



ESN

Ticketing App 2.0

Students:

Milan Milivojčević, Dimitar Pelivanov

Mentor: dr. Tatjana Zrimec

Meet the team

Milan Milivojčević, Dimitar Pelivanov

- First/Second year Master students
- BSc in Computer Science
- Volunteers at ESN Primorska and ESN Slovenia

Dr. Tatjana Zrimec

- Department of Information Sciences and Technologies
- Research: Robotics, Artificial Intelligence, Machine Learning etc.



Briefly on ESN



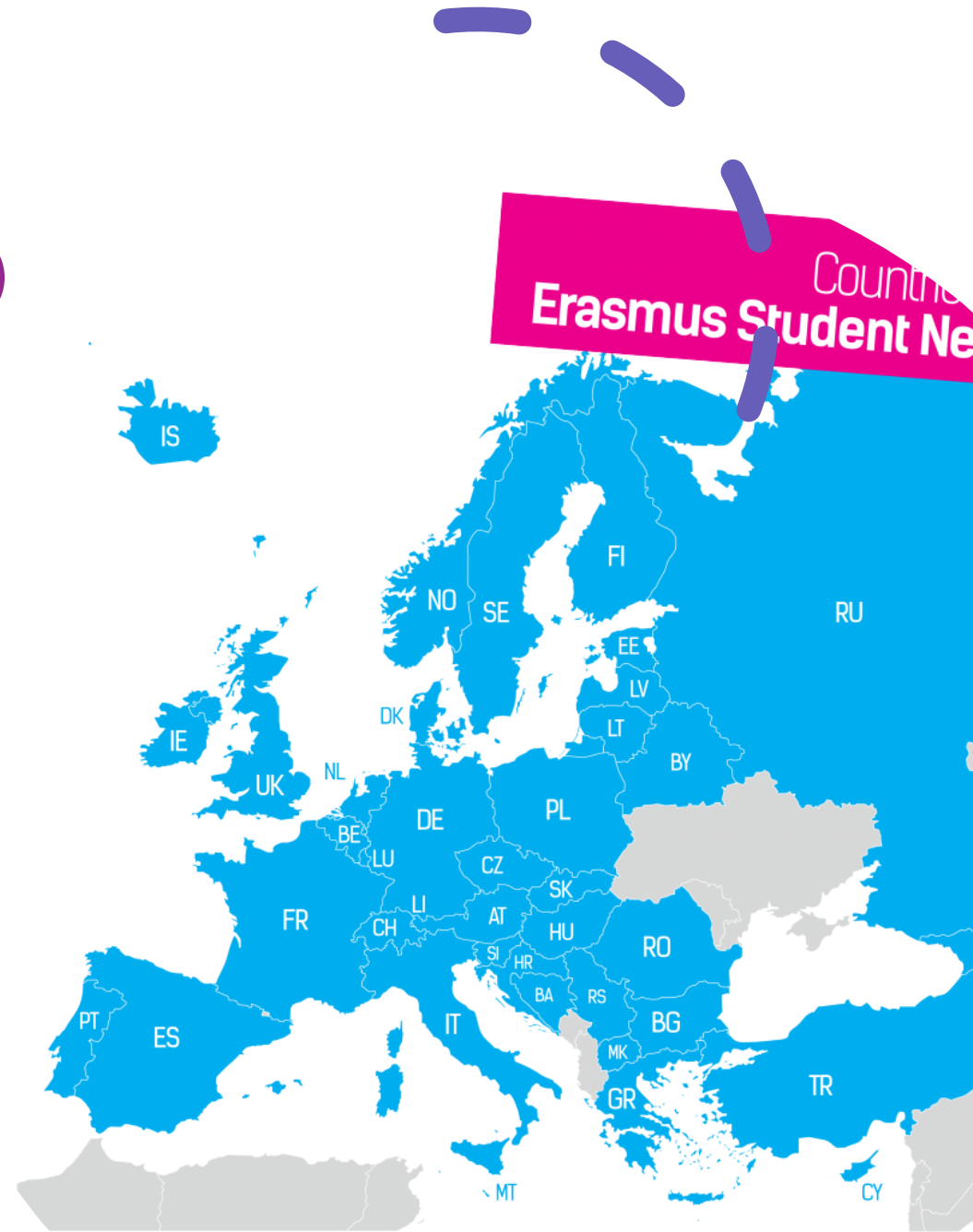
Erasmus Student Network (ESN) is one of the biggest student associations in Europe.

Three levels:

local sections, national sections, international board

- Works in the interest of international students
- Works to improve the social and practical integration of international students
- Motivates students to study abroad
- Organizes different activities (events, trips, workshops etc.)

Source: <https://esn.org/about>





Motivation for ESN Ticketing App

ESN has many tools, but there is no app that could aid the registration process. Yet, there are a lot of events.

 ESN Awards - IT category



Motivation for ESN Ticketing App 2.0

ESN has many tools, but there is no app that could aid the registration process. Yet, there are a lot of events.



ESN Awards - IT category

Problem definition

Current Event Registering process:



Problem definition

Current Event Registering process:



- Data gets lost ◀
- Time inefficient ◀
- A lot of manual work ◀
- Can't reuse the data ◀

Problem definition

Current Event Registering process:

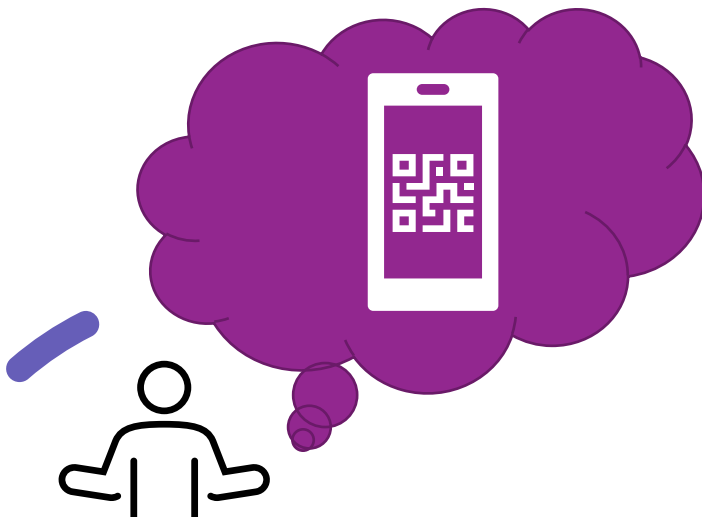


Data gets lost ◀

Time inefficient ◀

A lot of manual work ◀

Can't reuse the data ◀



Current Solutions

Don't satisfy requirements

- No personalization
- Manual input
- No option for section account

Limited (Paid)

- Limited tickets
- Time limitations
- "Unlock Feature"

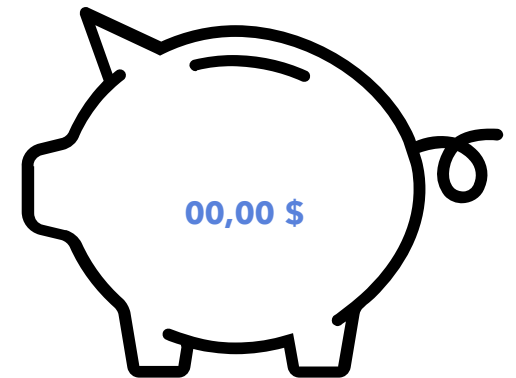
Current Solutions

Don't satisfy requirements

- No personalization
- Manual input
- No option for section account

Limited (Paid)

- Limited tickets
- Time limitations
- "Unlock Feature"



Our Solution (web-app)

Erasmus Student

- Create account
- See list of events
- Register to event
- Use ticket
- Leave feedback
- Online payment (with receipt)



Local/National Section

- Create account
- Create event
- View registrations
- Issue tickets
- Scan ticket
- Overview feedback
- See statistics

Our Solution (web-app)

Erasmus Student

Create account
See list of events
Register to event
Use ticket

Leave feedback

Online payment (with receipt)



Local/National Section

Create account (**authorize**)

Create event

View registrations

Issue tickets

Scan ticket

Overview feedback

See statistics

Already implemented

Frontend

Student ESN section



Login/Register



My profile

Update name,
password,
follow ESN
sections

Update name,
password,
location,
social media...



Events page

See events of
sections I follow,
select and
register to event

See events of
my section,
create event,
select and
update event,
see registrations



Ticket Wallet

Open QR tickets
to events I am
registered to and
eligible to attend



Scan Ticket

Scan student
ticket
Get status of
ticket



Our Goals

- Improve User Experience
- Online Payment
- Event statistics
- Deploy

Testing & Evaluation

Architecture

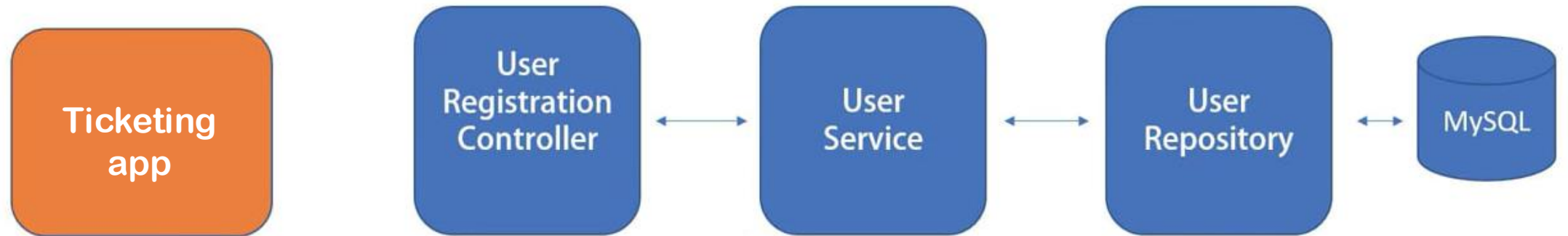


React Js Client

Spring Boot backend

Database

Architecture



React Js Client

Spring Boot backend

Django

Database

Technologies



More tools



Technologies

django

 **React**


MySQLTM

More tools




























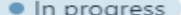



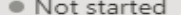





















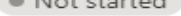





















 **Notion**

 **GitHub**

Project Seminar II

All tasks Board +

Sprint + Add filter

Aa Task name	Assignee	Sprint	Status
 Write project proposal	 Milan Milivojcevic  Dimitar P.	 Sprint 1	
 Schedule kick-off meeting	 Milan Milivojcevic  Dimitar P.	 Sprint 1	
Requirements <input type="button" value="OPEN"/>	 Dimitar P.  Milan Milivojcevic	 Sprint 1	
Evaluate ESN Ticketing App 1.0	 Dimitar P.  Milan Milivojcevic	 Sprint 1	
Creating Intro Presentation	 Milan Milivojcevic  Dimitar P.	 Sprint 2	
Update CRUD For Users in Django	 Dimitar P.	 Sprint 3	
Update CRUD For Tickets in Django	 Milan Milivojcevic	 Sprint 3	
Update CRUD For Events in Django	 Dimitar P.  Milan Milivojcevic	 Sprint 3	
Update GUI of user profile page	 Milan Milivojcevic	 Sprint 4	
Add admin permissions	 Dimitar P.  Milan Milivojcevic	 Sprint 4	
Update DB with the respect to requirements	 Milan Milivojcevic  Dimitar P.	 Sprint 4	
Create user section only as admin	 Milan Milivojcevic	 Sprint 4	
Add option to share event on social media	 Dimitar P.  Milan Milivojcevic	 Sprint 5	
Update Scan code functionality	 Dimitar P.  Milan Milivojcevic	 Sprint 5	
Registration, OAuth, via Social Media	 Dimitar P.	 Sprint 6	
Invoice generator pdf	 Dimitar P.  Milan Milivojcevic	 Sprint 6	
Event analytics (Event Attendance)	 Dimitar P.  Milan Milivojcevic	 Sprint 7	
Online payment	 Dimitar P.	 Sprint 7	
 Review research results	 Milan Milivojcevic	 Sprint 8	
Testing the app	 Milan Milivojcevic	 Sprint 8	

Credits to
Karolina
Trajkovska



A collection of decorative geometric shapes in blue and purple. At the top left, there is a blue circle and a blue triangle. In the center, a large purple circle contains the text "Thank you!". At the bottom, there are several blue lines and a purple circle, suggesting a stylized smile or a graphic element.

Thank you!