



Bilkent University

Department of Computer Engineering

Erasmus Registration Management System

Project short-name: ERSMS (Group Number: 1E)

Final Report

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This report is submitted to the Department of Computer Engineering of Bilkent University in partial fulfillment of the requirements of the Object-Oriented Software Engineering course CS319

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1 Introduction

The final form of the ERSMS software offers different screens and functionalities for students, exchange coordinators, course instructors, chairs, deans, employees of office of international students and exchange programs (OISEP) and finally admins. All of the key features and ideas were implemented in the app to ensure the customers' expectations are satisfied. For a student to register to the system, an employee from OISEP has to upload the score table of the corresponding department as an initial step. Then, the exchange coordinator needs to place the students via the "Auto-Place" button on his/her "Placements" page. After that, students can register through the "Sign Up" page by activating their accounts.

The primary method of interaction is through forms and requests that are present in digitalized forms in the system. Students can create and upload pre-approval forms and course equivalence requests whereas exchange coordinators can upload CTE forms from the official transcript provided them by the host schools. These forms will be evaluated by corresponding administrative staff and their statues can also be tracked through the system. There are also many bonus features like To-Do lists, announcement panels, profile pages for students, loggings of previous forms, charts for displaying overall forms and request data, etc.

1.1 State of the System

- Although the backend and the frontend of the messaging functionality are implemented, they are not connected.
- There is a page for "Appointments" for students and exchange coordinators, but its backend is not implemented.
- There are some small delays in the system especially when fetching large data from the database.
- The functionality for manually placing students has not been implemented.

2 Lessons Learned

First of all, we learnt how to manage a team by coordinating meetings and doing the proper work allocation. This was crucial because we were able to report back to each other and monitor each other's processes. Furthermore, giving enough time for designing the structure of the backend pays off really well. Although we spent a lot of time thinking about the relations between classes and how they are going to be implemented, we were able to act on changes and modify our code much more easily later on.

Another crucial lesson we were able to pick up was the significance of requirement analysis. Developing an Erasmus management software requires a lot of brainstorming. There were lots of attributes that could be added ,but there was simply not enough time. As a result, we had to filter some qualities and add the ones that are the most important for the client. We also understood the significance of design patterns. Writing the code in a rigid way made our jobs really difficult in the first place. To overcome this, we adapted some design patterns so that we could improve and extend our code.

For languages, many of us did not have prior knowledge about .NET or Angular. We also needed a strategy to learn these languages as quickly as possible and learn the appropriate parts. This was a valuable lesson because trying to be expert on every aspect of a language would cost us precious time. We adapted ourselves to learn and use the relatively important parts for our project. Finally, we experienced many conveniences when we applied commonly used software engineering principles and practices such as AutoMapper library for DTOs, REST API architecture for endpoints and N-layered architecture for the general structure of the project.

3 User's Guide

3.1 Admin

The information of the admin account is hard-coded into the database. Therefore, there isn't any way to create an admin account throughout the app. Admin is responsible for creating the accounts of the administrative staff and students. However, creating a student account is optional for the admin as student accounts are automatically created when the exchange coordinators place the students.

There is only an admin panel in the admin page. Through this panel, the admin chooses the user type such as a chair or a dean and enters the necessary information of the user. This information includes the name, last name, email, Bilkent id number, password and confirmation password. Admins can also delete a user or modify the information of a user through the admin panel.

3.2 Dean

Dean can enter the system after his/her account has been created by the admin. The dean account contains three pages which are "Logging", "Dashboard" and "Forms and Requests". The "Logging" page includes the previously sent CTE forms as the signature of the dean is required only for the CTE forms. However, they can only see the forms of their corresponding faculty. They can also filter the loggings by entering the filtering value and can sort the data of a corresponding column if they require.

For the “Forms and Requests” part, they can either approve or decline a CTE form. Naturally, they are able to see the previous decisions of the other administrative staff such as the chair or the exchange coordinator. They can provide additional notes regarding their decision which will be displayed to the student. Before making any decision, they can monitor the courses and the corresponding grades in the CTE form and the general information of the student such as his/her CGPA, host school or email address. Finally, they can see the announcements through their dashboard.

3.3 Chair

The account of the chair is almost identical to the account of the dean. The only difference for the chair is a chair can only see the CTE forms of his/her corresponding department rather than the faculty which was the case for the dean.

3.4 Course Instructor

Course Instructors can enter the system after their accounts have been created by the admin. The course coordinators have two main pages in their view, namely “Forms and Requests” and “Logging.” In the “Forms and Requests” page, they can view and respond to the course equivalence requests related to their courses. In the “Logging” page, they can view all the course equivalence requests related to their courses, including the canceled and archived ones.

3.5 Exchange Coordinator

Exchange coordinators can enter the system after their accounts have been created by the admin. The exchange coordinators can manage the ERASMUS process of their departments. They have 6 main pages in the exchange coordinators’ view, namely “Dashboard,” “Forms and Requests,” “Appointments,” “Logging,” “Placements,” “Messages.” In the dashboard, they can see the overview of the forms and requests via charts. They also have a todo list which is updated automatically if there are any updates on form submissions. They also can see the announcements made by deans, department chairs, course coordinators, instructors and exchange coordinators in the dashboard. In the “Forms and Requests” page, the exchange coordinators can create CTE forms. They also can view and respond to all the active forms and requests in the system. In the “Logging” page, the coordinators can see all the forms and requests regardless of them being in process, i. e., archived and canceled forms are also included in this page. In the “Placements” page, the coordinates can see the students that are placed and that are in the waiting list. They also can see a preview of the students. If a score table for their department is uploaded by an OISEP official, they can perform auto-placement with one click on this page. They also can download the current score table for their department. From the navigation bar, they can see the notifications and make announcements.

3.6 Student

The students are allowed to enter the system if they are placed in a school. For the activation of their accounts, they need to sign up as an initial step. The students can view and manage their ERASMUS process. They have two main pages in the students' view, namely "Dashboard" and "Forms and Requests". In the dashboard, they can see the todo list where they can follow the tasks they should do. This todo list is updated automatically if there are any updates on their application process, such as approval of a form. They can also see the announcements made by deans, department chairs, course coordinators, instructors and exchange coordinators in the dashboard. In the forms and requests page. They can upload the pre-approval and CTE forms and view the status of their forms. They can also cancel the forms they sent.

3.7 OISEP

OISEP officials can enter the system after their accounts have been created by the admin. The OISEP accounts have one functionality, which is managing the score tables for every department. The only page that the OISEP officials encounter is the dashboard in which they can upload the score tables. This page also allows the OISEP officials to delete and download the score tables.

4 Build & Execution Instructions

In order to ease the deployment process, ERSMS uses Docker, which is a containerization platform that is used to deliver software and its all dependencies together in the form of containers. Thanks to Docker, ERSMS is platform-independent, which means one can run the ERSMS on GNU/Linux, MacOS, and Windows by using the same build and execution instructions.

For building and executing ERSMS:

1. You need to install the Docker software, if you do not have it installed on your system. For that, official documentation [here](#) can be useful.
2. Similarly, you need to clone the project's repository from GitHub to your system using "git clone".
3. Then, using your operating system's shell (i.e., Bash on GNU/Linux, zsh on MacOS, or Powershell on Windows) navigate to the directory where you cloned the repository, for example, "cd ~/Downloads/ERSMS" on GNU/Linux or MacOS.
4. Then, once again, if you have done the previous two steps correctly, you need to see the "docker-compose.yml" and "Dockerfile" files in the root folder of the ERSMS repository.

5. Now, for running the project:
 - a. If you are running the project for the first time, execute the following commands respectively in your operating system's shell again.
 - i. `docker compose -f docker-compose.yml build`
 - ii. After the first command is completed,
`docker compose -f docker-compose.yml up`
 - b. If you are running the project again after the first time, you need to execute only
 - i. `docker compose -f docker-compose.yml up`
6. Once your terminal indicates that containers are up and functional, you can use the ERSMS application from <http://localhost:8000> or <https://localhost:8001>. *You can always use the HTTPS one, but since the HTTPS certificates are self-signed, your browser might complain about it.*
7. You can close the application by either terminating it from the terminal via CTRL+C Windows and GNU/Linux, or CMD+C on MacOS; or you can open up a separate terminal in the project repository's root directory and run the "docker compose down" command.

As can be seen, it is possible to deploy the ERSMS application mostly automated in at most six main steps. Without Docker, it would be required to install .NET SDK, PostgreSQL Database Server, Angular Framework, and Nginx Reverse Proxy by hand and then deploy the project, which is tedious.

5 Work Allocations

Kutay Tire - 22001787

Analysis Report:

- Wrote the introduction part of the analysis report
- Drew and explained the use-cases in "Placement" package
- Drew and explained state machine diagrams of the forms
- Wrote the improvement summary for the second iteration
- Modified the class and state diagrams for the second iteration
- Wrote some parts of the non-functional requirements

Design Report:

- Modified the introduction part and the design goals of the project
- Drew the using entity objects and explained the relation between them
- Drew the "Controller Layer" by creating the class diagrams for controllers and their methods
- Explained the present methods and functionalities of the "Controller Layer"
- Wrote the improvement summary for the second iteration

Implementation:

- Worked on the frontend of the project

- Created the initial version of the charts at the dashboard page of the exchange coordinator
- Designed the initial version of the routing of the app
- Designed the “Placements” and “Logging” pages of the exchange coordinator specifically by placing the tables and implementing the logic behind.
- Used form and to-do list services to connect the backend of the chart and to-do list components
- Added the announcement panel for the dean, chair, student and instructor
- Made bug fixes for the frontend.

Final Report:

- Wrote the introduction part and the current status of the system
- Wrote the “Lessons Learned” part of the report
- Wrote the User’s Guide of the report
- Wrote work allocation for himself

Atak Talay Yücel - 21901636

Analysis Report:

- Wrote some parts in functional requirements
- Drew and explained the use-cases in “Management” package
- Drew the class diagram
- Wrote some parts in non-functional Requirements

Design Report:

- Drew the “User Interface Layer” using entity objects and explained the relation between them
- Made improvements on “Data Access Layer”
- Explained the relations between the entity objects

Implementation:

- Worked on the frontend of the project.
- Designed the Dashboard, Appointments, Placements, Messages, Login, SignUp, Profile Pages.
- Created the panels for viewing and creating Forms & Requests in the application and connected them to the backend using the services. Therefore, connected “Forms and Requests” and “Logging” pages to the backend using the services.
- Created the ToDo List and connected it to the backend using the services.
- Designed navigation bars, notifications, announcement.
- Designed the Admin Panel.
- Tested the application by trying various cases to find edge cases and bugs of the application.

Final Report:

- Wrote work allocation for himself

- Took screenshots of Swagger

Borga Haktan Bilen - 22002733

Analysis Report:

- Drew the auxiliary package for use case diagram
- Drew a part of authentication package for use case diagram
- Wrote explanations for authentication package and auxiliary package for use case diagram
- Drew and wrote explanations for activity diagrams
- Drew a part of class diagram and proof-read the diagram
- Modified the activity diagrams for the second iteration according to the feedback received
- Renamed the auxiliary package components of the use case diagram for the second iteration

Design Report:

- Drew subsystem decomposition and wrote explanation for the diagram
- Co-drew access control matrix for the section 2.5
- Drew final object diagram and wrote explanation for it
- Wrote external packages used in the application and packages created for the (within the) application.
- Drew repository layer diagram
- Wrote explanations for service and controller layer

Implementation:

- Created entity model structure for the backend
- Wrote repository classes for the entities
- Created service layer structure and wrote services
- Wrote REST API endpoints by creating controller layer
- Tested endpoints using Postman and Swagger, fixed bugs according to the tests
- Wrote service layer for frontend in order to connect backend to frontend
- Created models layer (representing DTOs) for frontend
- Bug fixing for the frontend

Final Report:

- Wrote work allocation for himself
- Took screenshots of different views of the application

Berk Çakar - 22003021

Analysis Report:

- Wrote the current system section of the analysis report
- Wrote the proposed system section of the analysis report
- Wrote the functional requirement's views subsection in the analysis report

- Wrote the non-functional requirements section of the analysis report
- Drew the Logging package for the use case diagram
- Wrote explanations for the Logging package (i.e., flow of events)
- Drew user interface mock-ups for the analysis report
- Improved the non-functional requirements section and the use case diagram based on the given feedback in the second iteration of the analysis report.

Design Report:

- Wrote the top two design goals subsection of the design report
- Drew the deployment diagram of the application, and explained the deployment procedure for the design report.
- Wrote the hardware/software software mapping subsection for the design report with performing a market research for picking a right cloud solution.
- Wrote the persistent data management subsection of the design report.
- Co-drew the access control matrix
- Wrote the boundary conditions subsection of the design report
- Wrote the design patterns subsection of the design report
- Wrote the glossary part of the design report

Implementation:

- Initialized the project structure (.NET backend + Angular frontend), and determined the required dependencies (i.e., external packages) for the implementation.
- Implemented the authentication system in the backend (including AuthenticationController, AuthenticationService, UserService, UserRepository, and TokenService classes).
- Initialized the actor related classes (including DomainUser, Admin, OISEP, CourseCoordinatorInstructor, DeanDepartmentChair, Student, and ExchangeCoordinator classes).
- Implemented the automated student placement based on the placement table uploaded by the OISEP staff (including AutoPlacer, PlacementController, PlacementService, PlacementRepository classes)
- Documented the backend source code using XMLDoc comments and generated a static documentation website via DocFX
- Overall refactoring and bug fixing of the backend code
- Implemented the routing and access guard mechanisms in the frontend
- Implemented the login and sign up screens with corresponding REST API calls
- Implemented Admin and OISEP dashboards by revising the previous design from the team members with corresponding REST API calls
- Fixed a critical bug in Student's forms and requests panel
- Implemented a "toaster" service, so that success and error messages can be delivered to the end user graphically
- Containerized the project using Docker for automating the deployment process

Final Report:

- Wrote the build and execution instructions for the final report
- Wrote work allocation for himself
- Took screenshots of different views of the application

Yiğit Yalın - 22002178

Analysis Report:

- Drew the Profile & Social part of the diagram and wrote their explanations.
- Drew the sequence diagrams and wrote their explanations.
- Wrote the non-functional requirements part.

Design Report:

- Wrote the object design trade-offs part.
- Modified the User Interface layer.

Implementation:

- Worked on the frontend of the project
- Implemented the appointments view.
- Implemented several dialogs for forms, file uploads and confirmations.
- Implemented the placements page for exchange coordinators and its connection to the backend.
- Implemented the models which are the frontend counterparts of the backend DTOs.
- Implemented some components of the dashboard, forms and requests and logging views.
- Implemented the student profiles.

Final Report:

- Wrote the User's Guide part of the report.
- Wrote work allocation for himself
- Took screenshots of different views of the application













6 Appendix

A. Admin View

Admin Panel

Create New User



User List

First Name ↑	Last Name	Username	Role	
Can	Alkan	22002902	Exchange Coordinator	 
Edward	Snowden	1	Admin	 
Eray	Tüzün	22002901	Course Coordinator Instructor	 
Erkin	Tarhan	22002900	Office of International Students and Exchange Programs	 
Nail	Akar	22002903	Dean Department Chair	 
Selim	Aksoy	22002904	Dean Department Chair	 

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User Details

User Type: ▼

First Name	Last Name
Email berkcakar@ug.bilkent.edu.tr	Bilkent ID Number
..... 	Confirm Password 

Cancel

Submit

User Details

User Type: Office of International Students and Exchange Programs

Student

Exchange Coordinator

Course Coordinator Instructor

Dean Department Chair

First Name

Email

berkcakar

.....

Confirm Password

Cancel

Submit

B. Login/Signup View

E R S M S

Email

berkcakar@ug.bilkent.edu.tr

Password

.....

Login

Don't have an account? [Sign Up](#)

Create Account

First Name

Last Name

Bilkent ID Number

Email

A valid Bilkent University email address is required

Password

Password is required

Confirm Password

Create Account

Already have an account? [Login](#)

C. OISEP View

ERSMS

Erkin Tarhan
OISEP

Dashboard

Exchange Score Tables

Department: Department of Computer Engineering

Score Tables: Selection_2022-2023.xlsx

Debug:

Upload Score Table

Download Score Table

Delete Score Table

Preview

#	First Name	Lastname	Student ID Number	Faculty	Department	Degree	Transcript Grade(4/4)	Transcript Grade(100/100)	Transcript Grade Contribution	Total Points
1	Kardelen	CEREN	22002700	Faculty of Engineering	Department of Computer Engineering	Lisans	3.98	99.530	49.333	99.333
2	Furkan	GÜZELANT	22002701	Faculty of Engineering	Department of Computer Engineering	Lisans	3.97	99.300	49.000	99.000
3	Safa Eren	KUDAY	22002702	Faculty of Engineering	Department of Computer Engineering	Lisans	3.92	98.130	47.333	97.333

D. Exchange Coordinator View

ERSMS

Dashboard

Forms and Requests

Appointments

Logging

Placements

Messages

Can Alkan
Exchange Coordinator

Logging

AllPre-Approval FormsCTE FormsCourse Equivalence Request

Search

ID	Student	Date	Type	School	Status
22002705	Borga Haktan Bilen	18/12/2022 11:13	Course Eq. Request	Saarland University	Approved

1 - 1 of 1

ERSMS

Dashboard

Forms and Requests

Appointments

Logging

Placements

Messages








Can Alkan
Exchange Coordinator

Placements


Perform Auto-PlacementDownload Current Score Table

Search



Placed StudentsWaiting List

Student Name	Host University	Score
 Kardelen Ceren Department of Computer Engineering	École Polytechnique Fédérale (EPF)	99.33
 Furkan Güzelant Department of Computer Engineering	École Polytechnique Fédérale (EPF)	99
 Safa Eren Kuday Department of Computer Engineering	Vrije University	97.33
 İsmail Emre Deniz Department of Computer Engineering	Vrije University	93.67
 Borga Haktan Bilen Department of Computer Engineering	Saarland University	90.33
 Berkay Çalmaz Department of Computer Engineering	AGH University of Science and Technology	87.67
 Uğur Can Altun Department of Computer Engineering	Saarland University	83.67

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Borga Haktan Bilen



Info

CGPA3.71

Bilkent ID Number22002705

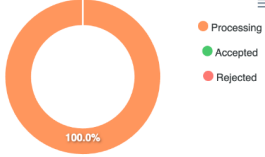
DepartmentDepartment of Computer Engineering

Preferred Term2022-2023 Spring Semester

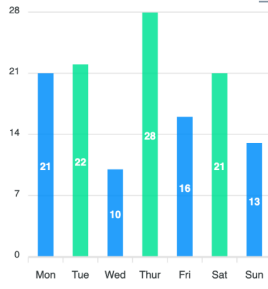
15

Dashboard

Forms and Requests



Submitted Forms and Requests



TODO List

Waiting Tasks

Starred Tasks

Completed Task

- ★ ☐ Meeting with Ayşegül Dündar at 14.30
- ★ ☐ Review the Pre-Approval Form of Borga Haktan Bilen (22002705) and approve or reject it.

Add New

Notifications

Read All

New Pre-Approval Form has been submitted by Borga Haktan Bilen (22002705)

New Equivalence Request Form has been submitted by Borga Haktan Bilen (22002705)

Announcements

Submit your pre-approval forms until saturday midnight of 17.12.2022
18 12 2022 11:04

Dashboard

Forms and Requests

Appointments

Logging

Placements

Messages

Forms and Requests

Create CTE Form

All

Pre-Approval Forms

CTE Forms

Course Equivalence Request

Search

ID	Student	Date	Type	School	Status
22002705	Borga Haktan Bilen	18/12/2022 11:13	Course Eq. Request	Saarland University	Waiting
22002705	Borga Haktan Bilen	18/12/2022 11:16	CTE Form	Saarland University	Waiting
22002705	Borga Haktan Bilen	18/12/2022 11:11	PreApproval Form	Saarland University	Waiting

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E. Form Views

Pre-Approval Form

#290c8542-4dd8-4117-ac9c-7163629b6ab0



Submission Date 18/12/2022 11:11

Form Status:

Waiting

Upload Official Document

File name:

Download Pdf

Upload Pdf

Delete Pdf

Form Information

Form Content

Course Group 1

Host Institution Courses

Course Code

INT-X09-630

Course Name

Social Constructs

ECTS

5

Bilkent Requirement

Course Type

Social Science Core Elective

Course Code

HUM312

Course Name

Humanities

Bilkent Credits

3

ECTS

3

Pre-Approval Form

#290c8542-4dd8-4117-ac9c-7163629b6ab0



Submission Date 18/12/2022 11:11

Form Status:

Waiting

Upload Official Document

File name:

Download Pdf

Upload Pdf

Delete Pdf

Form Information

Form Content

Student Details

Name	Borga Haktan Bilen
Student ID	22002705
Department	Department of Computer Engineering
Email	haktanbilan@ug.bilkent.edu.tr
CGPA	3.71
Exchange School	Saarland University
Preferred Term	2022-2023 Spring Semester
Entrance Year	2020

Approvals

Role: Exchange Coordinator

Waiting

Role: Administration Board

Waiting

Submit Pre-Approval Form

Course Group 1

[Delete](#)

Host Institution Courses

[Add Course](#)

Course Code	Course Name	ECTS
INT-X09-630	Social Constructs	5

Bilkent Requirement

Course Type: Social Science Core Elective

Course Code and Course Name are Optional

Course Code	Course Name	Bilkent Credits	ECTS
HUM312	Humanities	3	5

[Add Course Group](#)[Cancel](#)[Submit](#)

Submit CTE Form

Student Id
22002700

Course Group 1

[Delete](#)

Host Institution Courses

[Add Course](#)

Course Code	Course Name	ECTS	Grade
INT-AB2-321	Object Oriented Software Development	4	A-

Bilkent Requirement

Course Type: Mandatory Course

All Fields Below are Required

Course Code	Course Name	Bilkent Credits	ECTS
CS319	Object Oriented Software Development	5	4

[Cancel](#)[Submit](#)

Equivalence Request #f8eec159-e18d-4335-b4b1-3305b333e510



Submission Date 18/12/2022 11:13

Form Status: Waiting

Form Information

Form Content

Student Details

Name	Borga HaktanBilen
Student ID	22002705
Department	Department of Computer Engineering
Email	haktanbilen@ug.bilkent.edu.tr
CGPA	3.71
Exchange School	Saarland University
Preferred Term	2022-2023 Spring Semester
Entrance Year	2020

Approvals

Role: Exchange Coordinator or Course Coordinator

Waiting

Submit Equivalence Request

Host Institution Course

Course Code

INT-B98-786

Course Name

'sychology of Innovation and Entrepreneurship

ECTS

5

Upload Syllabus

Psychology of Innovation and Entrepreneurship - AGH - SYLLABUS.pdf

Bilkent University Course

Course Type: General Elective

Course Code and Course Name are Optional

Course Code

PSYC115

Course Name

Psychology of Innovation

Bilkent Credits

4

ECTS

5

Additional Notes

Write your Additional Notes here...

Cancel

Submit

Pre-Approval Form #290c8542-4dd8-4117-ac9c-7163629b6ab0



Submission Date 18/12/2022 11:11

Upload Official Document

Form Status:

Waiting

File name:

Download Pdf

Upload Pdf

Delete Pdf

Form Information

Form Content

Decision

Your Decision

Your Comments & Extra Notes

Thank you for your determination.



Reject

Accept

F. Student View

ERSMS



Borga Haktan Bilen
Student



Dashboard

Forms and Requests

Dashboard

TODO List

Waiting Tasks

Starred Tasks

Completed Tasks

- ☒ Apply to the host university before the application deadline.
- ☒ Apply for a new passport or extend the existing one if necessary.
- ☒ Participate to the Orientation Program the OISEP organizes.
- ☒ Sign the Erasmus Grant Agreement with OISEP. (Latest 45 days prior to your travel)
- ☒ Open a EURO bank account at any Yapı Kredi Bank Branch, email the IBAN number and Branch name to OISEP. (Latest two months prior to your travel)
- ☒ Apply for an Erasmus Student Visa. (As soon as you receive your acceptance letter)
- ☒ Get an Extended Health and Travel Insurance, submit one copy to OISEP. (Latest two months prior to your travel)

Add New

Announcements

Can Alkan



Please submit your pre-approval forms until saturday midnight of 17.12.2022
18 12 2022 11:04

TODO List

Waiting Tasks

Starred Tasks


Completed Tasks

★ ☒ Apply to the host university before the application deadline.




Add New

ERSMS

  **Borga Haktan Bilen**
Student 

 Dashboard






 Forms and Requests

Forms and Requests

Create PreApproval Form

Create Course Equivalence Request

My Submissions

ID	Date	Type	Status
290c8542-4dd8-4117-ac9c-7163629b6ab0	18/12/2022 11:11	PreApproval Form	Waiting 
3a4de779-7b08-4317-8f21-8cd866b0e843	18/12/2022 11:16	CTE Form	Waiting
f8eec159-e18d-4335-b4b1-3305b333e510	18/12/2022 11:13	Course Eq. Request	Approved
1 - 3 of 3    			

G. Dean View

ERSMS

Nail Akar
Dean Department Chair

Forms and Requests

Logging

Forms and Requests

CTE Forms

Search

ID	Student	Date	School	Status
22002705	Borga Haktan Bilen	18/12/2022 11:16	Saarland University	Waiting

1 - 1 of 1

H. Chair View

ERSMS

Selim Aksoy
Dean Department Chair

Forms and Requests

Logging

Forms and Requests

CTE Forms

Search

ID	Student	Date	School	Status
22002705	Borga Haktan Bilen	18/12/2022 11:16	Saarland University	Waiting

1 - 1 of 1

Make Announcement

Logout

I. Swagger Web View

GET /api/PreApprovalForm/{id}

GET /api/PreApprovalForm/archived/all

GET /api/PreApprovalForm/archived/department/{userName}

GET /api/PreApprovalForm/nonarchived/all

GET /api/PreApprovalForm/nonarchived/department/{userName}

GET /api/PreApprovalForm/student/{studentId}

GET /api/PreApprovalForm/department/{userName}

POST /api/PreApprovalForm/coordinatorApprove/{formId}

POST /api/PreApprovalForm/fabApprove/{formId}

ToDoItem

POST /api/ToDoItem/{userName}

PUT /api/ToDoItem

GET /api/ToDoItem/getAll

DELETE /api/ToDoItem/{id}

GET /api/ToDoItem/{id}

PUT /api/ToDoItem/complete/{id}

PUT	/api/ToDoItem/star/{id}	▼
POST	/api/ToDoItem/addToAllDepartment/{department}	▼
GET	/api/ToDoItem/coordinatorToDoList/{userName}	▼
GET	/api/ToDoItem/studentToDoList/{userName}	▼
User ^		
GET	/api/User/{username}	▼
GET	/api/User/placedstudent/getall	▼
GET	/api/User	▼
PUT	/api/User/update	▼
DELETE	/api/User/delete/{username}	▼
GET	/student/{username}/sameSchool	▼

Schemas ^											
AnnouncementDto ▼ { <table> <tr><td>id</td><td>string(\$uuid)</td></tr> <tr><td>sender</td><td>string nullable: true</td></tr> <tr><td>title</td><td>string nullable: true</td></tr> <tr><td>description</td><td>string nullable: true</td></tr> <tr><td>creationDate</td><td>string(\$date-time)</td></tr> </table> }		id	string(\$uuid)	sender	string nullable: true	title	string nullable: true	description	string nullable: true	creationDate	string(\$date-time)
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sender	string nullable: true										
title	string nullable: true										
description	string nullable: true										
creationDate	string(\$date-time)										
ApprovalDto ▼ { <table> <tr><td>id</td><td>string(\$uuid)</td></tr> <tr><td>name</td><td>string nullable: true</td></tr> <tr><td>dateOfApproval</td><td>string(\$date-time)</td></tr> <tr><td>isApproved</td><td>boolean</td></tr> <tr><td>comment</td><td>string nullable: true</td></tr> </table> }		id	string(\$uuid)	name	string nullable: true	dateOfApproval	string(\$date-time)	isApproved	boolean	comment	string nullable: true
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name	string nullable: true										
dateOfApproval	string(\$date-time)										
isApproved	boolean										
comment	string nullable: true										
CourseDto ▼ { <table> <tr><td>courseCode</td><td>string nullable: true</td></tr> <tr><td>courseName</td><td>string nullable: true</td></tr> </table> }		courseCode	string nullable: true	courseName	string nullable: true						
courseCode	string nullable: true										
courseName	string nullable: true										
CreateMessageDto ▼ { <table> <tr><td>senderUsername</td><td>string nullable: true</td></tr> <tr><td>recipientUsername</td><td>string nullable: true</td></tr> <tr><td>content</td><td>string nullable: true</td></tr> </table> }		senderUsername	string nullable: true	recipientUsername	string nullable: true	content	string nullable: true				
senderUsername	string nullable: true										
recipientUsername	string nullable: true										
content	string nullable: true										

Full Swagger View [Link](#)