



ESN WebApp

ESSENTLS Web Application Computer Engineering M.D.

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Requirement Gathering



What's ESN?

Is a **non-profit organization** that supports and promotes the **mobility of students** in higher education.



What are their needs?

A centralized and easy to access and maintain **managerial software** in order to manage their **member** and the various **event** they organize.



Current Process - Pain Points



Only cash payment for the ESNcard

- Handwritten receipt
- Hard to maintain Google Sheet
- Use of Google Form
- Event managed through a

Facebook group





Main features





- Membership empowerment
- Management



FOR EVENTS

- Visibility
- Payments
- User interaction



User Tiers





Tier 0: Basic User

Tier 1: ESN Member

Tier 2: Aspiring Volunteer

Tier 3: Active Volunteer

Tier 4: System Admin



Work organization



Bitbucket: git repository

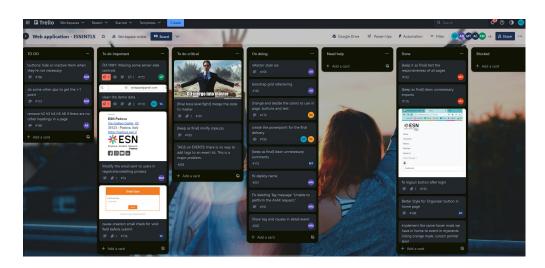


Whatsapp and Discord: meeting and chatting





Trello: tickets, fixes and hierarchy





Project structure





Frontend: Bootstrap, CSS,

HTML, JS

Backend: Java

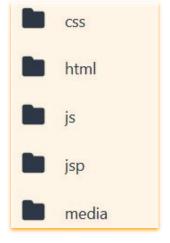
Database: Postgres 15

Web server: Apache Tomcat

Backend



Frontend





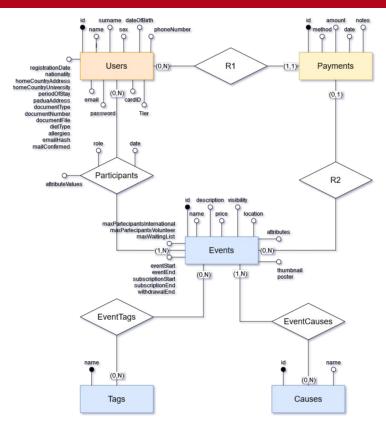
Database



ER diagram



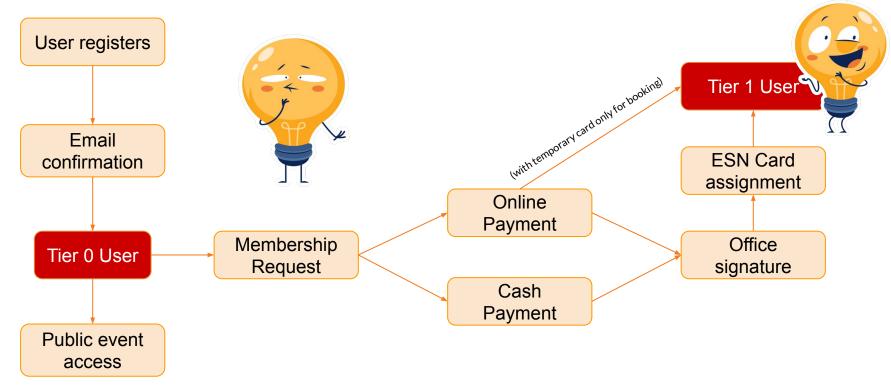






User interaction flow

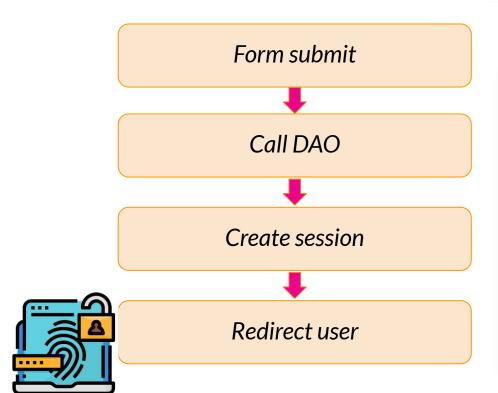




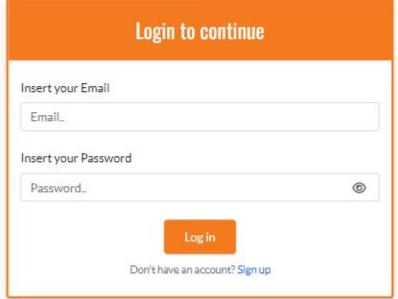


Authentication





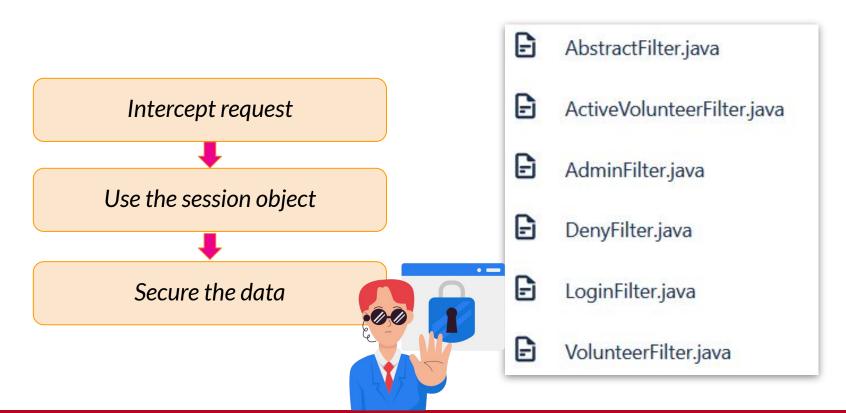
Welcome to ESN!





Filter

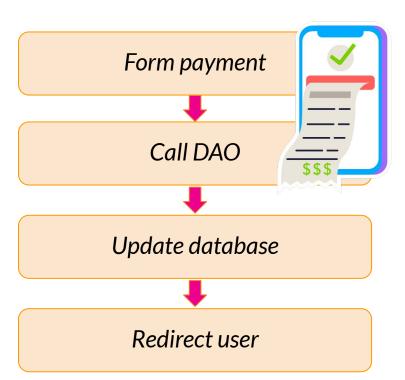


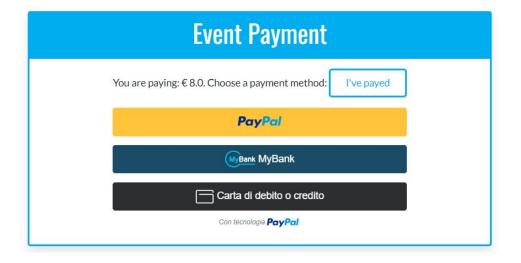




Payment









Webapp special features





Responsive Design

Is optimized for different screen sizes such as laptops, desktops, and mobiles.

REST API

The APIs are utilized on pages for administrators to manage the resources.

AJAX



Some pages have some AJAX controls to make the interaction smoother.



Homepage



Finding specific events is made easier

Search by:

- Tags
- Causes
- Names
- Locations
- Descriptions











Admin tools



In the navigation the admin have the "Admin Manage".

These options are only accessible to administrators (Tier 4) and active volunteers (Tier 3).

