



CS319 Term Project

Deliverable 2 - Final

CS319 Section 1

Sami Bora Akoğuz 22202184

Ege Ertem 22202433

Can Kütükoğlu 22202619

Kerem Cindaruk 22201907

Ertuğrul Malkoç 22102737

12 November 2024

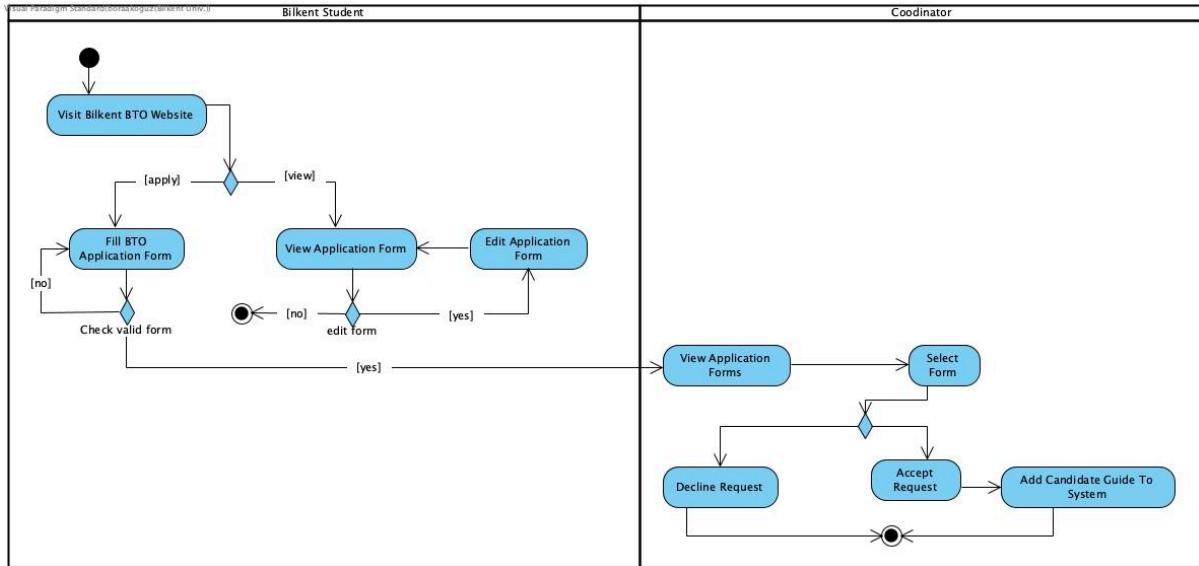
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1. Non-function Requirements (NFR)

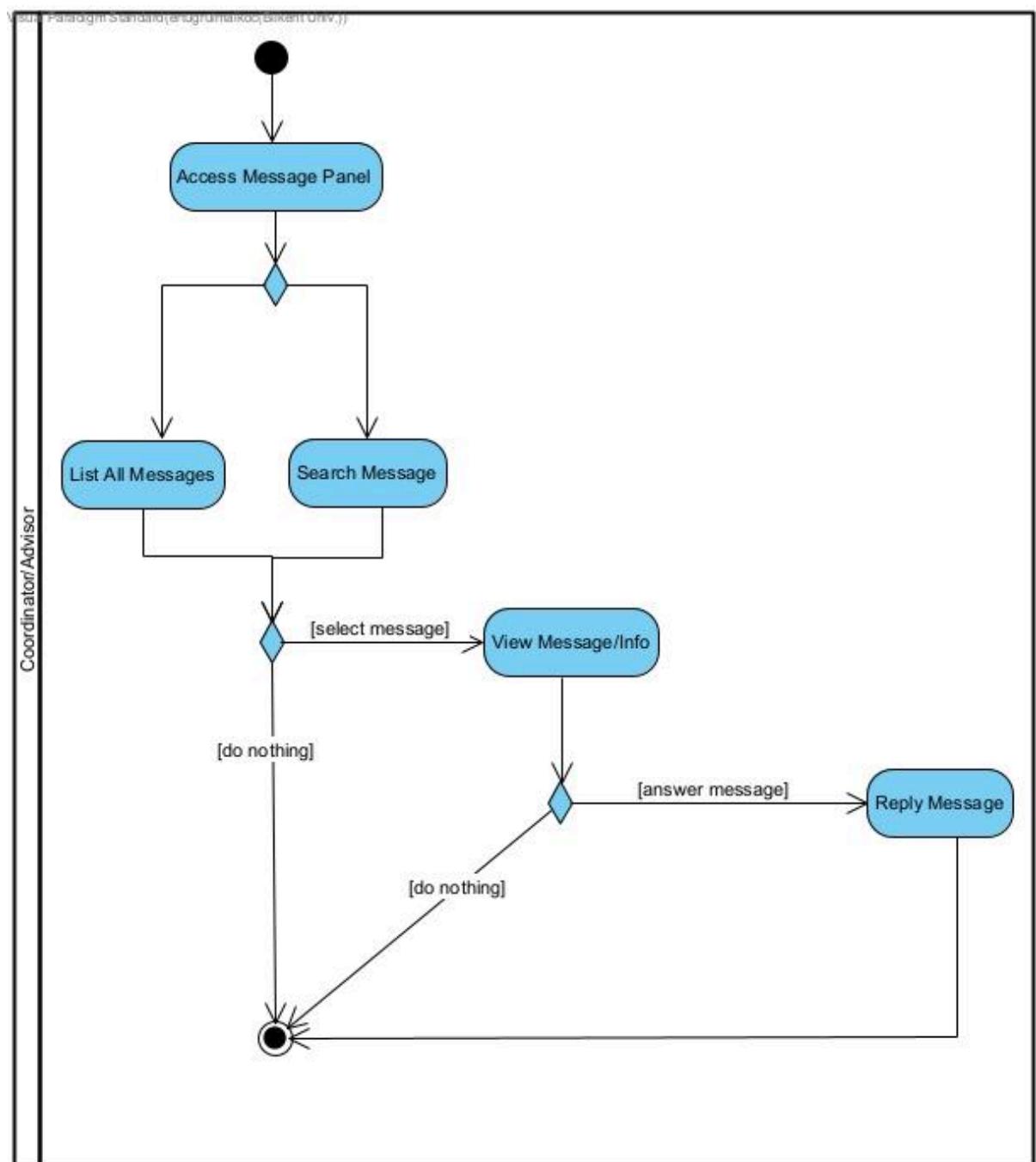
1. The user interface should be responsive and load data from the database in less than 5 seconds
2. The system shouldn't be down for more than an hour as any downtime more than that is going to delay tour logistics.
3. Input errors should be illegal and will be given an error message to the user when an unallowed character (emojis, foreign language letters, etc.) or format (example: a string for a date) is given as an input, for safety and organization of the database.
4. User passwords should be kept as hashes in the database to ensure privacy and satisfy cybersecurity concerns.
5. The users can access the system from desktops, mobile phones, tablets and laptops.
6. The access to the data panel and databases should be permitted to any other users rather than the owner of Bilkent Tanıtım Ofisi.

2. Activity Diagram

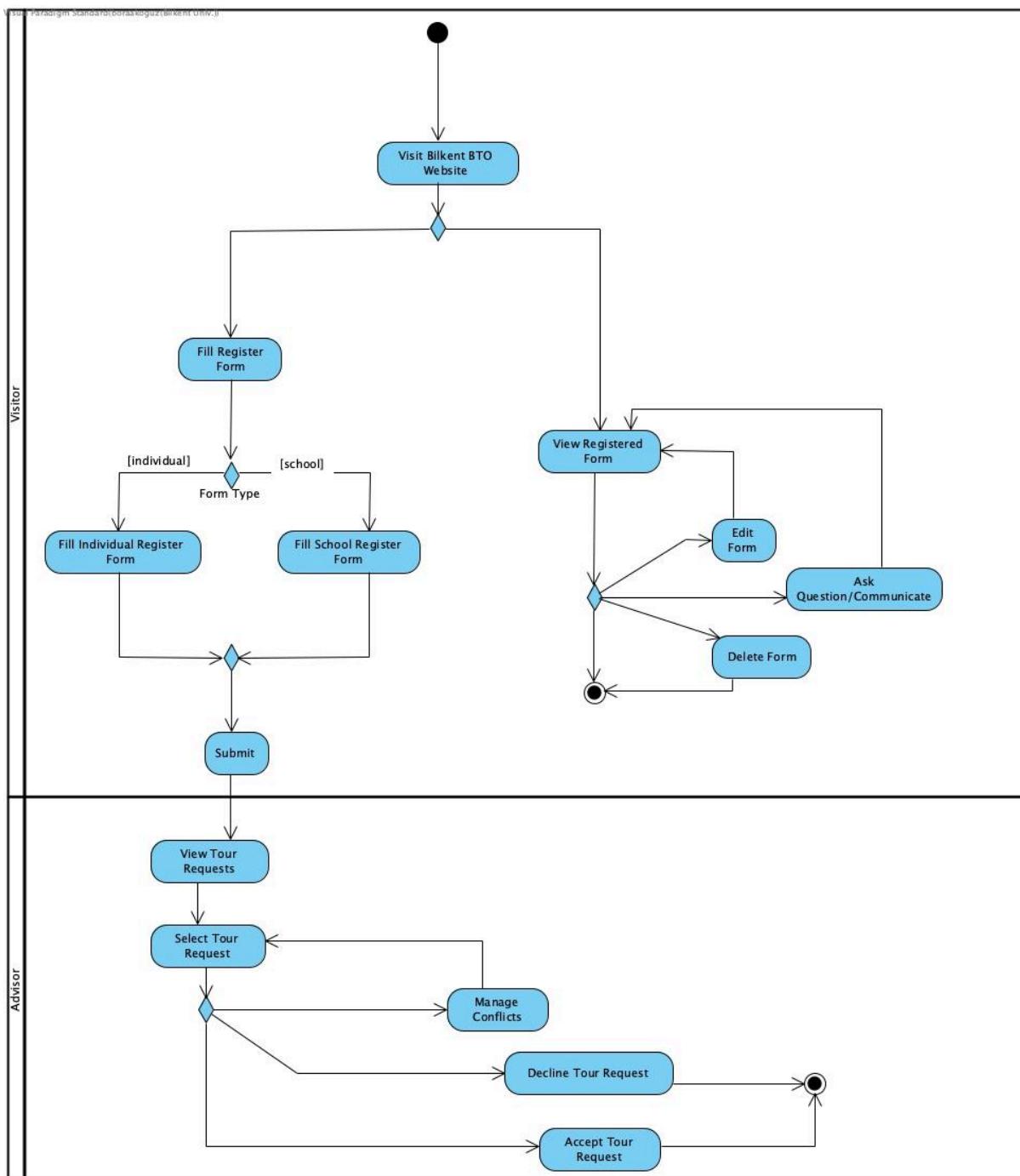
2.1 Guide Application Process



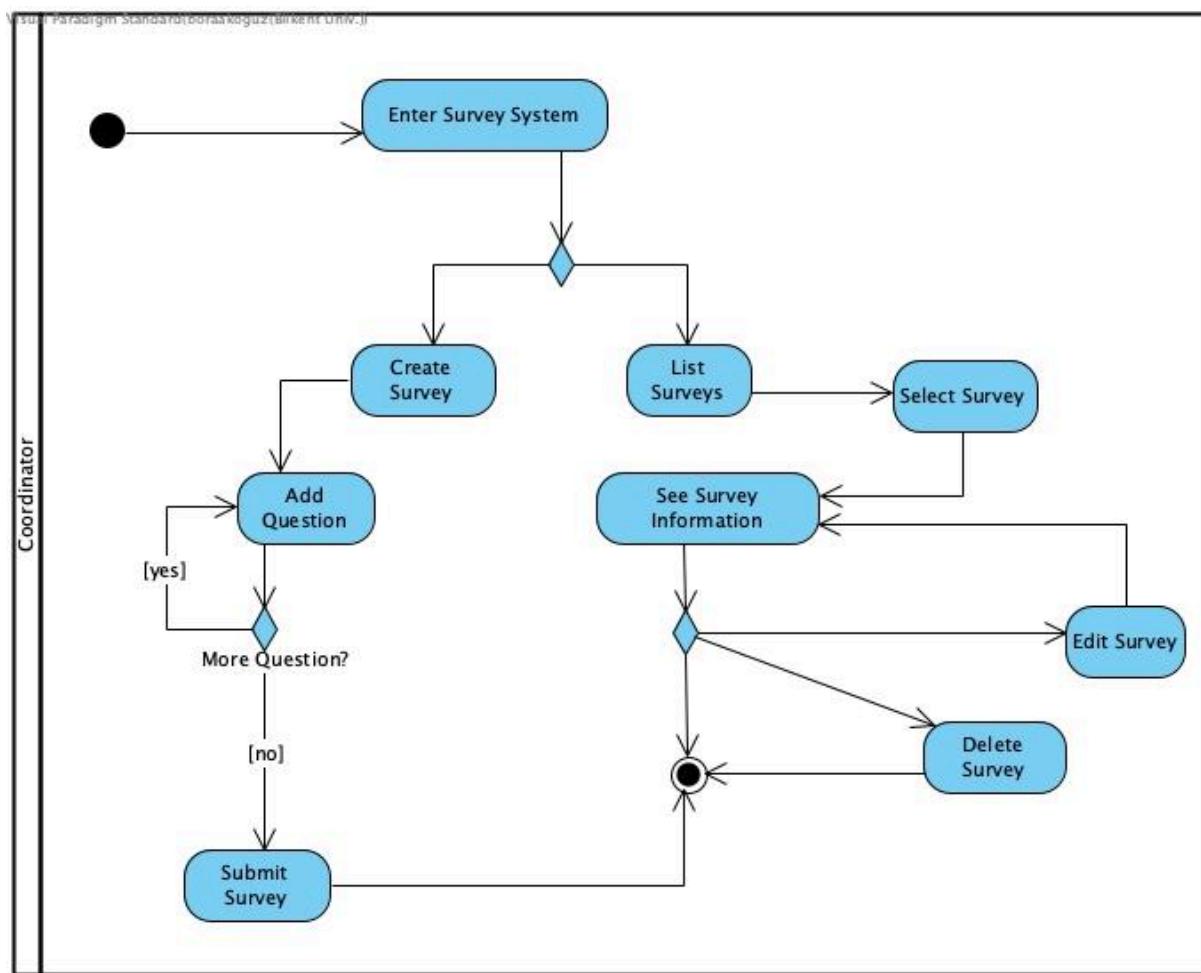
2.2 Messaging System Workflow



2.3 Tour Registration System Workflow

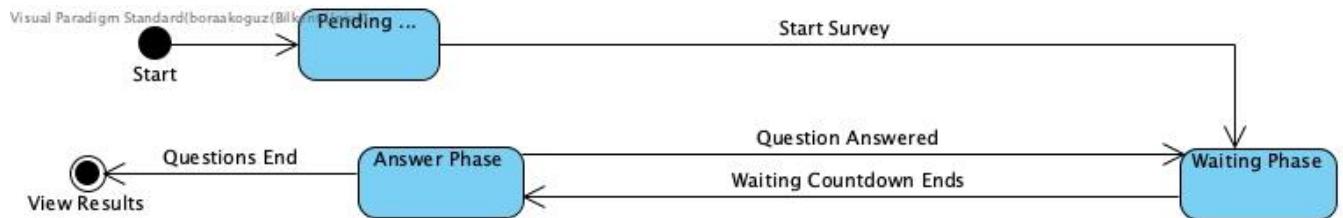


2.4 Survey Submission Process

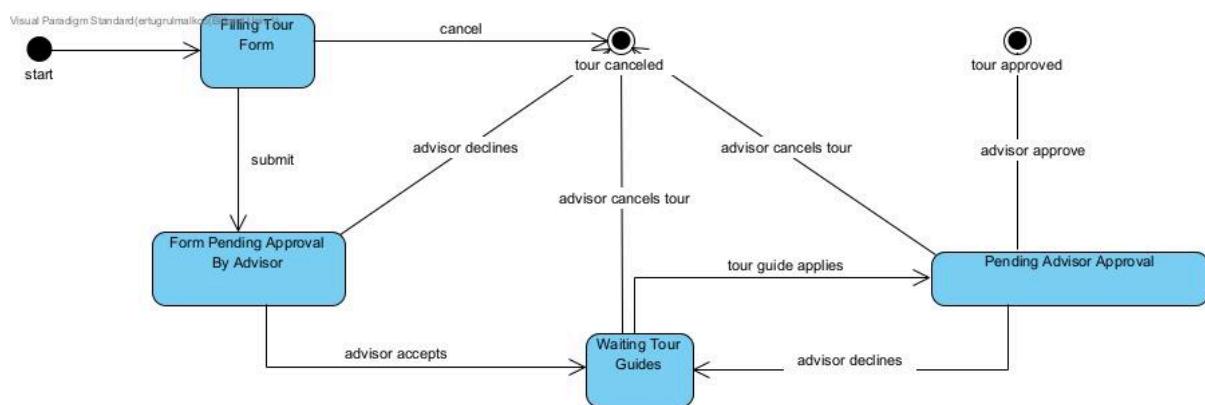


3. State Diagram

3.1 Survey State Diagram

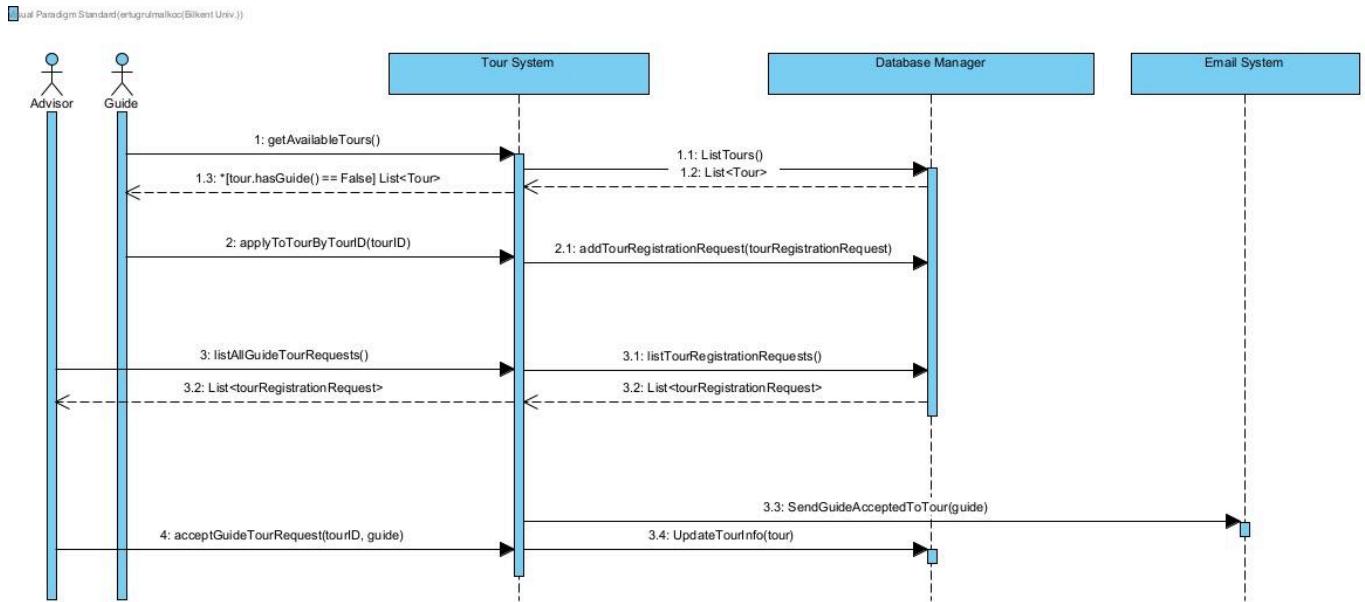


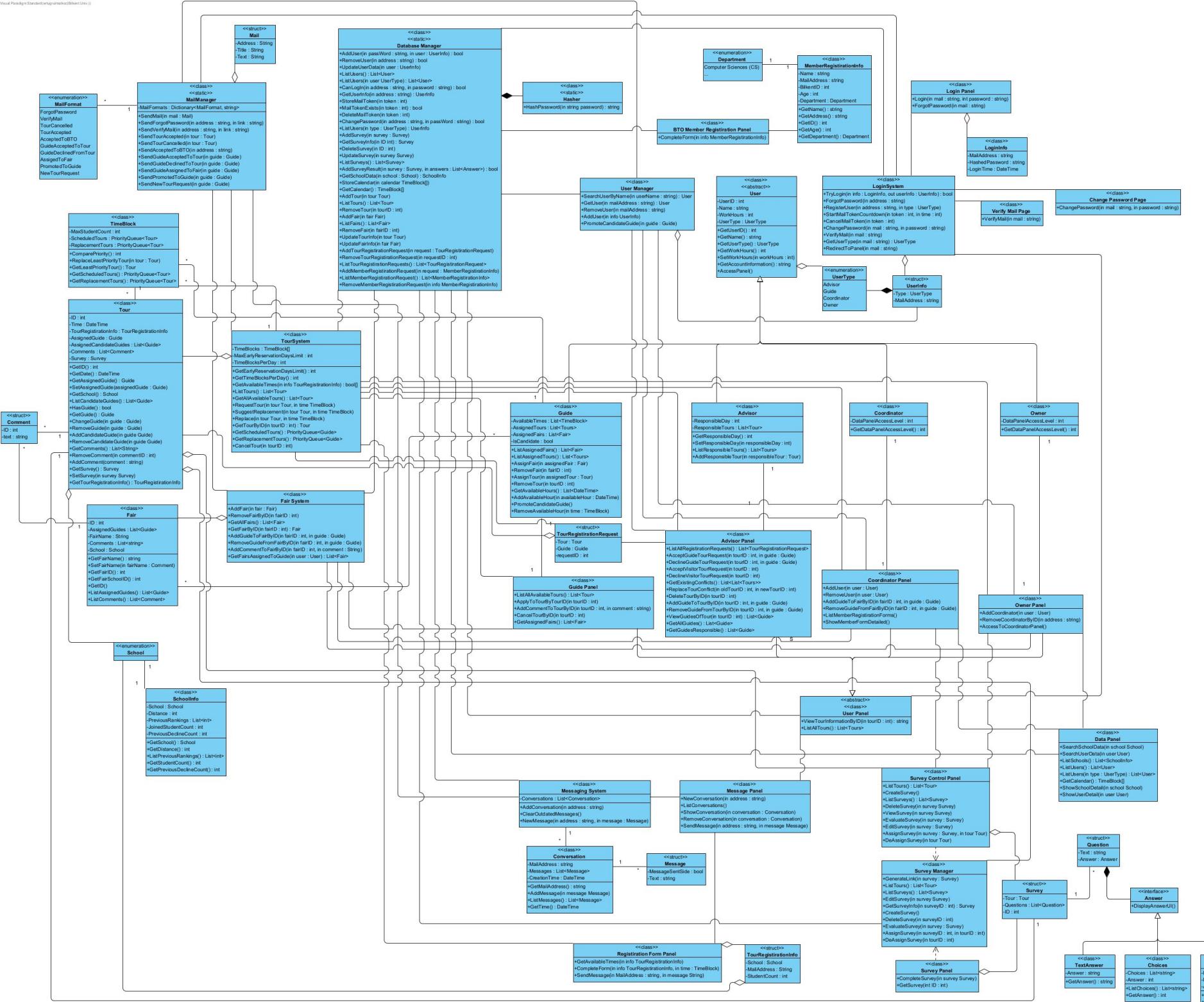
3.2 Tour Approval State Diagram



4. Sequence Diagram

4.1 Tour Guide Application Sequence Diagram





6. Mockups



WELCOME TO BILKENT

[REGISTRATION FORM](#)

[VIEW REGISTRATION](#)



USERNAME

egertem

PASSWORD

LOGIN

Forgot Password?



USERNAME

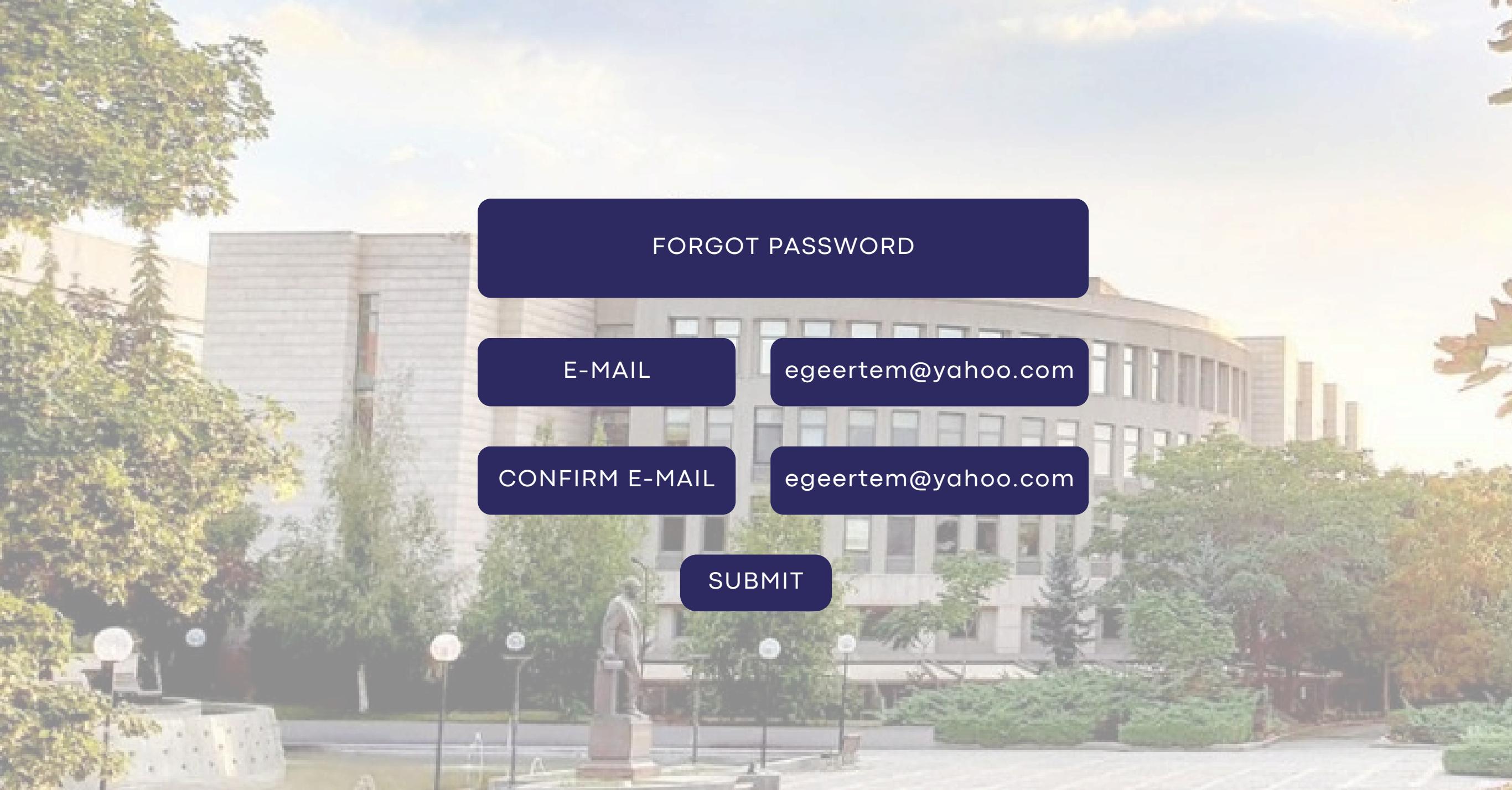
egertem

PASSWORD

LOGIN

INVALID USER OR
PASSWORD

[Forgot Password?](#)



FORGOT PASSWORD

E-MAIL

egeertem@yahoo.com

CONFIRM E-MAIL

egeertem@yahoo.com

SUBMIT

REGISTRATION FORM

SCHOOL REGISTRATION

INDIVIDUAL REGISTRATION

SCHOOL REGISTRATION

City*	Ankara
School Name*	TED Ankara College
Date of Visit*	20.04.2025
Preferred Time of Visit*	11.00
Number of Visitor*	25

Continue



SCHOOL REGISTRATION

City*

School Name*

Date of Visit*

Preferred Time of Visit*

Number of Visitor*

Ankara

TED Ankara College

20.04.2025

11.00

25

Search 

Adana

Adiyaman

Afyonkarahisar

Aksaray



Continue

SCHOOL REGISTRATION

City*

Ankara

School Name*

TED Ankara College

Date of Visit*

20.04.2025

Preferred Time of Visit*

11.00

Number of Visitor*

25

Continue

Search 

TED Ankara Koleji

Nesibe Aydın

Tevfik Fikret Lisesi

Jale Tezer Lisesi



SCHOOL REGISTRATION

City*

Ankara

School Name*

TED Ankara College

Date of Visit*

20.04.2025

Preferred Time of Visit*

11.00

Number of Visitor*

25

Calendar						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
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	1	2	3	4



Continue

SCHOOL REGISTRATION

City*

Ankara

School Name*

TED Ankara College

Date of Visit*

20.04.2025

Preferred Time of Visit*

11.00

Number of Visitor*

25

Continue

9:00

11:00

13:00

16:00



SCHOOL REGISTRATION

School Name*	
City*	
Date of Visit*	20.04.2025
Preferred Time of Visit*	11:00
Number of Visitor*	25

Ankara

You should enter
the city



Continue

SCHOOL REGISTRATION

Supervisor Name*

Can Kütükoğlu

Supervisor Duty*

School Manager

Supervisor Cellphone Number*

+90 (532) 241 19 07

Supervisor E-Mail*

kutukoglu@gmail.com

Notes to Consider

Is it possible to make a quick tour?

Submit



INDIVIDUAL REGISTRATION

Name*

Bora

Surname*

Akoğuz

Date of Visit*

20.04.2025

Preferred Time of Visit*

11:00

Major Preference*

Select Major

Submit

9:00
11:00
13:00
16:00



INDIVIDUAL REGISTRATION

Name*

Bora

Surname*

Akoğuz

Date of Visit*

20.04.2025

Preferred Time of Visit*

11:00

Major Preference*

Computer Science (CS)

Submit

Search

Computer Science (CS)

Law (LAW)

Electrics and Electronics (EE)

Political Science (POLS)



INVITE BILKENT FOR SCHOOL FAIRS

School Name

Özel Ankara Lisesi

City

Ankara

Date of Visit

30.03.2025

Supervisor*

Ege Ertem

Supervisor Duty*

Highschool Principal



Continue

INVITE BILKENT FOR SCHOOL FAIRS

Supervisor Cellphone Number*

0503 030 10 70

Supervisor E-Mail*

supervisor@gmail.com

Notes to Consider

No notes

Submit



INVITE BILKENT FOR SCHOOL FAIRS

Supervisor Cellphone Number*

0503 030 10 70

Supervisor E-Mail*

You should enter an
email address

Notes to Consider

No notes



Submit

INVITE BILKENT FOR SCHOOL FAIRS

Supervisor Cellphone Number*

0503 030 10 70

Supervisor E-Mail*

supeor@gmail.com

You should enter a
valid email address.

Notes to Consider

No notes

Submit



JOIN BTO

Name*

Ege

Surname*

Ertem

Bilkent ID*

22202433

Major*

Computer Science (CS)

Year*

2024

Submit Form

Search

Computer Science (CS)

Law (LAW)

Electrics and Electronics (EE)

Political Science (POLS)



JOIN BTO

Name*

Ege

Surname*

Ertem

Bilkent ID*

1234

You should
enter a valid ID

Major*

Computer Science (CS)

Year*

2024



Submit Form

VIEW YOUR REGISTRATION

Enter Your Registration Code

RC12345

View

VIEW YOUR REGISTRATION

Enter Your Registration Code

123

View

INVALID CODE

YOUR REGISTRATION CODE: S47XF924

School Name*

TED Ankara Koleji

Supervisor Duty*

School Manager

City*

Ankara

Supervisor Cellphone
Number*

+90 (532) 241 19 07

Date of Visit*

20.04.2025

Supervisor E-Mail*

kutukoglu@gmail.com

Preferred Time of
Visit*

20.04.2025

Notes to Consider

Is it possible to make a quick tour?

Number of Visitor*

25

Supervisor*

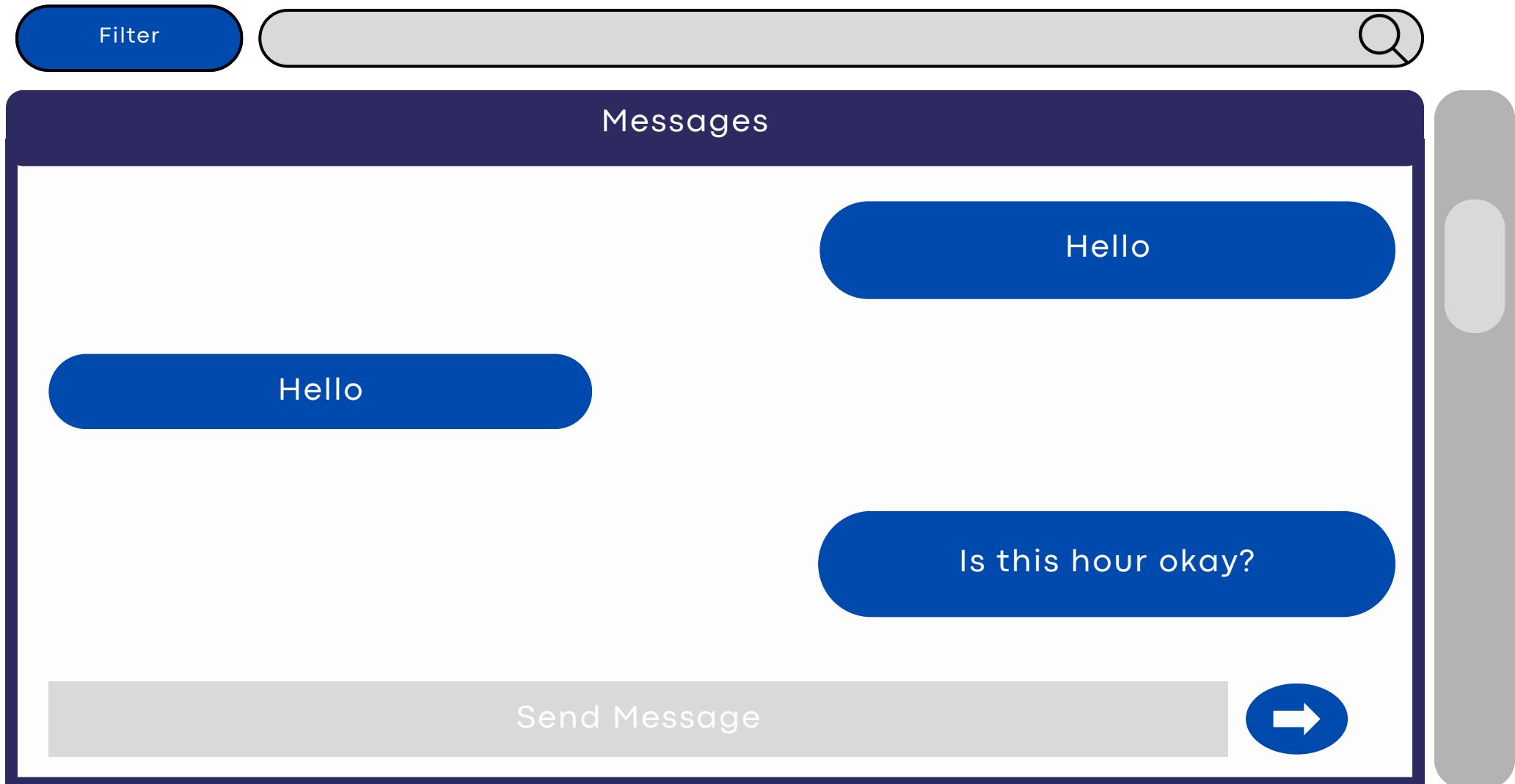
Can Kütükoğlu

EDIT REGISTRATION

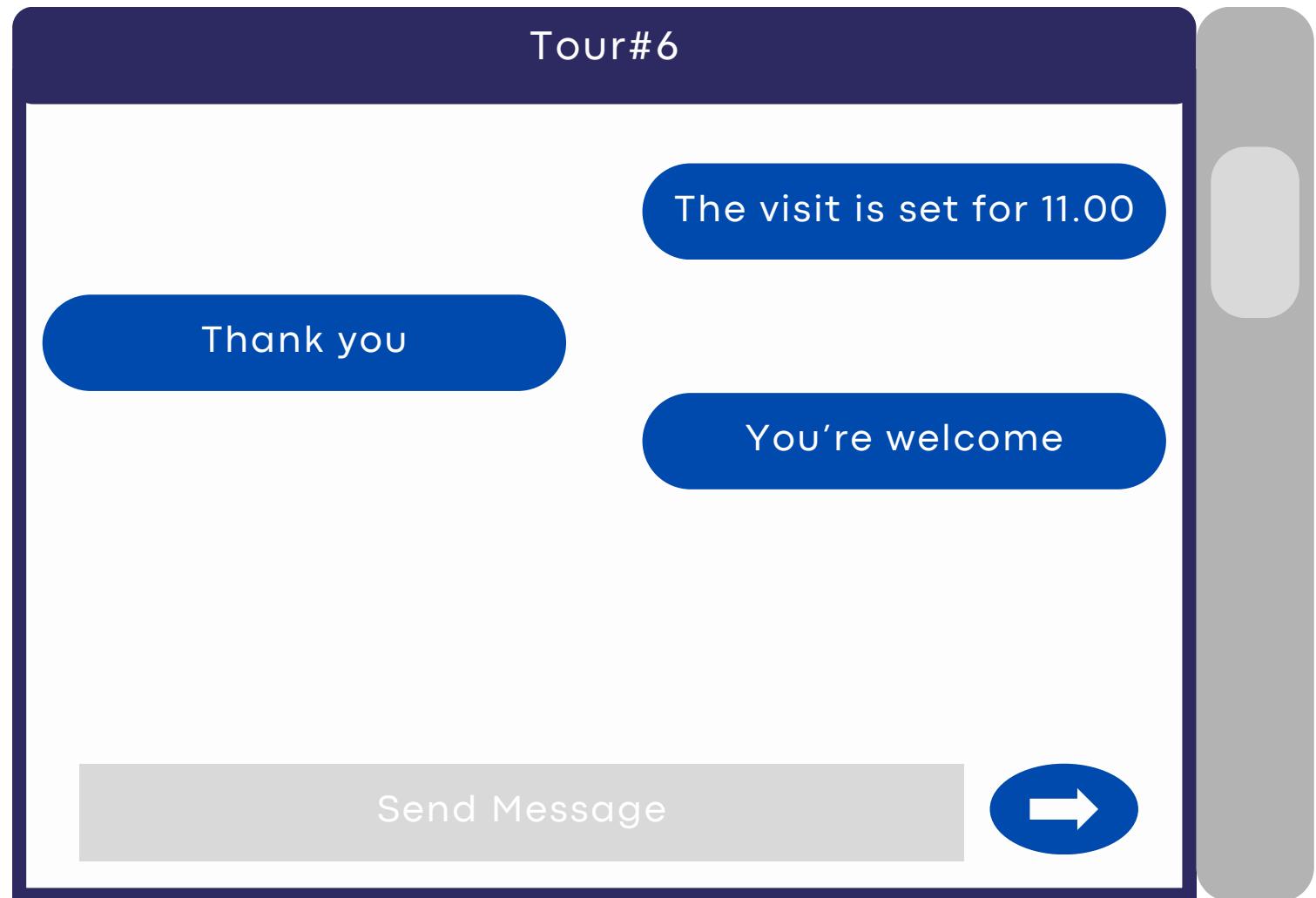
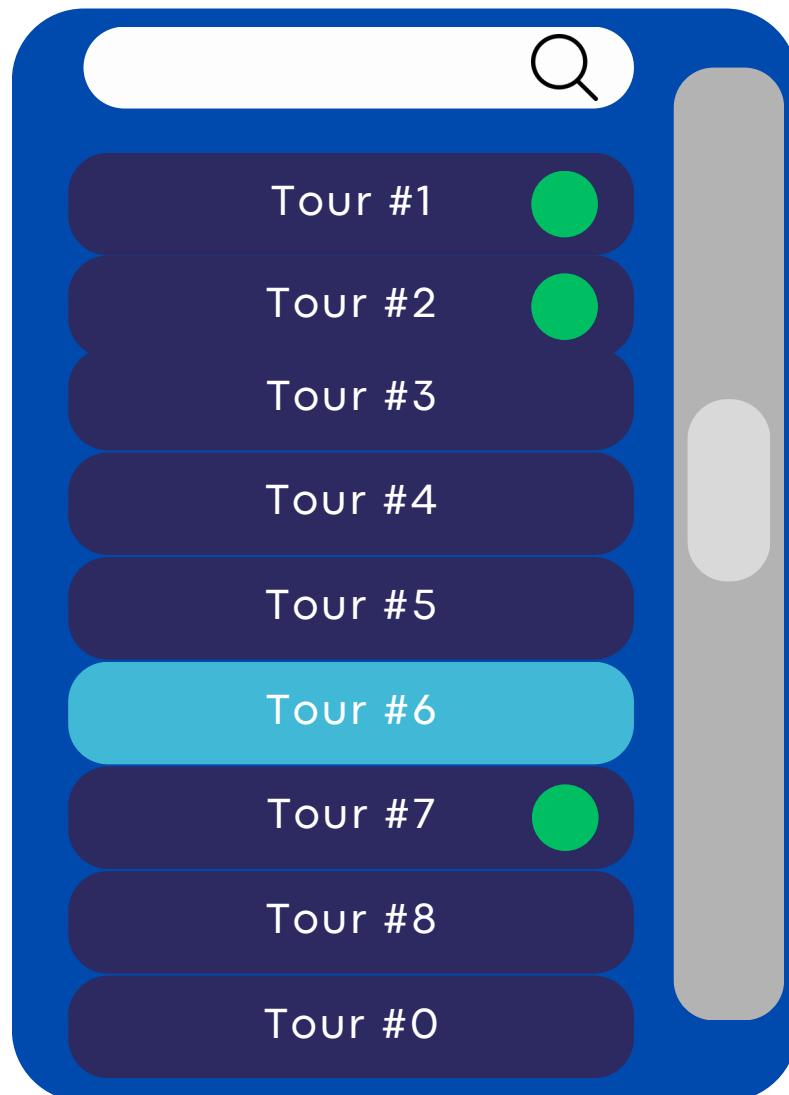
Contact with Advisors

CANCEL REGISTRATION

MESSAGE PANEL



ADVISOR MESSAGE PANEL



ADVISOR PANEL



@username

WELCOME @username

Tours Responsible
By Guides

Tour #1 Ertuğrul

Guide Requests



@username

Access to Guide
Panel

Access to Message
Panel

Tours Responsible

School Name

Date

TED Ankara Koleji

20.04.2025

Accept / Decline Tour
Requests



ADVISOR PANEL



@Kcindaruk

Profile



Name:

Kerem

Surname:

Cindaruk

Username:

Kcindaruk

E-mail:

kcindaruk@gmail.com

Change Information



ADVISOR PANEL



@username



Name:

Kerem

Surname:

Cindoruk

Username:

Kcindaruk

E-mail:

kcindaruk@gmail.com

Approve Change

Dismiss Changes



ADVISOR PANEL



@username

Tours Responsible By Guides

Ertuğrul Malkoç

Tour 12

Edit

Kuzey

Tour 18

Edit

Berke

Tour 21

Edit

ADVISOR PANEL



@username

Tour 12

Ertuğrul Malkoç

School Name

TED Ankara Koleji

City

Ankara

Name

Ertuğrul

Surname

Malkoç

Change Guide

Return



ADVISOR PANEL



@username

Tour 12

Ertuğrul Malkoç

Ege Ertem

School Name

TED Ankara Koleji

City

Ankara

Name

Ertuğrul

Surname

Malkoç

Name

Ege

Surname

Ertem

Approve Change

Dismiss Changes



ADVISOR PANEL



@username

Tour 12

Ertuğrul Malkoç

Ege Ertem ▼

School Name

TED Ankara Koleji

City

Ankara

Name

Ertuğrul

Surname

Malkoç

Name

Ege

Surname

Ertem

Can K

Bora A

Kerem

Kuzey

Approve Change

Dismiss Changes



ADVISOR PANEL



@username

Guide Requests

Ertuğrul

Tour 12

Decide (Button)

Approved

Ege

Tour 13

Decide

Proposed A Time

Kuzey

Tour 1

Decide

Denied

Ayşe

Tour 3

Decide

Decision Waiting

ADVISOR PANEL



@username

Ertuğrul Malkoç

Name

Ertuğrul

Surname

Malkoç

Approve

Deny

Propose Another Date

Return

Tour 12

School Name

TED Ankara Koleji

City

Ankara



ADVISOR PANEL



@username

Tours Responsible

Tour 1

Nesibe Aydin

21.04.2025

See Tour

Tour 42

Alara

25.04.2025

See Tour

Tour 14

AAL

28.04.2025

See Tour

Tour 16

Ege

01.05.2025

See Tour

ADVISOR PANEL



@username

School Name

Nesibe Aydin

Rating

High

Date and Time

21.04.2025

Notes

City

Ankara

Number of Visitor

35

Supervisor

Ahmet

Supervisor Duty

School Principle

Return



Accept / Decline Tour Requests

AAL

18.04.2025

Decide

Approved

Egemen

20.05.2025

Decide

Proposed A Time

Jale Tezer Lisesi

01.01.2025

Decide

Denied

Emre

02.01.2025

Decide

Decision Waiting

ADVISOR PANEL



@username

School Name

AAL

Rating

Medium

Date and Time

18.04.2025

Notes

No Notes

City

Ankara

Number of Visitor

15

Approve

Supervisor

Emre

Deny

Supervisor Duty

School Director

Propose Another Date

Return

ADVISOR PANEL



@username

Student Name

Emre

Notes

Date and Time

02.01.2025

No Notes

City

Bilecik

Major

Computer Science(CS)
Electrics and Electronics (EE)

Approve

Deny

Propose Another Date

Return

SURVEY PANEL



@username

SURVEYS

Create Survey

Survey #1

Start

Edit

Delete

Survey #2

Start

Edit

Delete

Survey #3

Start

Edit

Delete

Survey #4

Start

Edit

Delete

Survey #5

Start

Edit

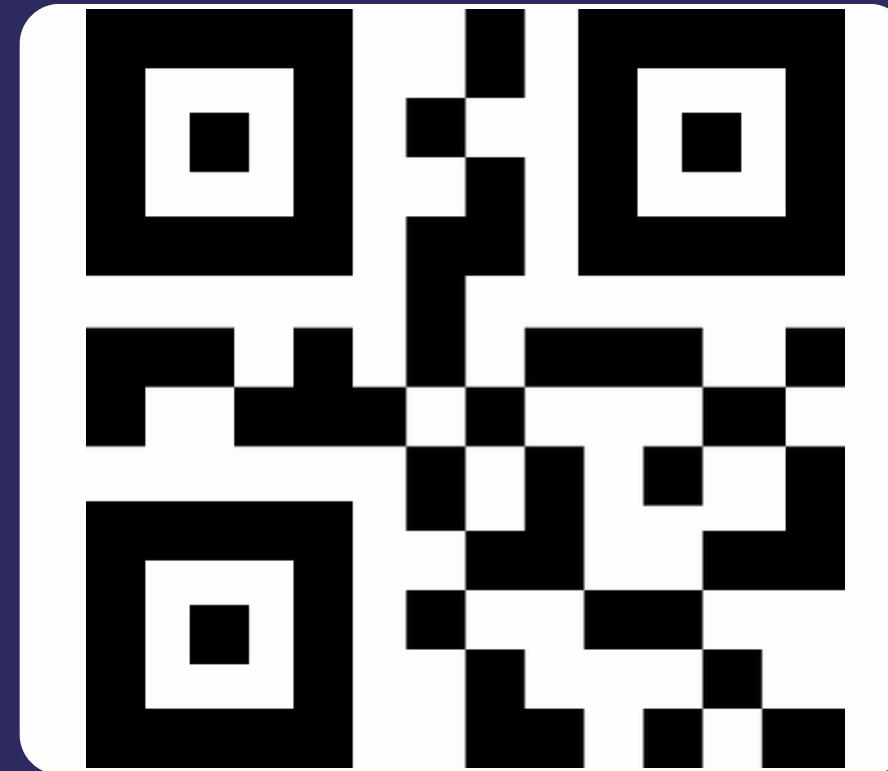
Delete

SURVEY PANEL



@username

Survey 2 Opened



End Survey

SURVEY PANEL



@username

Create A Survey / Edit Message

Questions

Add Question

Did you find the tour well?

Open-Ended

Delete

Which place was the nicest

Selection

Delete

Would you recommend Bilkent?

YES/NO

Delete

What would you recommend us?

Open-Ended

Delete

SURVEY PANEL



@username

Create A Survey / Edit Message

Questions

Add Question

Did you find the tour well?

Open-Ended

Which place was the nicest

Selection

Would you recommend Bilkent?

YES/NO

What would you recommend us?

Open-Ended

Selection

YES/NO

Open-Ended

Delete

Delete

Delete

Delete

CANDIDATE GUIDE PANEL



@username

WELCOME @username

Available Tours

Tour 1

Atatürk A

Ankara

21.04.2025

Edit Available
Hours

Assigned Tours

Tour 12

TED Ankara Ko

20.04.2025

CANDIDATE GUIDE PANEL



@username

Available Tours

School Name	City	Date of Visit	Prefered Time of Visit	Number of Visitor	Supervisor	Supervisor Duty	Supervisor Phone Number	Supervisor Mail	Notes	Appy to Tour
Nesibe	Ankara	01.02.2025	13.00	45	Bora Akoğuz	School Teacher	+90539006190	akoguz@gmail.com	No Notes	<button>Apply</button>
										<button>Apply</button>
										<button>Apply</button>
										<button>Apply</button>
										<button>Apply</button>

CANDIDATE GUIDE PANEL



@username

Assigned Tours

School Name	City	Date of Visit	Prefered Time of Visit	Number of Visitor	Supervisor	Supervisor Duty	Supervisor Phone Number	Supervisor Mail	Notes	Manage Tour
TED	Ankara	20.04.2025	13.00	25	Can Kütükoğlu	School Teacher	0500 070 00 00	super@mail.com	5 min late	<button>Manage</button>
										<button>Manage</button>
										<button>Manage</button>
										<button>Manage</button>
										<button>Manage</button>

CANDIDATE GUIDE PANEL



@username

Manage Tour

School Name	City	Date of Visit	Prefered Time of Visit	Number of Visitor	Supervisor	Supervisor Duty	Supervisor Phone Number	Supervisor Mail	Notes
TED	Ankara	20.04.2025	13.00	25	Can Kütükoğlu	School Teacher	0500 030 07 10	super@mail.com	5 min late

CANCEL APPLICATION

5 min late

Save



CANDIDATE GUIDE PANEL



@egertem

Profile



Name:

Ege

Surname:

Ertem

Username:

egertem

E-mail:

ertemege18@gmail.com

Change Information



CANDIDATE GUIDE PANEL



@username



Name:

Ege

Surname:

Ertem

Username:

egertem

E-mail:

ertemege18@gmail.com

Approve Change

Dismiss Changes

CANDIDATE GUIDE PANEL



@username

Edit Available Hours

Hours	Monday	Tuesday	Wednesday	Thursday	Friday
08.30-09.30	Busy	Busy	Available	Busy	Available
09.30-10.30	Busy	Busy	Available	Busy	Available
10.30-11.30	Busy	Available	Available	Busy	Available
11.30-12.30	Busy	Available	Available	Busy	Available
13.30-14.30	Available	Busy	Available	Available	Busy
14.30-15.30	Available	Busy	Available	Available	Busy
15.30-16.30	Available	Busy	Available	Available	Busy
16.30-17.30	Available	Available	Available	Available	Busy

GUIDE PANEL



@username

WELCOME @username

Available Tours

Tour #1

Atatürk A

Ankara

30.05.2025

Assigned Fairs

Nesibe Aydın

Assigned Tours

Tour #1

TED Anka

Ankara

20.04.2025

Edit Available
Hours



GUIDE PANEL



@emalkoc

Profile



Name:

Ertuğrul

Surname:

Malkoç

Username:

emalkoc

E-mail:

emalkoc@gmail.com

Change Information



GUIDE PANEL



@username



Name:

Ertuğrul

Surname:

Malkoç

Username:

emalkoc

E-mail:

emalkoc@gmail.com

Approve Change

Dismiss Changes

GUIDE PANEL



@username

Available Tours

School Name	City	Date of Visit	Prefered Time of Visit	Number of Visitor	Supervisor	Supervisor Duty	Supervisor Phone Number	Supervisor Mail	Notes	Appy to Tour
Nesibe	Ankara	01.02.2025	13.00	45	Bora Akoğuz	School Teacher	+90539006190	akoguz@gmail.com	No Notes	<button>Apply</button>
										<button>Apply</button>
										<button>Apply</button>
										<button>Apply</button>
										<button>Apply</button>

GUIDE PANEL



@username

Assigned Tours

School Name	City	Date of Visit	Prefered Time of Visit	Number of Visitor	Supervisor	Supervisor Duty	Supervisor Phone Number	Supervisor Mail	Notes	Manage Tour
TED	Ankara	20.04.2025	13.00	25	Can Kütükoğlu	School Teacher	0500 023 19 07	super@g mail.com	5 min late	<button>Manage</button>
										<button>Manage</button>
										<button>Manage</button>
										<button>Manage</button>
										<button>Manage</button>



Manage Tour

School Name	City	Date of Visit	Prefered Time of Visit	Number of Visitor	Supervisor	Supervisor Duty	Supervisor Phone Number	Supervisor Mail	Notes
TED	Ankara	20.04.2025	13.00	25	Can Kütükoğlu	School Teacher	XXX	XXX	5 min late

5 min late

Save



Assigned Fairs

School Name	City	Date of Visit	Supervisor	Supervisor Duty	Supervisor Cellphone Number	Supervisor Mail	Notes
Özel Ankara Lisesi	Ankara	30.03.2025	Ege Ertem	Principal	0503 030 10 70	supervisor@gm ail.com	No Notes



Edit Available Hours

Save

Hours	Monday	Tuesday	Wednesday	Thursday	Friday
08.30-09.30	Busy	Busy	Available	Busy	Available
09.30-10.30	Busy	Busy	Available	Busy	Available
10.30-11.30	Busy	Available	Available	Busy	Available
11.30-12.30	Busy	Available	Available	Busy	Available
13.30-14.30	Available	Busy	Available	Available	Busy
14.30-15.30	Available	Busy	Available	Available	Busy
15.30-16.30	Available	Busy	Available	Available	Busy
16.30-17.30	Available	Available	Available	Available	Busy

COORDINATOR PANEL



@username

List All Users

User 1

Ege Ertem

Advisor

Add Candidate
Guide

Add Guide

Manage Surveys

Assign Guide To
Fairs

Manage Fair
Requests

Add Advisor



COORDINATOR PANEL



@username

Profile



Name:

Ertuğrul

Surname:

Malkoç

Username:

emalkoc

E-mail:

emalkoc@gmail.com

Change Information



COORDINATOR PANEL



@username



Name:

Ertuğrul

Surname:

Malkoç

Username:

emalkoc

E-mail:

emalkoc@gmail.com

Approve Change

Dismiss Changes

COORDINATOR PANEL



@username

List All Users

Filter

Name/Surname	Username	User Type	Management	
Ege Ertem	egertem	Advisor	Delete User	Manage Advisor
Ertuğrul Malkoç	emalkoc	Advisor	Delete User	Manage Advisor
Kerem Cindaruk	kcindaruk	Guide	Delete User	
Can Kütükoğlu	ckutukoglu	Advisor	Delete User	Manage Advisor
Bora Akoğuz	bakoguz	Candidate	Delete User	Promote
Sami Akoğuz	sakoğuz	Guide	Delete User	



Manage Advisor

Monday	Tuesday	Wednesday	Thursday	Friday
Ocupped	Ocupped	Assign	Ocupped	Assign



Add Candidate Guide

Name

Ege

Surname

Ertem

Username

Egorto

E-Mail

ertemege@yahoo.com

Submit



Add Guide

Name

Bora

Surname

Akoğuz

Username

bakoguz

E-Mail

bakoguz@gmail.com

Submit



Add Advisor

Name

Ertuğrul

Surname

Malkoç

Username

emalkoc

E-Mail

emalkoc@gmail.com

Submit



Manage Fair Request

School	City	Date of Visit	Notes	Management
TED Ankara	Ankara	20.04.2025	No Notes	
Nesibe Aydın	Ankara	30.04.2025	Need 2 Guides	
Atatürk Anadolu	Ankara	09.05.2025	No Notes	

[Save](#)



Assign Guide to Fairs

School Name	City	Date of Visit	Notes	Manage Fair
TED Ankara	Ankara	20.04.2025	No Notes	Assign/Dismiss Guide
Nesibe Aydın	Ankara	30.04.2025	We need 2 guides	Assign/Dismiss Guide
				Assign/Dismiss Guide
				Assign/Dismiss Guide
				Assign/Dismiss Guide

COORDINATOR PANEL



@username

- Can Kütükoğlu
- Ege Ertem
- Bora Akoğuz
- Kerem Cindaruk

Assign

Dismiss

Return

Fair #

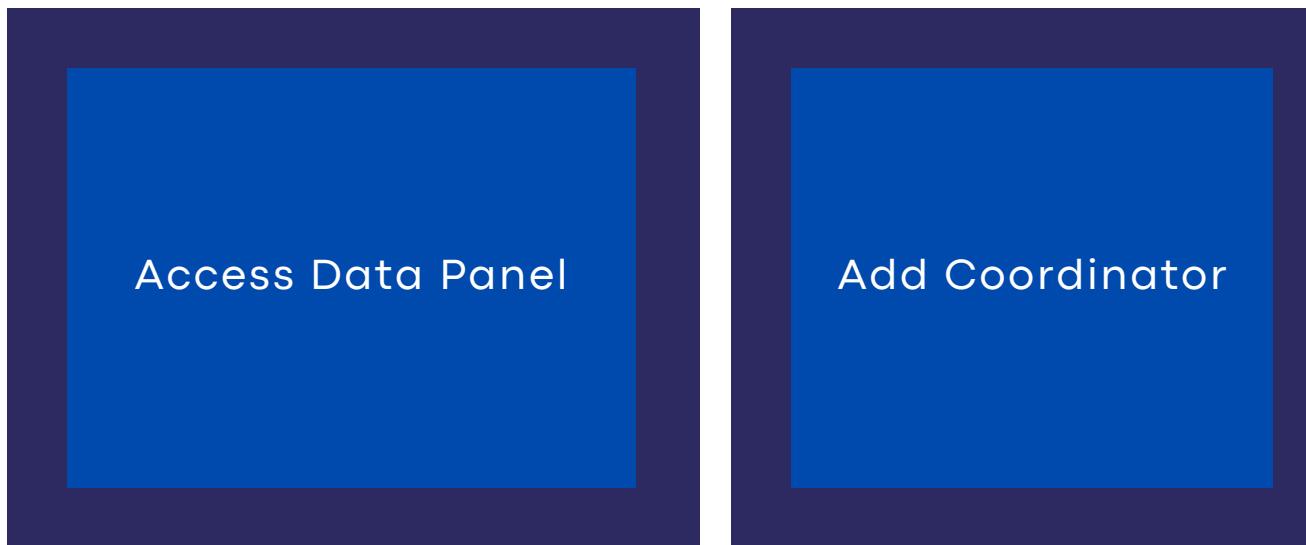
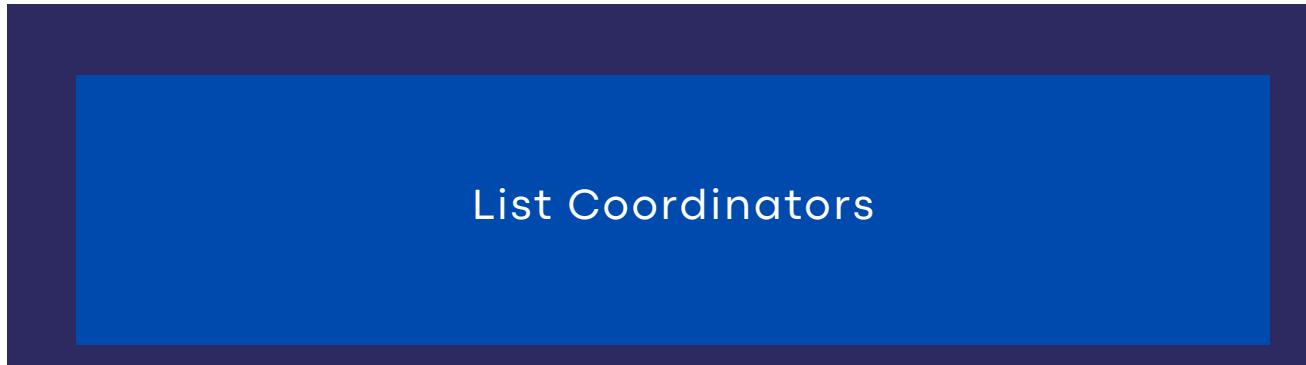
School Name

Nesibe Aydın

City

Ankara

OWNER PANEL



OWNER PANEL

List Coordinators

Filter

Name/Surname	Username	User Type	Management
Bora Akoğuz	bakoğuz	Coordinator	Delete Coordinator
Ege Ertem	egorto123	Coordinator	Delete Coordinator
Can Kütükoğlu	ckutukoglu	Coordinator	Delete Coordinator
Kerem Cindaruk	kcindaruk	Coordinator	Delete Coordinator
Ertuğrul Malkoç	emalkoç	Coordinator	Delete Coordinator
Sami Akoğuz	sakoğuz	Coordinator	Delete Coordinator



Add Coordinator

Name

Bora

Surname

Akoğuz

Username

bakoğuz

E-Mail

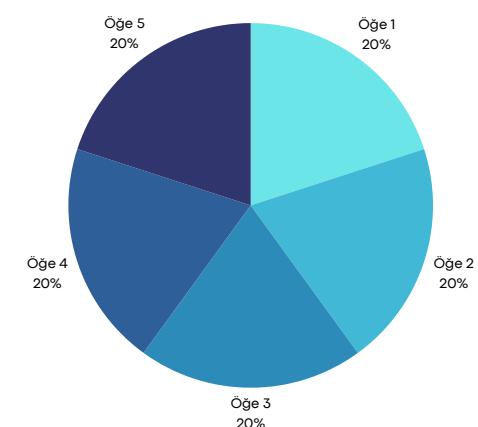
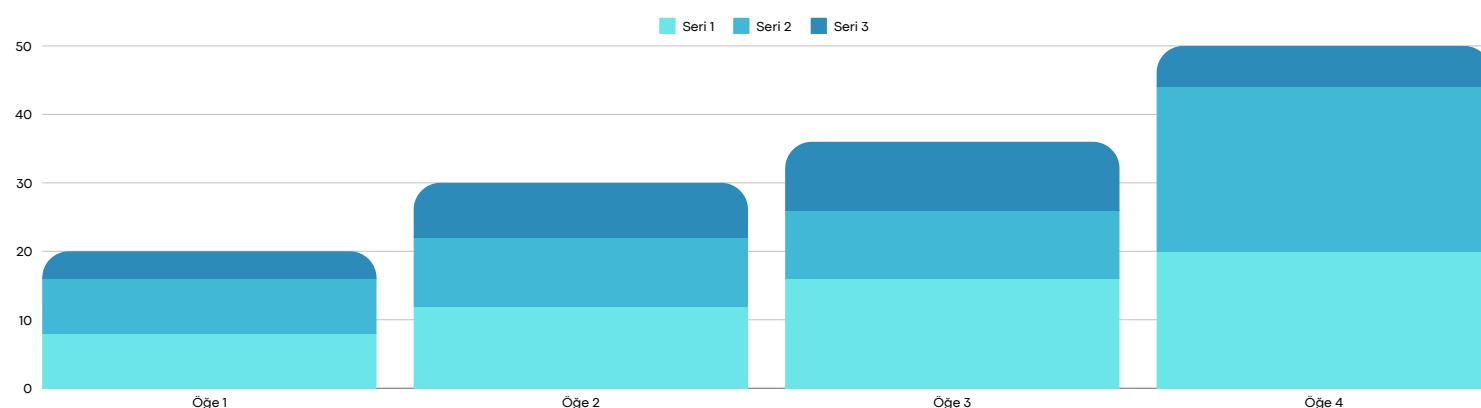
supervisor@mail.com

Submit

DATA PANEL

Filter

Schools	Student Number	Students Sent to Bilkent	Location	YKS Rating	Relation With Status	Detail
TED Ankara	600	130	Ankara	High	Good	<button>Show Details</button>
AAL						<button>Show Details</button>
Nesibe Aydın						<button>Show Details</button>



DATA PANEL

TED Ankara Koleji

Student Number

600

Students Sent to Bilkent

130

Location

Ankara

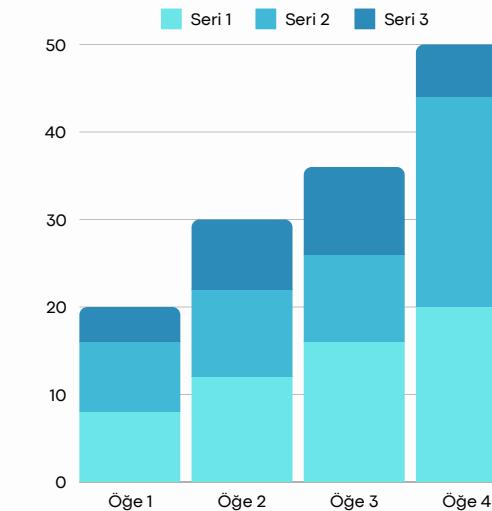
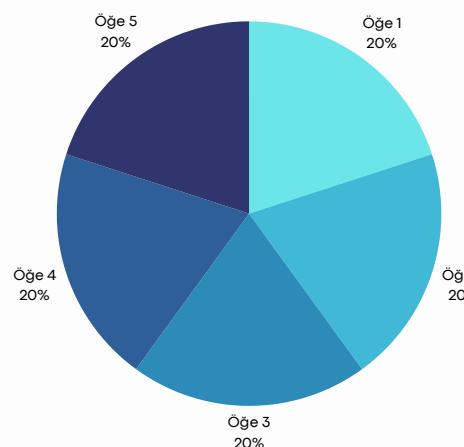
YKS Rating

High

Status of Relation

Good

Data Details



Close

STATISTIC #3