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Fall 2024  
CS319-1  
Deliverable 2

## **Non-functional Requirements:**

### **Performance:**

- a) The maximum server response time is 3 seconds for each query or page load, and the response time is 1 seconds for any action response on an Internet connection with average speed of around 25mbps.

### **Availability:**

- a) The system must be available 99.9% of the time, excluding scheduled maintenance periods, to ensure reliability for users, including students, counselors, and internal staff. This level of availability can be monitored through server uptime tracking and logging tools.
- b) The application must support session continuity, allowing users to automatically resume their previous session if they reconnect within 10 seconds of a network disruption or application crash.

### **Data Security:**

- a) Access to personal data should be role-based, and only authorized personnel, for example, the communication office director and coordinator, can view sensitive information.
- b) Encryption of all sensitive data such as contact information and payroll details.

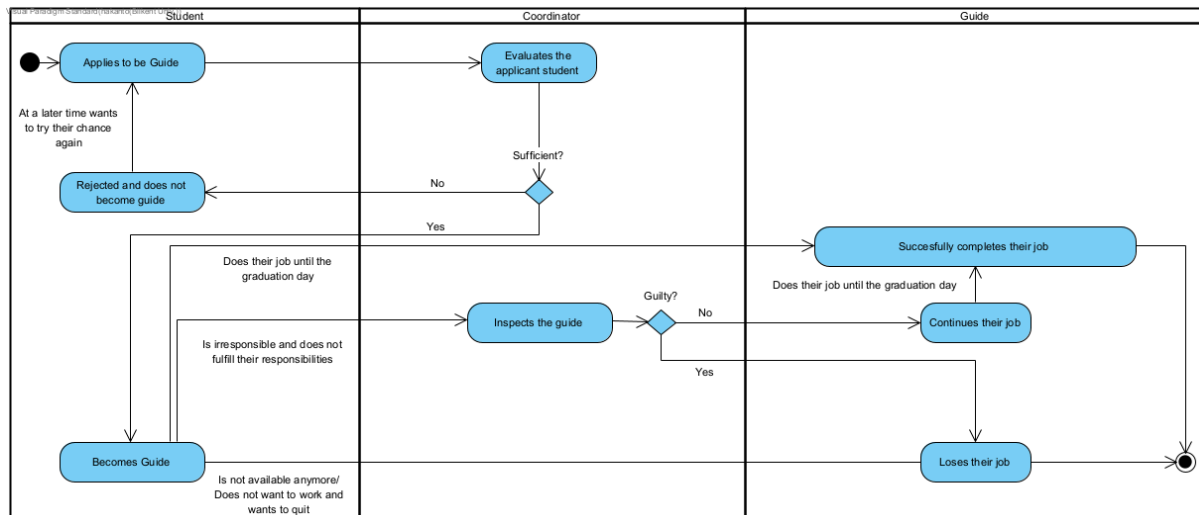
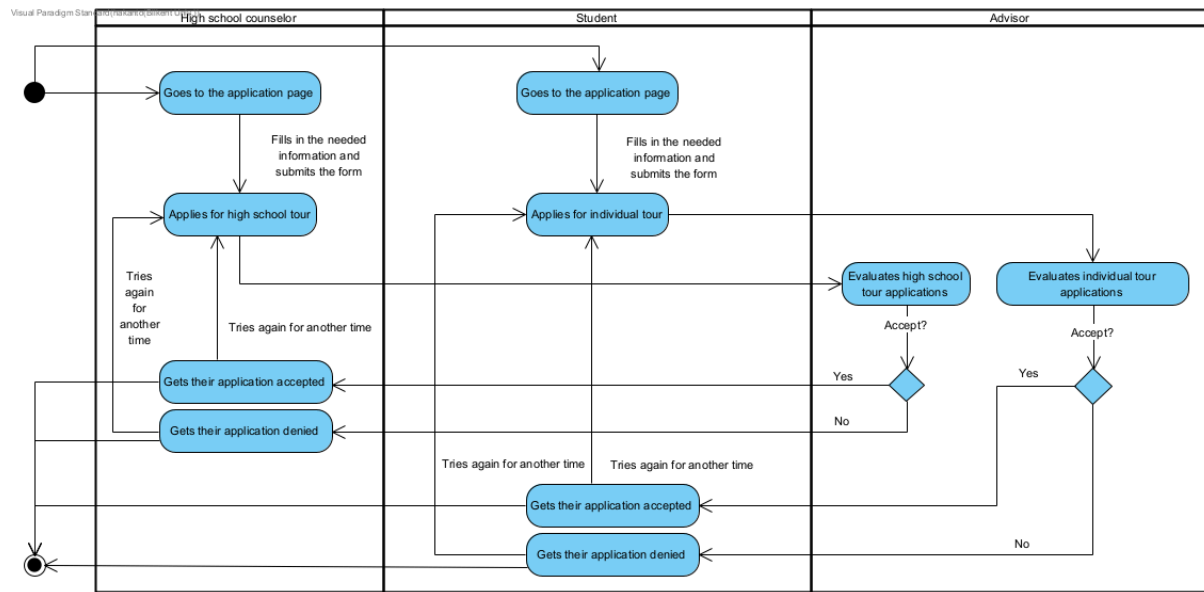
### **Usability:**

- a) For ease of use the process of appointment application must be achievable within 12 clicks once on the appointment page.
- b) The application must be fully responsive, ensuring all pages and interactive elements render correctly on screens of varying sizes, including mobile devices, tablets, and desktops.

### **Error Handling:**

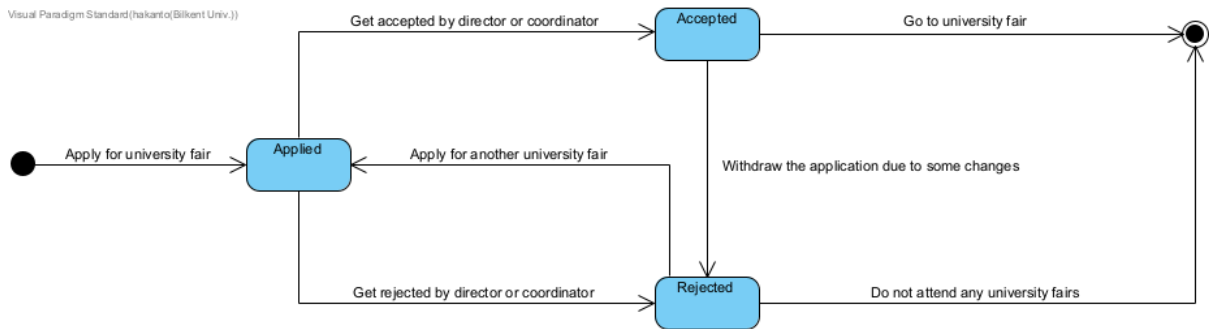
- a) The application must display clear, actionable error messages for any system error encountered, with a user-friendly explanation and a unique error code for each error type.

## Activity Diagrams:

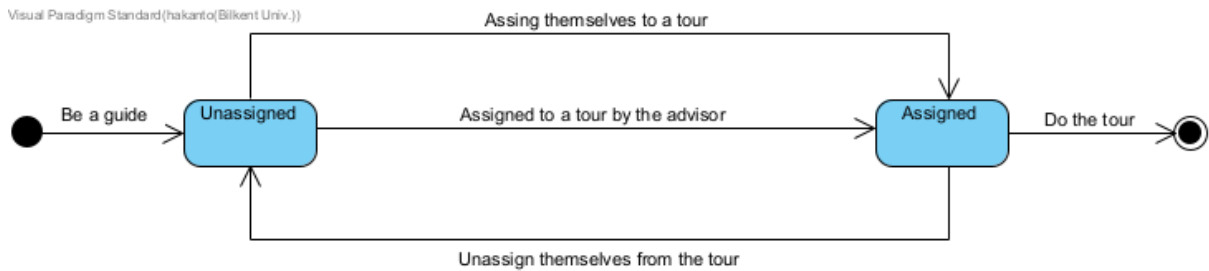


## State Diagrams:

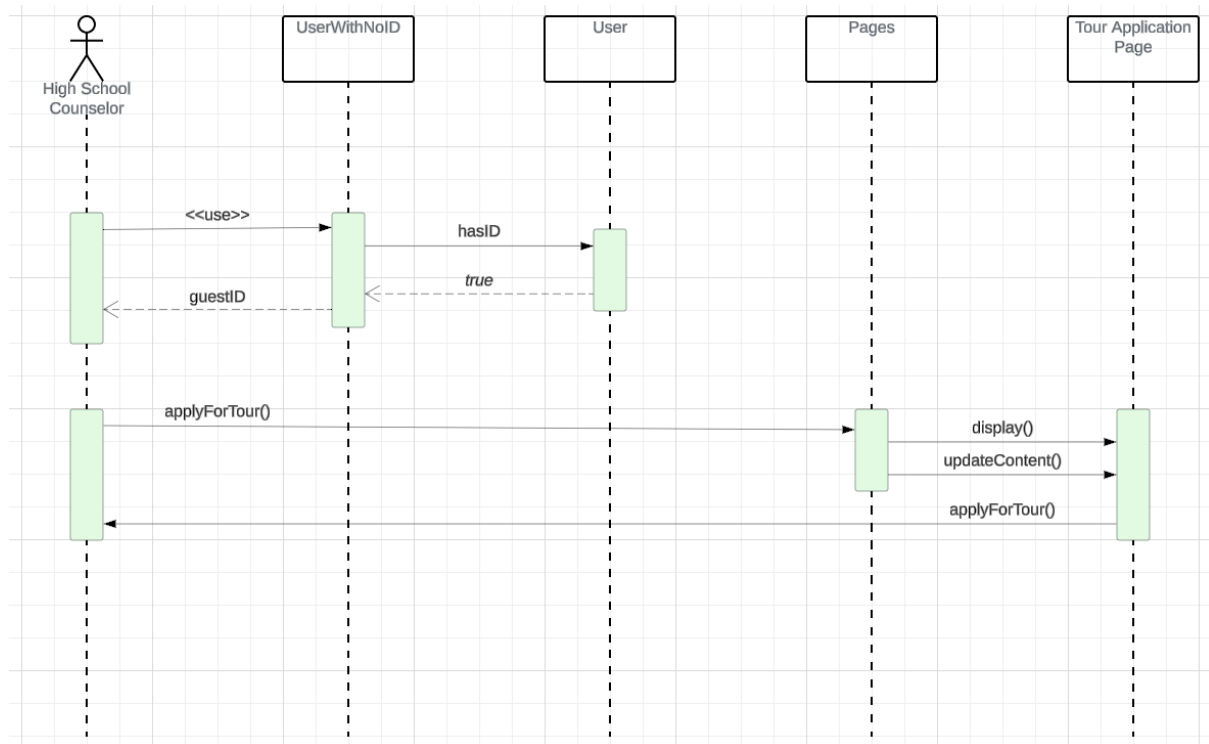
Visual Paradigm Standard(hakanto@Bilkent Univ.)



Visual Paradigm Standard(hakanto@Bilkent Univ.)



## Sequence Diagram:



[https://lucid.app/lucidchart/f18b5b9b-182c-4a40-b409-f50531b29e8e/edit?viewport\\_oc=-480%2C-430%2C2918%2C1435%2C0\\_0&invitationId=inv\\_f8b22bac-409b-41d9-9b97-108e93574200](https://lucid.app/lucidchart/f18b5b9b-182c-4a40-b409-f50531b29e8e/edit?viewport_oc=-480%2C-430%2C2918%2C1435%2C0_0&invitationId=inv_f8b22bac-409b-41d9-9b97-108e93574200)

## Visual Paradigms Standard/Jarkant u (Silksoft Univ.)



## Mockups:

### STARS page:

**Bilkent University**

#### Services

- **Academic Units**  
Courses, offerings, curriculum, staff and catalog
- **Offerings**  
List of courses offered
- **SRS** For continuing students and alumni  
Student Review System
- **AIRS** For instructors  
Academic Information Review System
- **DAIS** For department staff  
Department Academic Information System
- **PREP** For PREP staff  
English Preparatory School Information System
- **ALUMNI** For graduates  
Alumni Information System
- **BILDORM** For continuing students  
Bilkent University Online Dormitory Application
- **GRASS** For graduate school staff  
Graduate Schools System
- **GRADADMIN** For graduate school staff  
Graduate Study Application Management
- **STS**  
Summer Training System
- **IOS**  
Information Office System

#### About STARS Passwords

##### Students & Alumni

If you don't know your STARS password, you can:

- go to your faculty/school, present your student ID card and request a new password

— OR —


- [click here](#) to set a new password using your registered e-mail addresses or mobile phone.

##### Instructors and Staff


If you don't know your STARS / BAIS password [click here](#) to set a new password.

Note that the same password is used for both STARS and BAIS.


## Login page:

**Bilkent University**  
Secure Login Gateway

Login : IOS - Information Office Registration System

Bilkent ID 

Bilkent ID cannot be blank.  
Personnel ID or Student ID number

Password 

Login

If you are having problems logging in, please check the time zone setting on your computer.  
Turkey no longer uses daylight saving time (DST). Your computer time zone setting should be set as **UTC+3**.

Bilkent Computer Center uses this common login gateway page for user authentication. Most Bilkent University online services are accessed through this Secure Login Gateway.  
If you don't know your STARS or BAIS password, please [click here](#).

If you are not personnel or student please follow: [Continue as guest](#)

## Guest dashboard:

**Bilkent Information Office System**  
  
Dashboard  
Apply for tour  
Apply for fair  
  
Settings  
  
Help

Welcome To IOS

### Apply High School Tour

Name-Surname:

Capacity:

City/High School: 

Select

Select

Group Head:

Contact Phone:

Role of the Group Head:

Contact e-mail:

Additional notes:

October 26, 2024

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Select Time

8.30-9.30	2 applications inbound	<input type="checkbox"/>
9.30-10.30		<input checked="" type="checkbox"/>
10.30-11.30	1 application inbound	<input checked="" type="checkbox"/>
11.30-12.30		<input type="checkbox"/>

Submit



## Guide Dashboard:

Bilkent Information Office System

Dashboard

View Puantaj Page

Applications

Fair Applications

Tour Applications

Responsible Advisors

Assign Me Tour

Settings

Help

Log out

Welcome Back, 'Guide Name'

Monthly Schedule

Daily Schedule

time interval	
8.30-9.30	İzmir Fen Lisesi Campus Tour
9.30-10.30	
10.30-11.30	
11.30-12.30	
12.30-13.30	Lunch Break
13.30-14.30	
14.30-15.30	

October 25, 2024

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## Advisor Dashboard:

Bilkent Information Office System

Dashboard

View Puantaj Page

Applications

Fair Applications

Tour Applications

Settings

Help

Log out

Welcome Back, 'Advisor Name'

Monthly Schedule

Daily Schedule

Edit Schedule

time interval	
8.30-9.30	İzmir Fen Lisesi Campus Tour - 'Guide Name'
9.30-10.30	
10.30-11.30	
11.30-12.30	
12.30-13.30	Lunch Break
13.30-14.30	Ankara Gazi Lisesi Fair Start
14.30-15.30	

October 25, 2024

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## Coordinator dashboard:

Bilkent Information Office System

Dashboard

Database

View Puantaj Page

Applications

Fair Applications

Tour Applications

Guide List

Settings

Help

Log out

Welcome Back, 'Coordinator Name'

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'Coordinator Name'v

Daily Schedule

Edit Schedule

time interval	
8.30-9.30	İzmir Fen Lisesi Campus Tour
9.30-10.30	
10.30-11.30	
11.30-12.30	
12.30-13.30	Lunch Break
13.30-14.30	Ankara Gazi Lisesi Fair Start
14.30-15.30	

Monthly Schedule

October 25, 2024

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## Director dashboard:

Bilkent Information Office System

Dashboard

Database

View Puantaj Page

Applications

Fair Applications

Tour Applications

Settings

Help

Log out

Welcome Back, Örsan

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Örsan Öрге v

Daily Schedule

time interval	
8.30-9.30	İzmir Fen Lisesi Campus Tour
9.30-10.30	
10.30-11.30	
11.30-12.30	
12.30-13.30	Lunch Break
13.30-14.30	Ankara Gazi Lisesi Fair Start
14.30-15.30	

Monthly Schedule

October 25, 2024

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## High school database:

Bilkent Introductory Office System

Dashboard

Database

View Puantaj Page

Applications

Settings

Help

Contact us

Log out

High schools

2

Örsan Örgü

+ Add High School

> 3.30

Filter by: Prioritization Score

Sort by: Prioritization Score

Name	Prioritization Score	City	Average YKS Ranking	School Capacity	Applied Before
İzmir Fen Lisesi	3.75	İzmir	4	450	✓
Ankara Fen Lisesi	3.67	Ankara	2	456	✓
TED Ankara Koleji	3.66	Ankara	45	820	✓
Trabzon Fen Lisesi	3.61	Trabzon	19	460	
Manisa Fen Lisesi	3.45	Manisa	18	480	

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## High school database (detailed):

Bilkent Introductory Office System

Dashboard

Database

View Puantaj Page

Applications

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High schools

2

Örsan Örgü

+ Add High School

> 3.30

Filter by: Prioritization Score

Sort by: Prioritization Score

★ 3.75

İzmir Fen Lisesi

City: İZMİR	Fair application: 27.04.2018	Counselor name: John Doe
Capacity: 450	Tour application: -	Counselor phone: 0123 456 7890
YKS Ranking: 4	Bilkent Students (ic. Alumni): 346	Counselor mail: John_Doe@example.com

Ankara Fen Lisesi	3.67	Ankara	2	456	✓
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Puantaj page:

Bilkent Information Office System

Dashboard

View Puantaj Page

Applications

Settings

Help

Log out

Welcome Back, 'Advisor Name'

4

'Advisor Name'

Tours Attended (in hours):

8.5

Fairs Attended (in hours):

3

Processed Payroll

173.5 ₺

'Guide Name'

Export as Excel