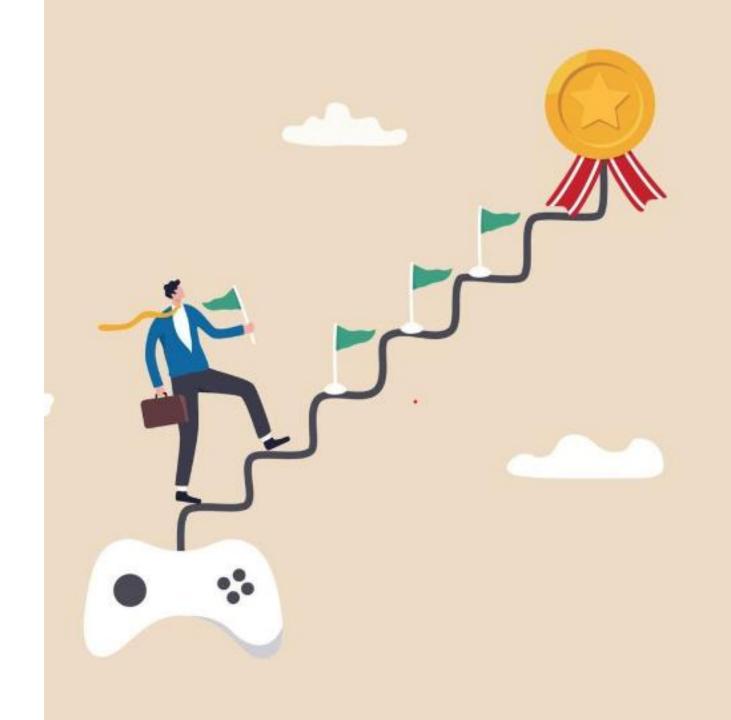
Enhancing Learning Experiences: A Dynamic Approach to Interactive Web Environments

Author, Horvath Krisztina-Aliz Surpervisor, Lect. Dr. Surdu Sabina

I. Motivation and Description

- Most gamified learning platforms offer non-customizable experiences
- Gamification is effective in enhancing learning experiences
- Some students aren't enticed by game elements → customization is key



II. Other Gamified Educational Platforms

TRAKLA2

Leaderboards

interacted 26.91

more times with

their project

Students

WIKIMEDIA

levels, and leaderboards

Most were motivated, though a few were not

Vula

Achievement badges

8% found badges disruptive

Points, badges,

Moodle

didn't like the storyline or

and visuals

Leaderboards,

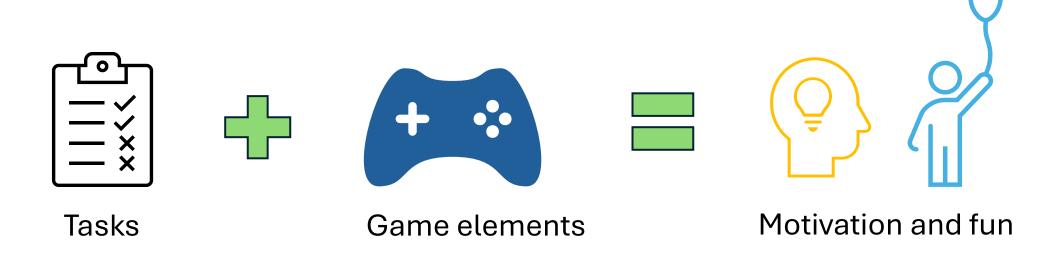
badges, progress

bars, a storyline,

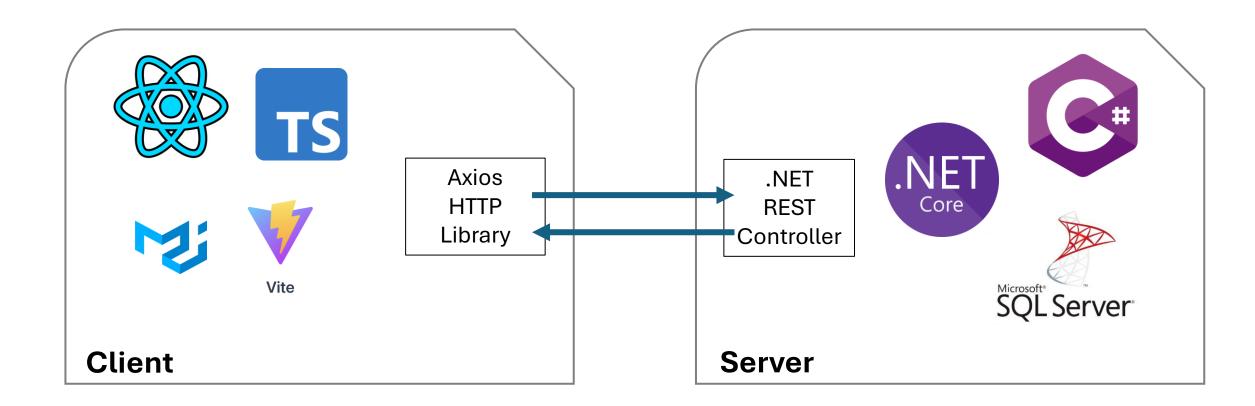
Some students visuals

III. What is gamification?

- Software that draws inspiration from video games is referred to as gamified
- "The use of game design elements in non-game contexts" S. Deterding et. al.

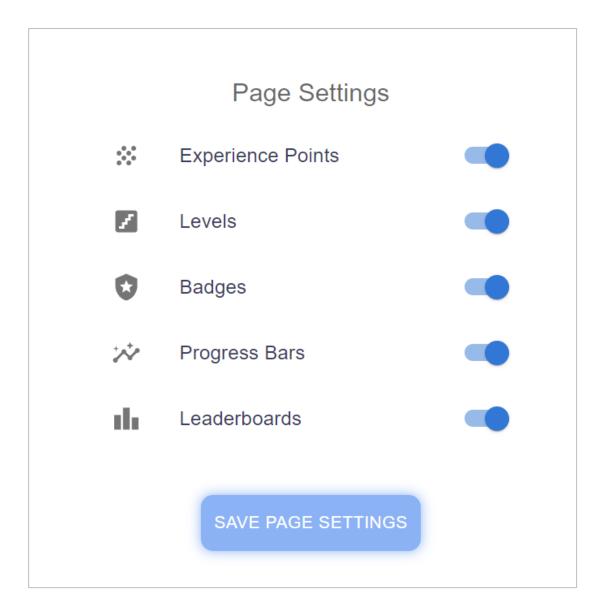


IV. Implementation



Gamification Features

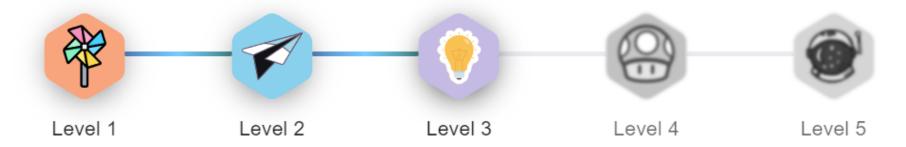
- Students can customize their experience
- They can choose which gamification elements to enable/disable in the platform
- Can be changed any time without any restrictions



Points, Levels, and Progress Bars

59%

You have completed **59%** of the course work.



You have 1764 XP. You need an additional 186 XP to reach Level 4.

Badges



Windmill Wizard

Embark on an epic journey of knowledge!

A gift for taking your first step.



Level-Up Legend

Power up your knowledge! Unlocked at 1950XP.



Paper Plane Pilot

Fold your way to success!

Unlocked at 600XP.



Galactic Guru

Rocket through learning milestones! *Unlocked at 2850XP.*



Idea Illuminator

Brighten your path with brilliant insights!

Unlocked at 1200XP.



Deadline Dominator

Tick-tock, beat the clock!

Unlocked after presenting 75% of assignments

before the deadline.

Leaderboards





Dedrick_Okuneva

Points: 3000 XP

Level: 5















Adelia68

Points: 2703 XP

Level: 4













Lavern.Strosin

Points: 2631 XP

Level: 4











V. Demo



Recap Of The Features

Student features:

- Enroll to course
- View course data
- View assignments
- View grades
- Enable/disable game elements (points, badges, levels, leaderboards, and progress bars)

Common features:

- Register and log-in as teacher/student
- Update password
- Edit user profile
- Delete account

Teacher features:

- Add/update/delete courses
- Generate enrollment key
- Add/remove teacher to/from course
- Remove student from course
- Add/update/delete assignments
- Grade student assignments
- Export grades as CSV file
- Import grades from spreadsheet

VI. Preliminary Study









Feedback item	0	1	2	3	4	
The interface of the gamified LMS seems user-friendly.	0%	0%	0%	67%	33%	
The gamification features would motivate me to learn.	0%	0%	33%	67%	0%	
The LMS would enhance my overall learning experience.	0%	0%	33%	67%	0%	
I value the LMS's customization features.	0%	0%	0%	17%	83%	
I would like the LMS to be used at my courses.	0%	0%	0%	33%	67%	

VII. Conclusions, Limitations and Further Work



The aim of the gamified learning management system is to enhance learning experiences and student engagement through a user-centered approach.



Only a preliminary study was conducted.



Comprehensive evaluation in the future.

THANK YOU!