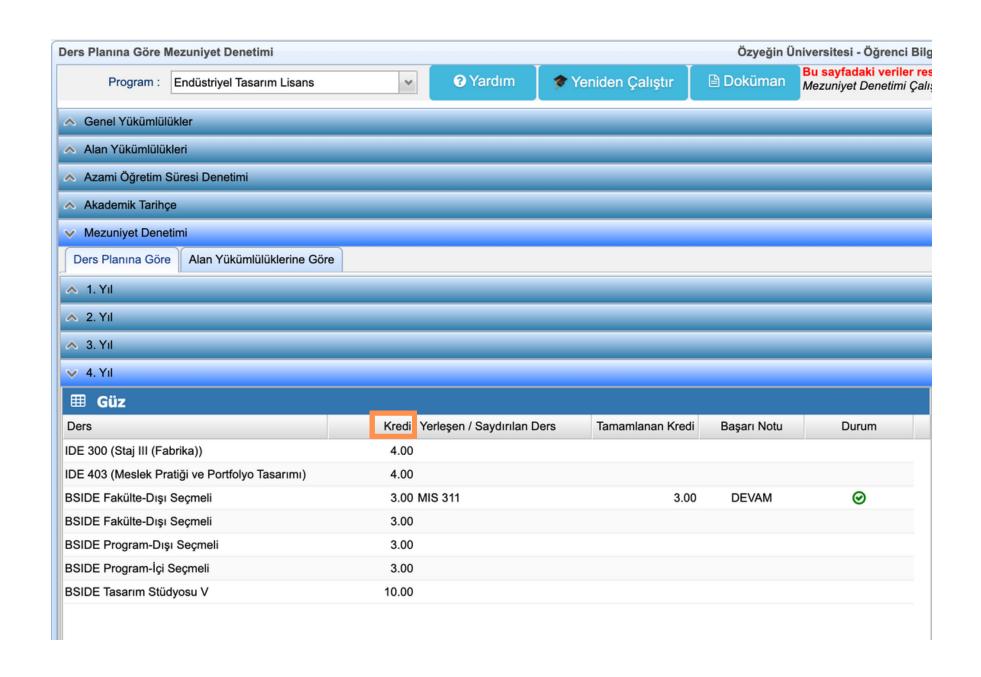


The color coding (red for "EKSİK" and green for "TAMAM") provides immediate feedback on the status of graduation requirements, making it clear which criteria have been met and which have not.

The system provides feedback after initiating actions, like sending a graduation audit request. However, it is not clear how progress is communicated in real-time, which could be improved for better visibility.

**Status Indicators**: Within the tables, there are circular icons next to each course that indicate the status - a checkmark for completion ("TAMAM") and an exclamation mark for courses that are either currently in progress or have some kind of issue ("EKSİK").

### Match Between System and the Real World

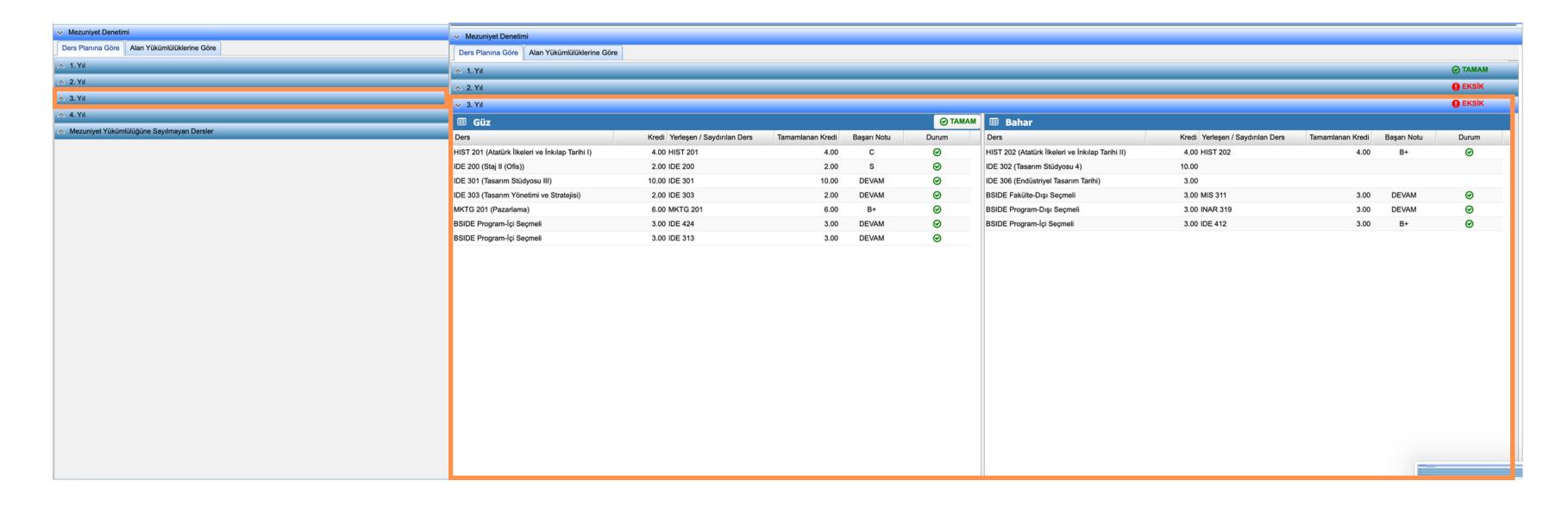


The use of academic terms like "Kredi" (Credits), "Mezuniyet Not Ortalaması" (Graduation GPA), and "Dönem" (Semester) match the real-world context of the university system.

The UI uses technical terminology such as "credits," "status," and "mandatory courses," which seems appropriate for its target audience of university students and staff.

It could be more user-friendly if there were explanations or tooltips for less obvious terms.

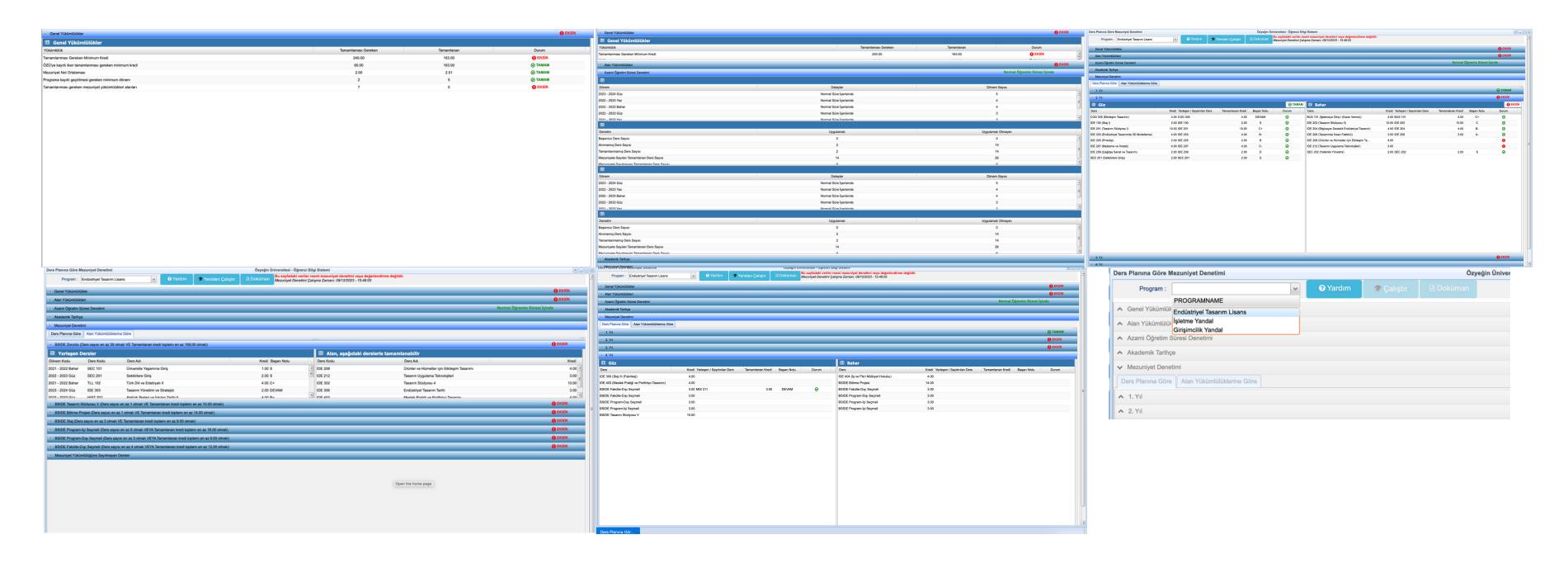
### **User Control and Freedom**



The **navigational tabs** and **drop-down menus** at the top of each page provide a sense of control, allowing users to navigate different sections freely.

There doesn't appear to be an easy way to **undo actions** or navigate back to previous screens, which could be an issue if users make a mistake.

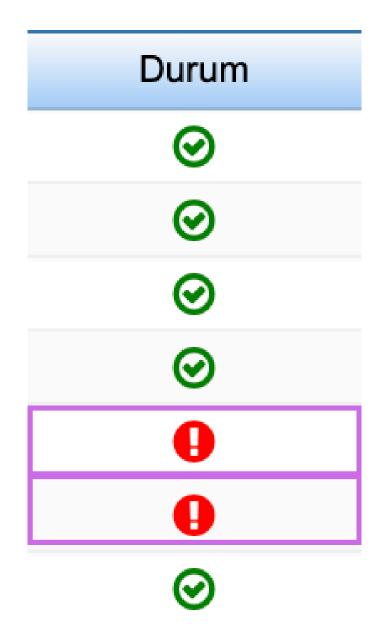
### **Consistency and Standards**

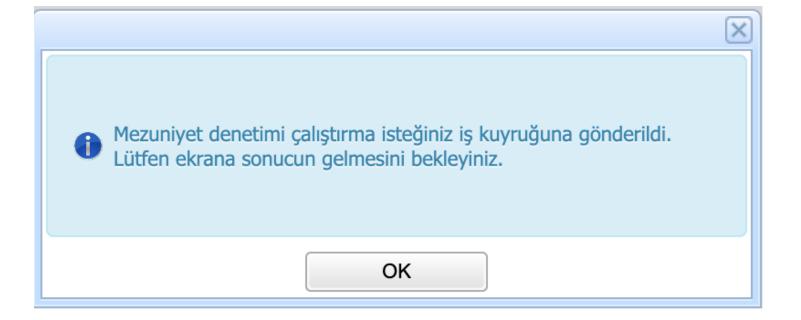


The consistent use of **color coding** across different pages helps users understand the completion status of various tasks without having to learn new indicators.

The UI design is consistent across different screens, using the same color codes and **layout** for course statuses. This should help users not to get confused when navigating different parts of the system.

### **Error Prevention????**

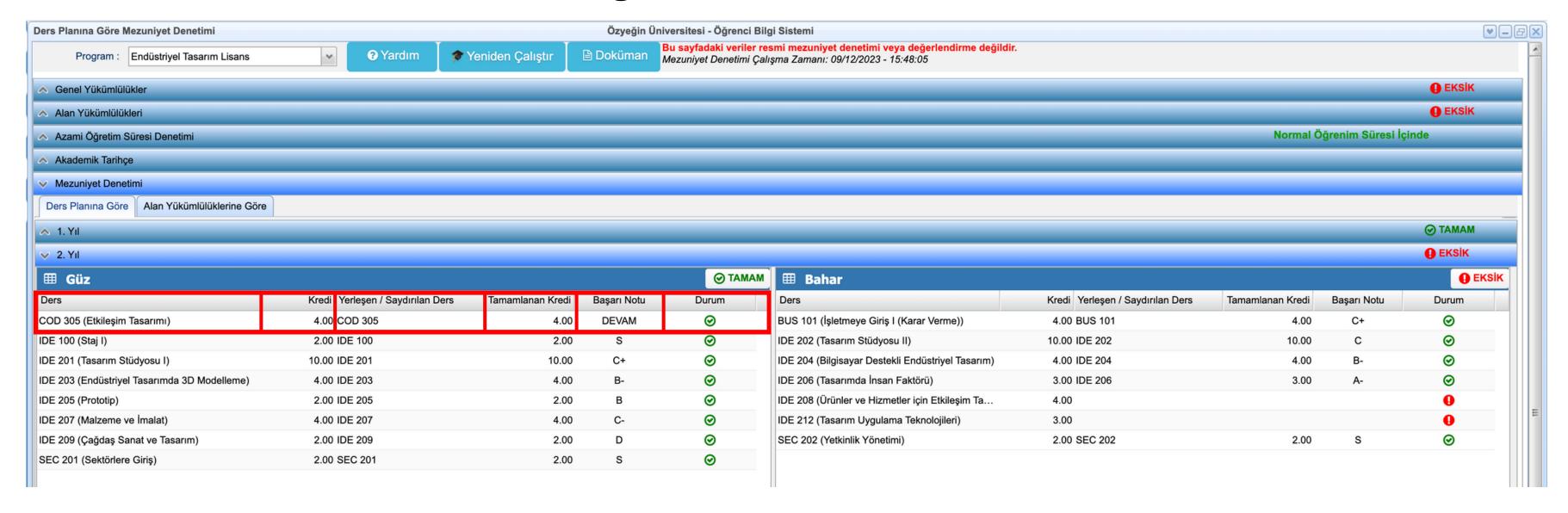




In the course completion lists, courses that have not been completed or are in progress are clearly indicated, which helps prevent the error of assuming completion.

Error messages are present, which is good. However, the system could improve by preventing errors in the first place, such as validating inputs before submission.

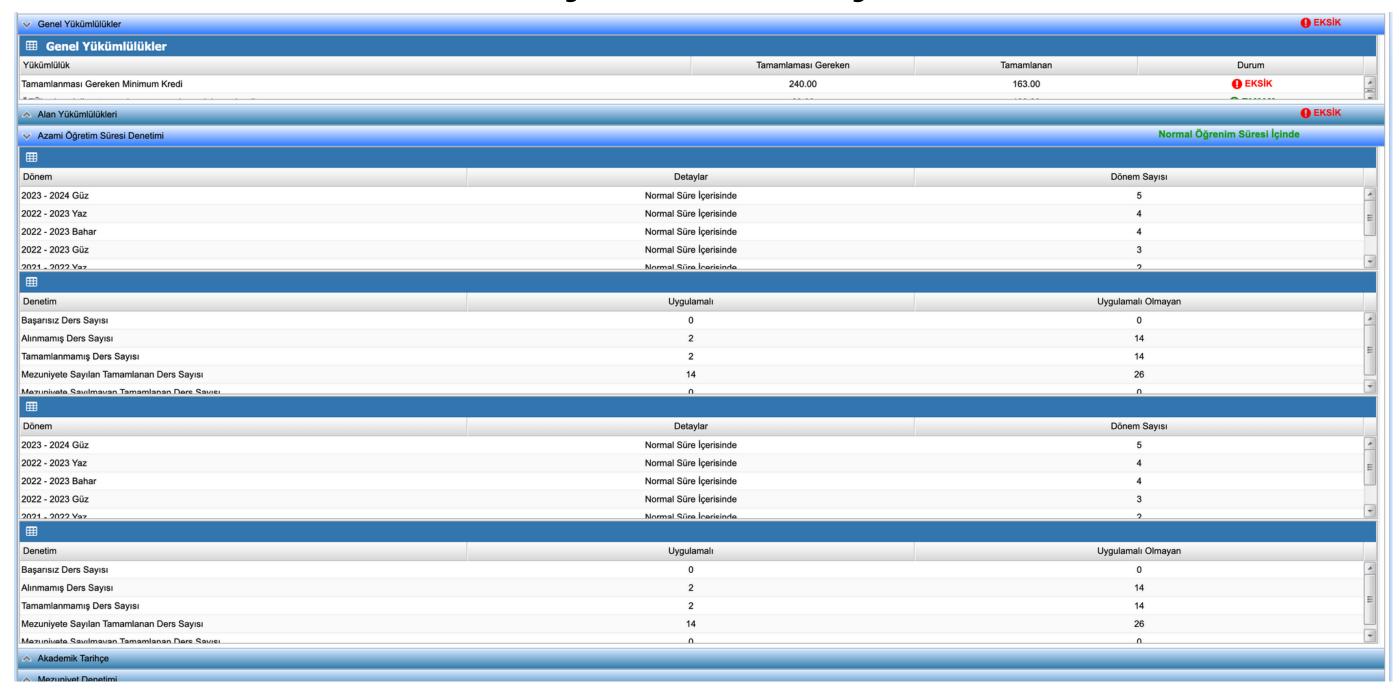
### **Recognition Rather Than Recall**



Information like the semester and course names are displayed directly next to the status indicators, so users don't have to recall information from memory.

The system seems to require users to remember information from one part of the interface to another, such as course codes and their corresponding titles. Integrating more contextual information could reduce the cognitive load.

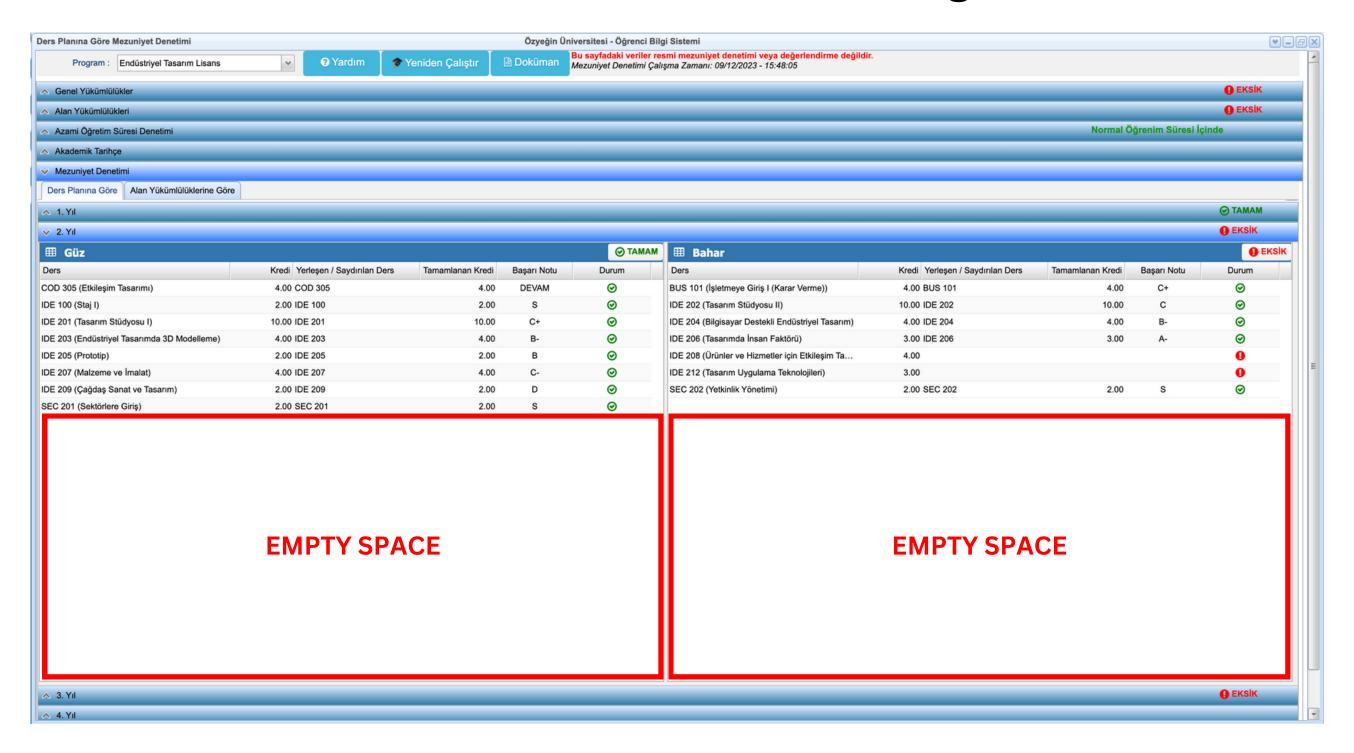
### Flexibility and Efficiency of Use



The layout of tables and lists allows both novice and experienced users to scan and find the relevant information efficiently.

There are no visible "accelerators" or shortcuts that could speed up frequent tasks for expert users, such as keyboard shortcuts or quick navigation links.

### **Aesthetic and Minimalist Design**

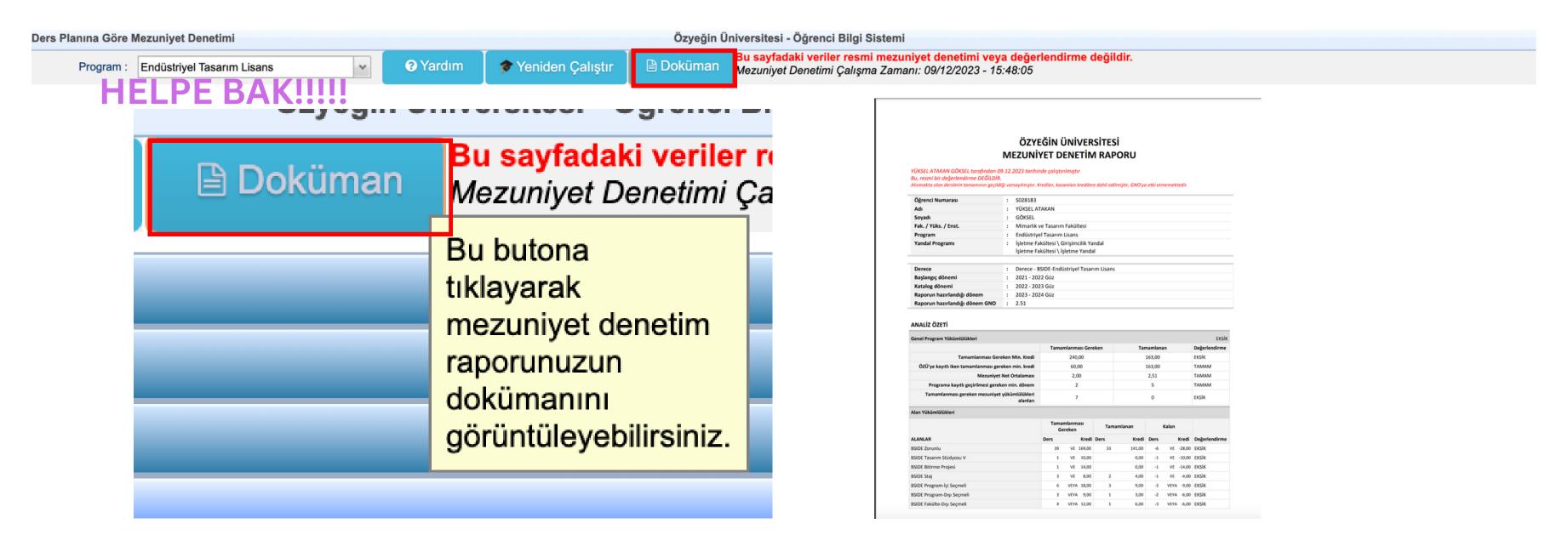


The UI's simple and clean layout avoids unnecessary information that could clutter the view and distract from the essential content.

The design is quite minimalistic, but there are large areas of unused space and some elements seem to be misaligned, which may not contribute positively to the aesthetic or the efficient use of space.

# Help Users Recognize, Diagnose, and Recover from Errors Error messages in pop-ups communicate in plain language, helping users recognize and understand the errors. The error pop-ups do communicate in plain language, but they might not offer enough information to help diagnose and recover from errors without additional support.

### **Help and Documentation**



While there is not much visible in terms of help or documentation, the use of common academic terms suggests that the system assumes a certain level of familiarity, which could reduce the need for additional help.

It's unclear if there is any help or documentation available for users who are struggling to understand the interface. Including help buttons or a FAQ section could be beneficial.

## **Errors**

### **Lack of Error Prevention**

### Validation: See the error straight away

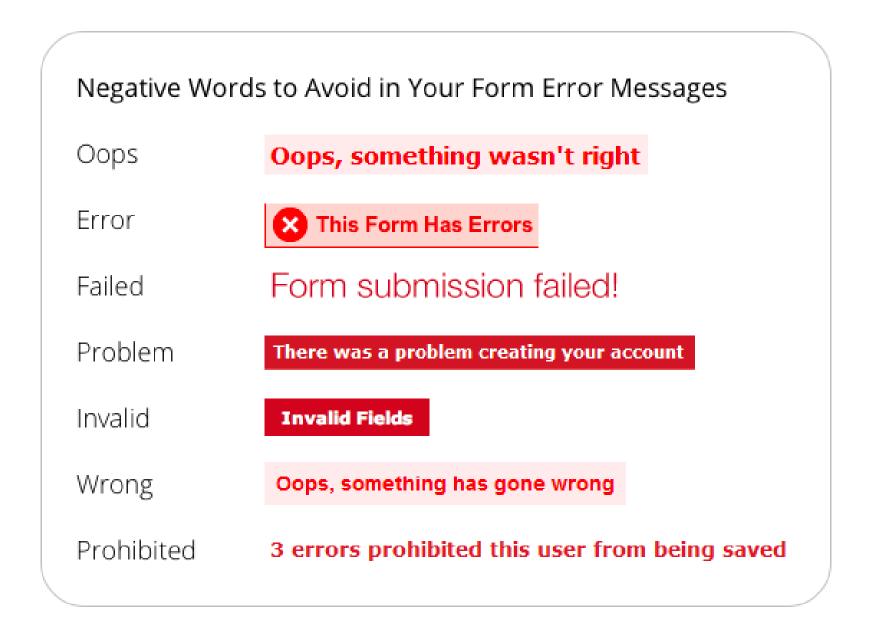
Sign up for one of our monthly newsletters. With new recipes, baking tips and special deals on baking accessories.
email name@email
I That doesn't look like an email address. Is it missing .com or similar at the end?
Given name
Which newsletter would you like?
Recipes
☐ Baking tips
☐ New product announcements
Sign up! Clear form

### See the error

Sign up for one of our monthly newsletters. With new recipes, baking tips and special deals on baking accessories.
email
Given name
Which newsletter would you like?
Please select a newsletter before signing up
Recipes
☐ Baking tips
□ New product announcements
Sign up! Clear form

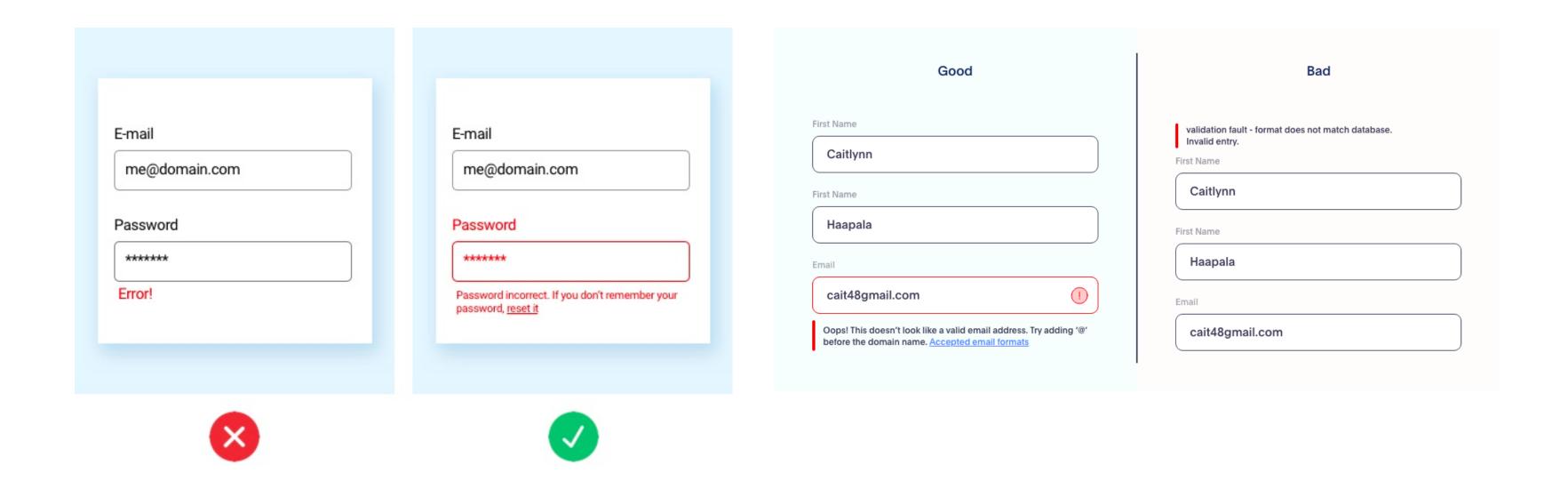
There's no visible mechanism to prevent users from proceeding without completing required fields or to warn them before submitting incomplete or incorrect information.

### **Insufficient Feedback**



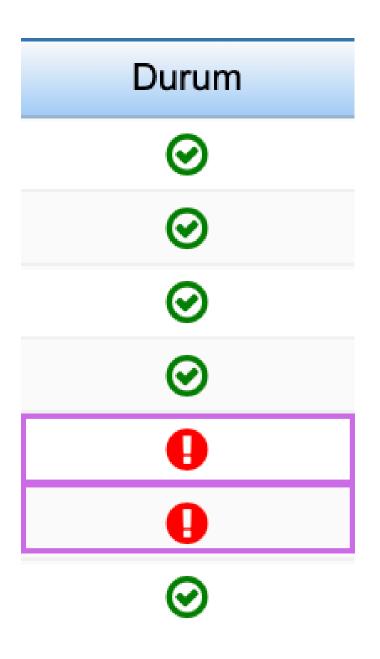
After performing an action, such as submitting a form, there's limited feedback to the user about the success or failure of the action.

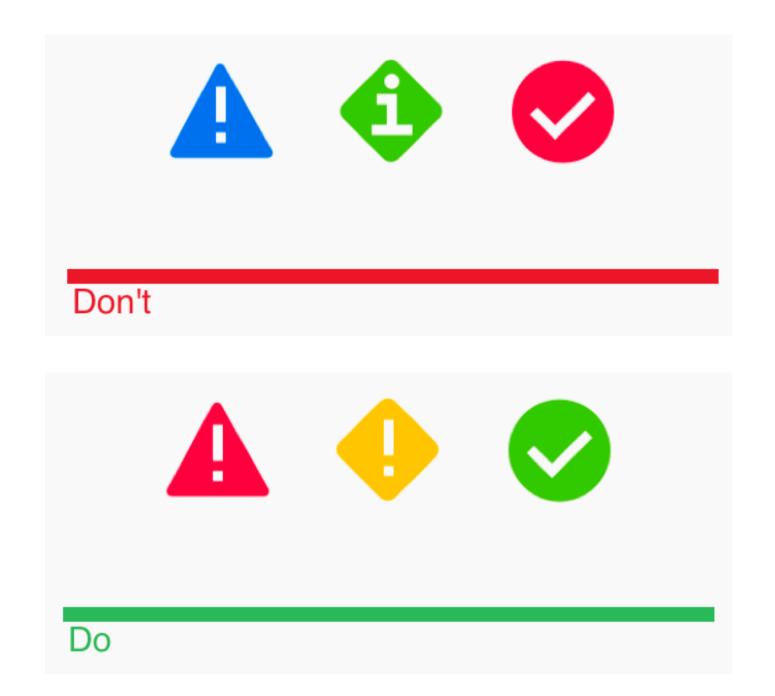
### **Inconsistent Error Messaging**



The use of "EKSİK" is consistent, but it's not clear what the user needs to do to rectify these deficiencies. Which course to take next semester or for the electives there is no list of courses that a student can checkout easily from SIS itself. There is no indication of whether the term refers to missing information, unmet requirements, or something else.

### **Ambiguous Status Indicators**





The color coding (red for "EKSİK," green for "TAMAM") is intuitive to some extent, but the absence of a legend or tooltip may confuse new users or those with color vision deficiencies.

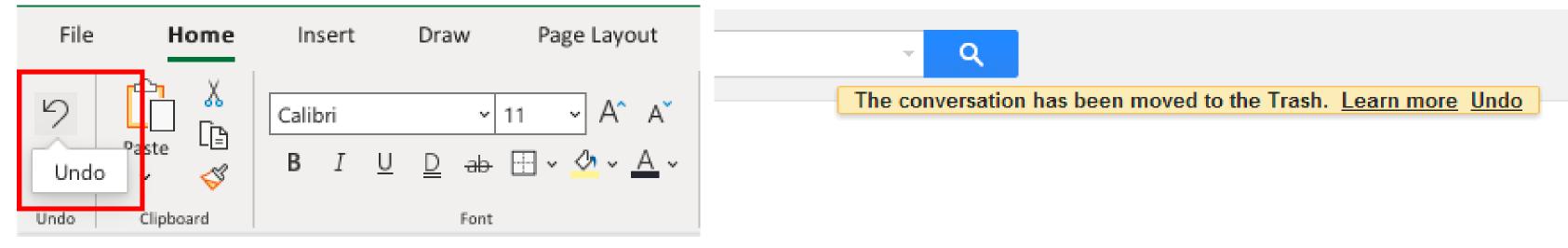
### **Overloaded Information**



Some tables are dense with numerical data and status indicators, which can overwhelm the user and obscure the action items.

When you open all of the accordion menus at once the screen gets flooded with too much information and there is no way to filter out the unwanted information other than closing a accordion menus.

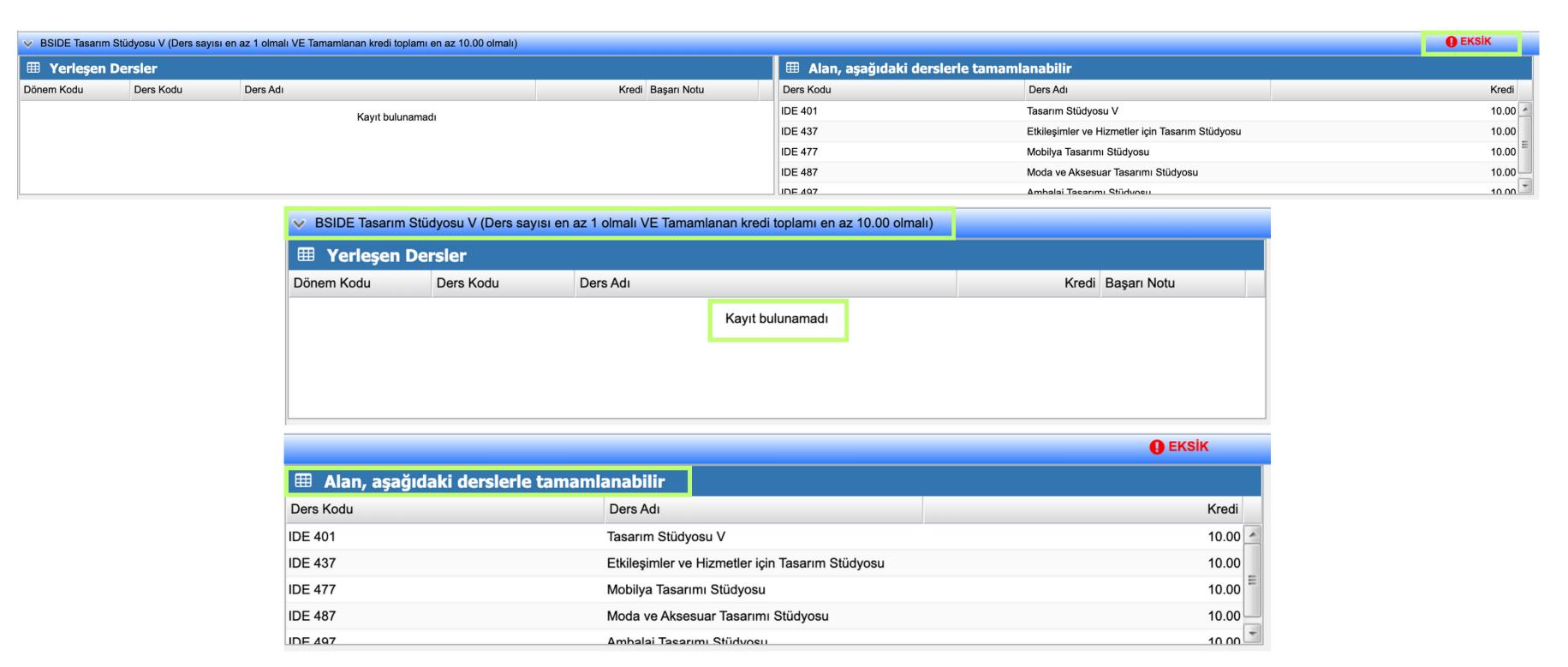
### **Errors- No Undo Functionality**



Examples of Undo Functions in various apps and web

There is no visible option for users to undo an action or revert a change if they make a mistake, which can lead to frustration.

### **Errors- Lack of Guidance for Correction**



When a user sees that something is "EKSİK," there is guidance or a link to where they can go to update or correct the missing element.

For this instance, the missing credits from "BSIDE Tasarım Stüdyosu V, we can see that courses on the right tab can be taken in order to fulfill the task.

### **Errors- Inadequate Help Features**

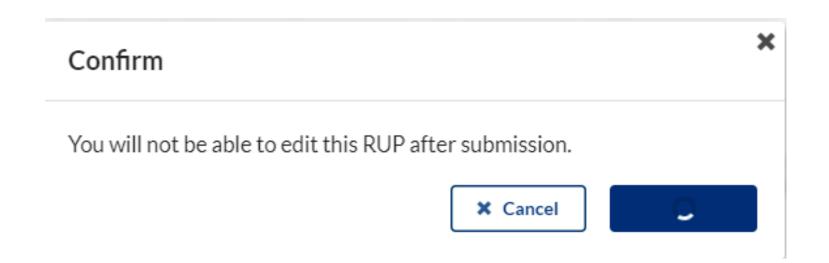
Ders	Kredi	Yerleşen / Saydırılan Ders	Tamamlanan Kredi	Başarı Notu	Durum
IDE 300 (Staj III (Fabrika))	4.00				
IDE 403 (Meslek Pratiği ve Portfolyo Tasarımı)	4.00				
BSIDE Fakülte-Dışı Seçmeli	3.00	MIS 311	3.00	DEVAM	<b>②</b>
SIDE Fakülte-Dışı Seçmeli	3.00				
BSIDE Program-Dışı Seçmeli	3.00				
BSIDE Program-İçi Seçmeli	3.00				
BSIDE Tasarım Stüdyosu V	10.00				

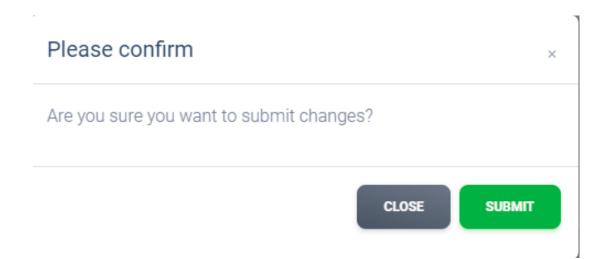
The interface does not prominently offer help features or documentation for users who may not understand how to interpret or act upon the information presented.

Before, OzuSIS did provide a list of courses that can be taken as a credit to fulfill the requirements in a much better way.

When you click on the "BSIDE Fakülte-Dışı Seçmeli" for example, a list of courses pops up screen and shows which courses you are eligible to take for that specific credit such as Non-Faculty, Program or Non-Program elective lists. It was a better way for the students to see how can they manage their future course programs rather than searching for the classes one by one.

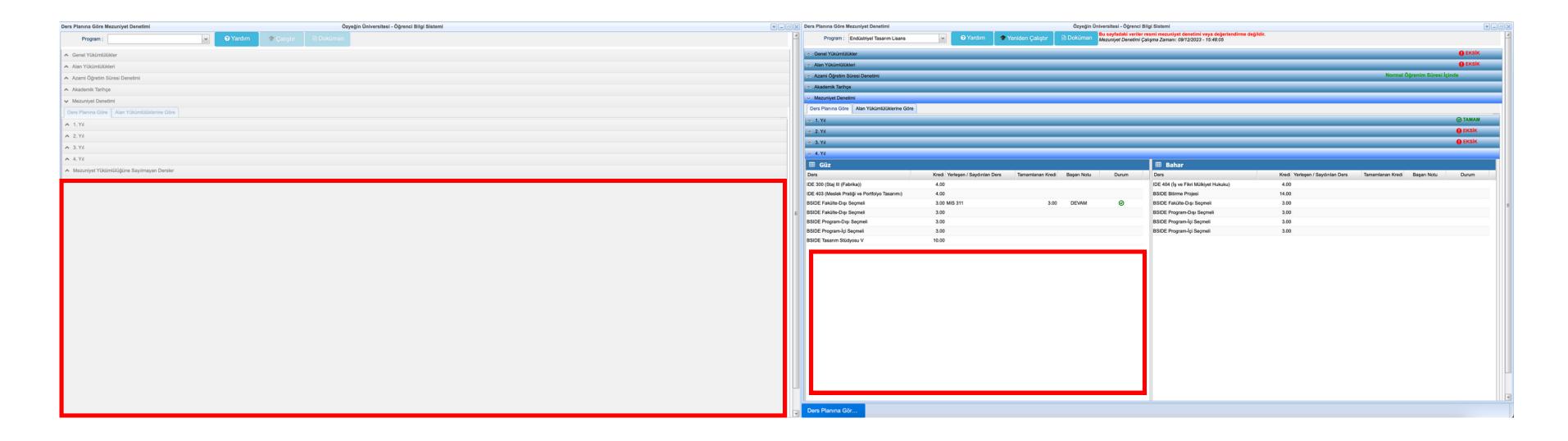
### **Errors- No Confirmation Before Submission**





In the screenshots where a user can submit data, there's no confirmation dialog to ensure that the user intends to perform the submission, leading to potential accidental submissions.

### **Errors-Ineffective Use of Space**



There are large empty areas in the UI, which do not contribute information and might be better used for help text, instructions, or other contextual aids.

Thank you!