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исследовательский университет ИТМО»**

Факультет: Программной инженерии и компьютерной техники

ПРОЕКТ

По дисциплине:
«Веб-программирование»

На тему:
«GAMACE – Java web-application»

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Introduction

Currently, the e-sports industry is developing very strongly. But the source of income for professional players is still very precarious. If you are not a top player, paid by advertising contracts, it is very difficult to earn enough income to cover life. So GAMACE was conceived to partially solve this difficulty. Professional gamers will be able to earn extra income from their talent, and players looking to improve their skills will also have a community to join.

1 Idea & Goals

1.1 Idea

GAMACE = GAME + ACE

GAMACE is a social network website dedicated to video game fans, which allows users to connect with other players, book individual online lessons with professional players, or become a gaming coach. It helps professional players have more sources of income, and creates conditions for gamers to improve their skills.

1.2 Goals

The main goal of this project is to make an online social networking site, to achieve this goal, the following tasks need to be solved:

- Learn how to create web applications.
- Analyze similar websites.
- Functional model (Use Case) development.
- Database model development.
- UI model development.
- Complete the code.

2 Content

2.1 Comparative analysis

I will analyze the following 3 similar sites:

+ **gamersensei.com**: This is the world's premier esports coaching platform. They belong to corsair (a leader in gaming gear ranging from cases to peripherals and components to streaming equipment) so they have a very large network of trainers who are professionally trained and tested.

+ **gamercoach.com**: This website is developed by PSG (a football club that is encroaching on its influence in the field of e-sports). Their coach selection process is very rigorous and professional: To be listed on the GamerCoach platform, all coaches have been evaluated upstream by breeders on very strict criteria such as their technical skills, their pedagogical skills or their ability to share their expertise. However, because it focuses mainly on FIFA games, the interface of the website is completely based on the concept of FIFA games, so it is difficult to reach users in other games.

+ **metafy.gg**: This is a successful startup web project. Because there is no need to go through the rigorous selection tests like the above websites, this website has a large team of coaches, spanning many games. With more than 120 games supported and more than 1000 training pellets.

Name	gamersensei.com	gamercoach.com	metafy.gg
Supported Games	13	10	120
Visual	10/10	8/10 (in the style of the FIFA game, difficult to approach and get used to for gamers of other games)	9/10
Classify coaches based on level of expertise	+	-	+
Classify coaches based on forte role/champion	+	-	+
Reviews of people who have attended the course	+	-	-
Chat	+	-	+
Community(Blog, news)	+	-	-

2.2 Use Cases

A use case is a written description of how users will perform tasks on your website. It outlines, from a user's point of view, a system's behavior as it responds to a request. Each use case is represented as a sequence of simple steps, beginning with a user's goal and ending when that goal is fulfilled. Use cases add value because they help explain how the system should behave and in the process, they also help brainstorm what could go wrong. They provide a list of goals and this list can be used to establish the cost and complexity of the system. Project teams can then negotiate which functions become requirements and are built. Create a "Use case diagram", help me visualize exactly what needs to be done.

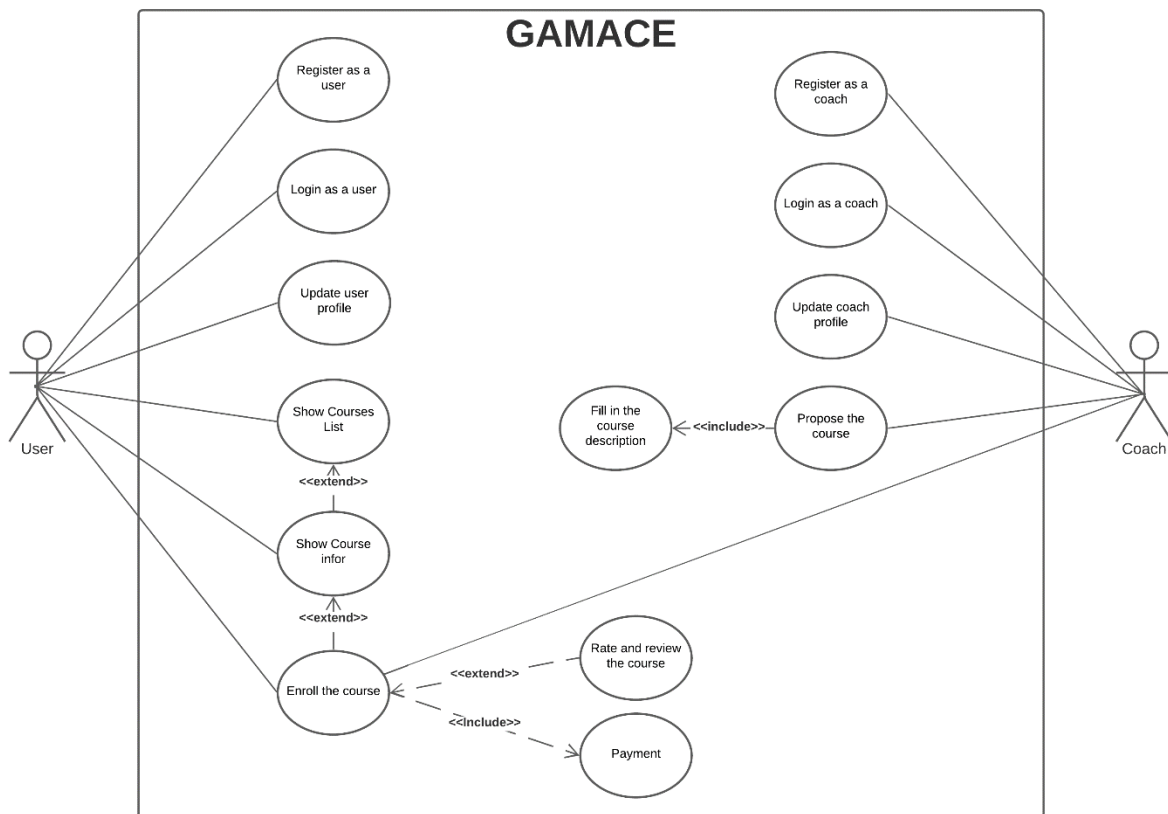


Image 1: UseCases Diagram

2.3 Database

A database model is needed to indicate objects and relationships, constraints, rules, and operations to indicate the data semantics of a specific subject area. Generally, the database model establishes relationships between certain objects.

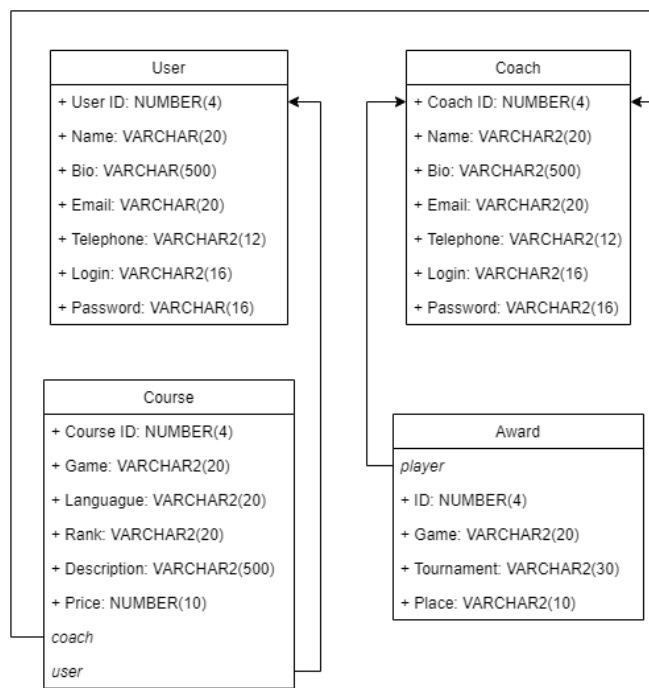


Image 2: Database model

2.2 UI

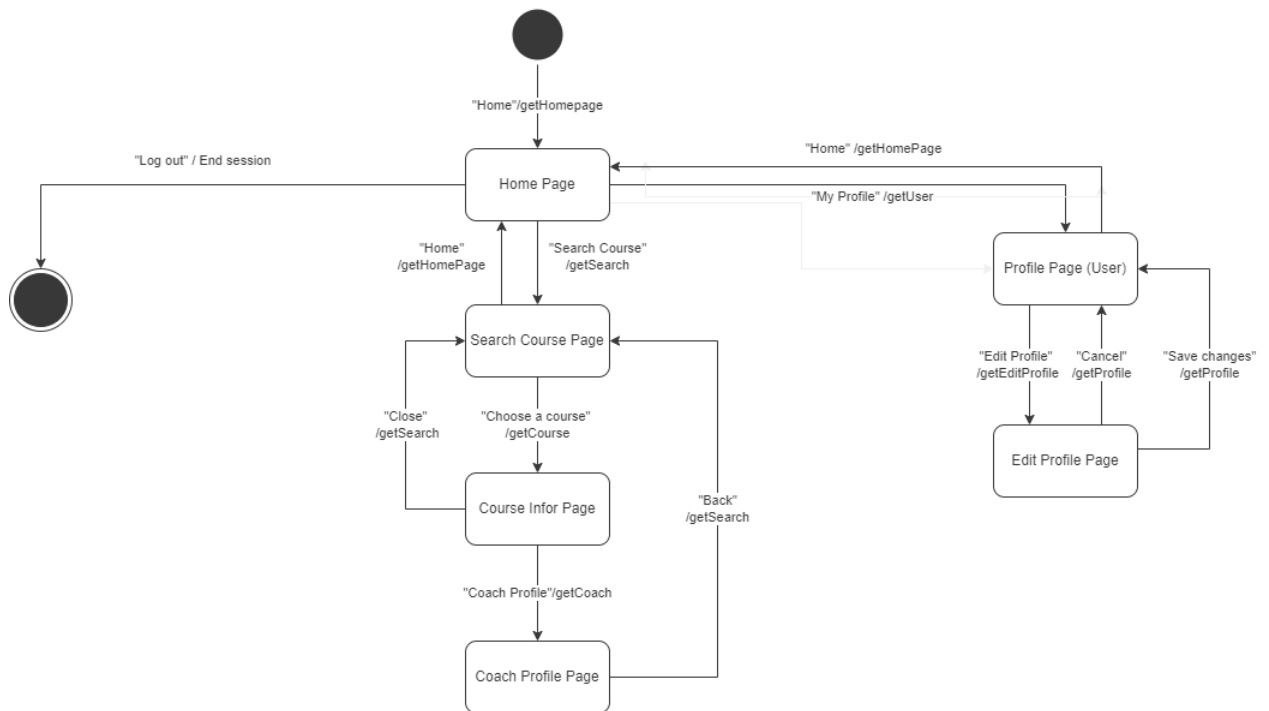


Image 3: Interface diagram of Actor User

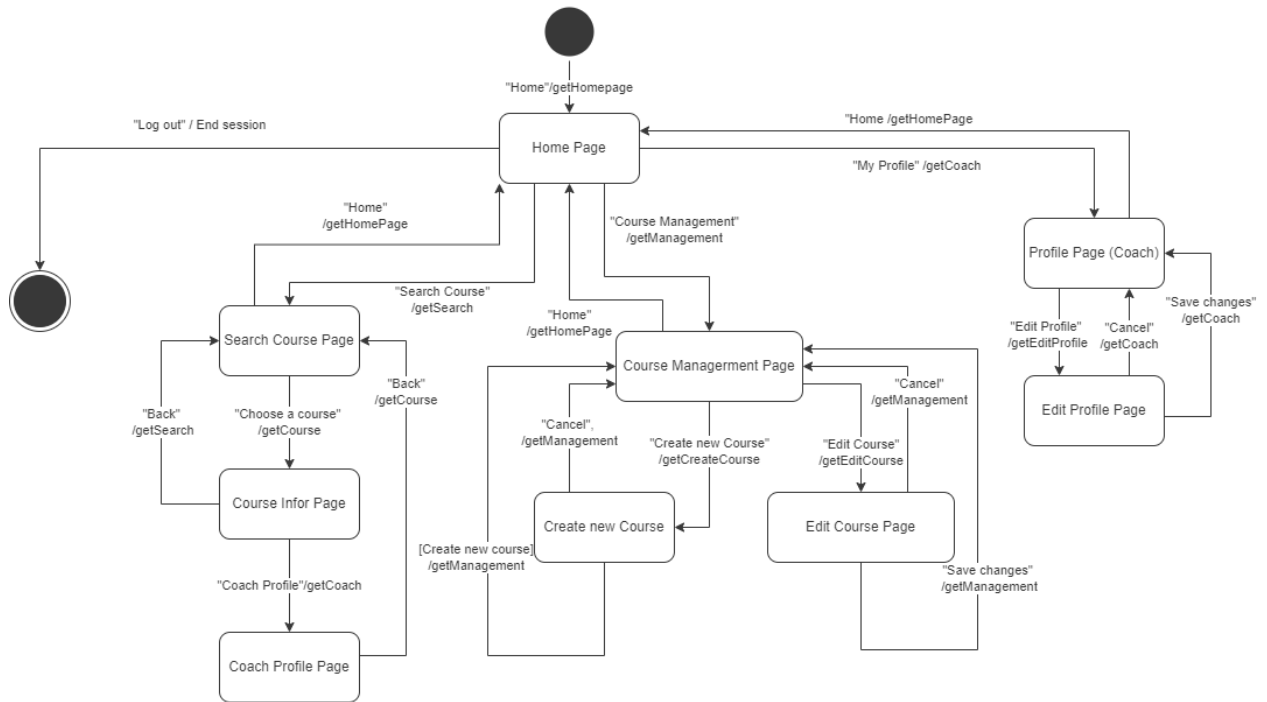


Image 4: Interface diagram of Actor Coach

3 Ppactical part

3.1 Software selection

3.1.1 IntelliJ IDEA

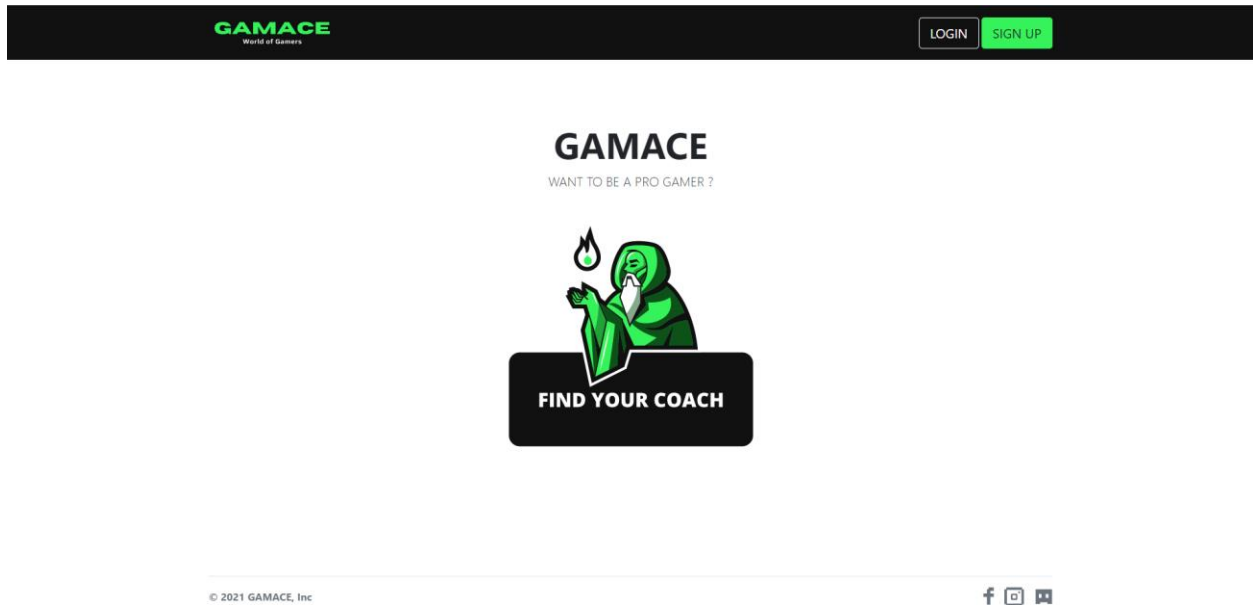
IntelliJ IDEA is undoubtedly the top-choice IDE for software developers. Efficiency and intelligence are built into the design, which enables a very smooth development workflow experience, from design, implementation, building, deploying, testing, and debugging, to refactoring!

3.1.2 Mysql

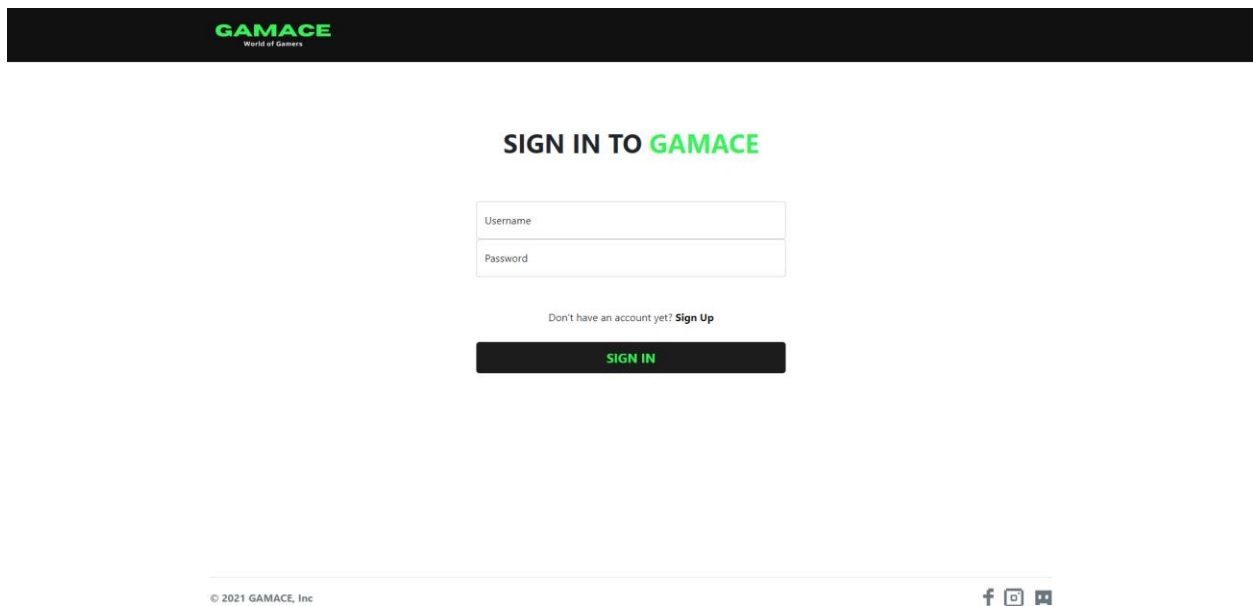
One of the reasons MySQL is the world's most popular open source database is that it provides comprehensive support for every application development need. ... MySQL also provides connectors and drivers (ODBC, JDBC, etc.) that allow all forms of applications to make use of MySQL as a preferred data management server.

3.2 User manual

Initially if you are not logged into the system, you will not be able to use the webapp features.



It's login page.



To sign up for GAMCE, you have to fill in all basic information. You can choose to register as a user or become a coach.

GAMACE
World of Gamers

SIGN UP FOR GAMACE

Username

username

Password

password

First Name

FirstName

Last Name

LastName

Email

name@example.com

Phone Number

+79999999999

Role

User

Game

League of Legends

Language

German

Have an account? [Sign In](#)

SIGN UP

This is your profile page. This will display all the basic information and there is a button to take you to a page to edit this information.

GAMACE
World of Gamers

Dashboard

Roberto Henderson

#user1 (USER)

Game

LEAGUE OF LEGENDS

Language

Contact

ABOUT

This is my description about myself

Edit

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[f](#) [i](#) [m](#)

In EditPage, you can add another social network link, and update a new bio.

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Dashboard

Edit your information

First Name

Roberto

Last Name

Henderson

New Password

Email

roberto.henderson@example.com

Phone Number

(956)-189-9700

Game

lol

Language

ru

Bio

This is my description about myself

Facebook profile

thienkaitouz

Instagram profile

thienkaitouz

Cancel

Save changes

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[f](#) [i](#) [t](#)

This is the main service of GAMACE. You can search and choose a course that matches your criteria.

GAMACE
World of Gamers

Dashboard

Search by Coach's username

Language
Choose your game

Game
Choose your game

Rank
Choose the rank

Min price
0

Max price
1000

Search

DOTA2

Margaret D. Navarro

coach4

\$100

I have more than 5 acs with 6000+mmr; Had coaching experience with tier 3 team; Always adap

Read more

Enroll

DOTA2

Donald F. Alvarez

coach5

\$300

Hello

Read more

Enroll

Apex Legends

Franklin West

coach2

\$200

- Coach for 3 Years. Shotcaller. Leader

Teamfight Tactics

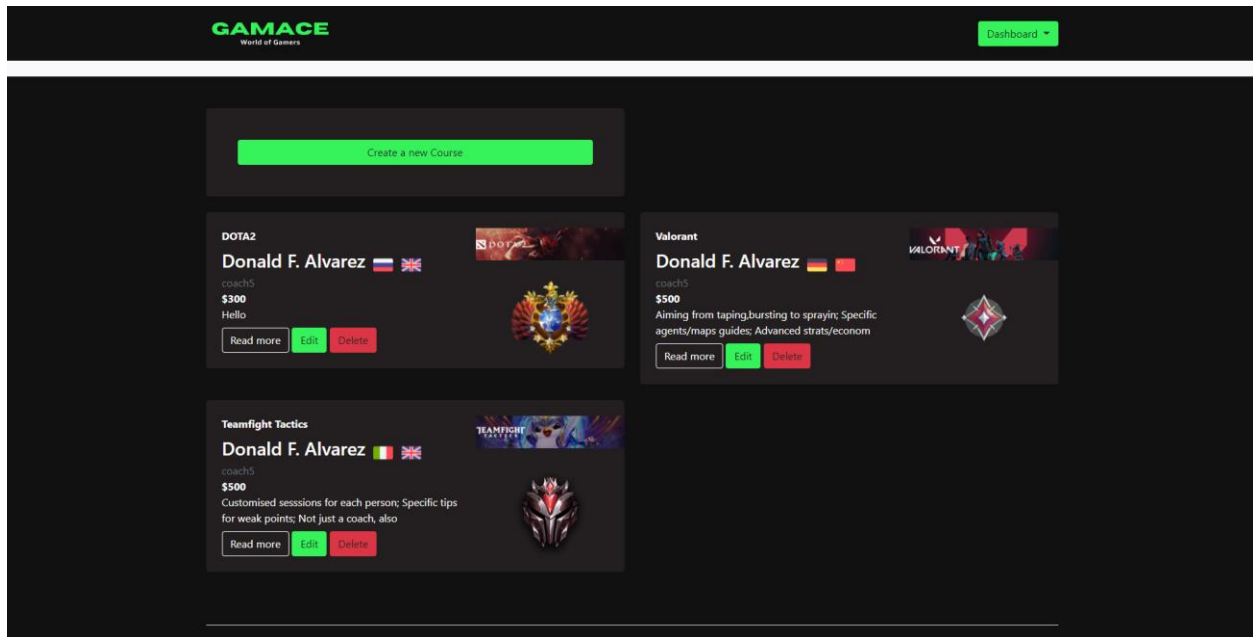
Jeremy N. Casas

coach3

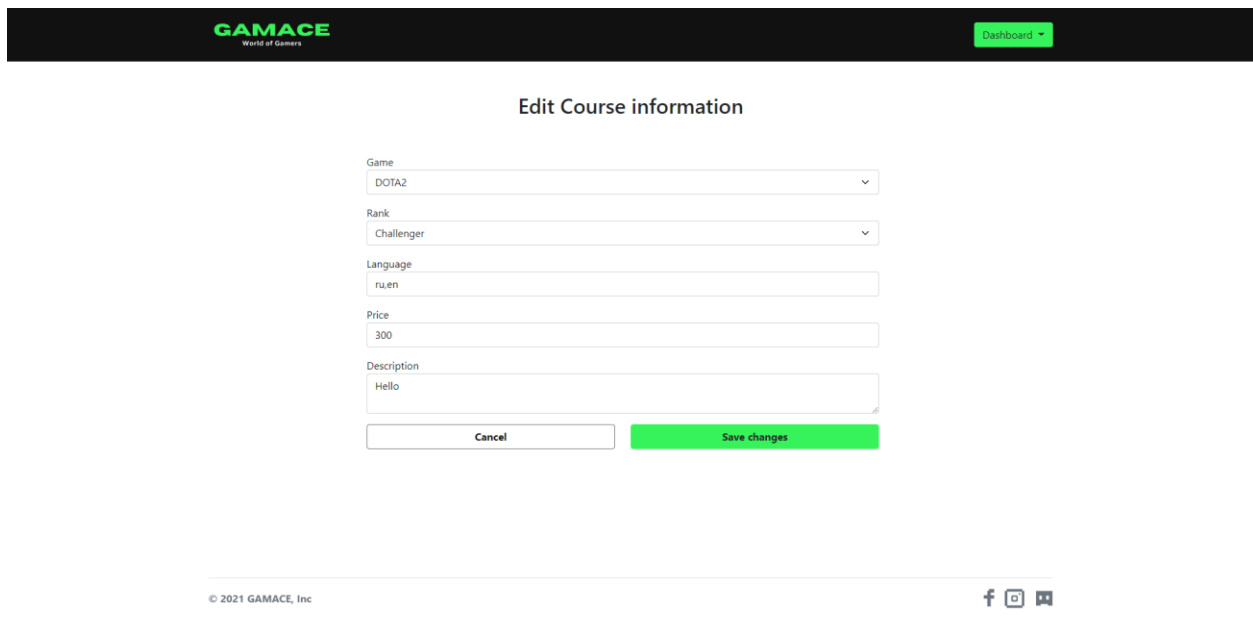
\$400

Explanations that are easy to understand:

And this is page only for coach – CourseManagement. From here you can purpose new course or change its information, or even delete it.



This is interface of the page that help you change your course information.



And a page have you create and purpose a new course.

Create a new Course

Game
League of Legends ▾

Rank
Challenger ▾

Language
en

Price
100

Description

Create

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List of sources

- <https://getbootstrap.com/docs/5.0/getting-started/introduction/>
- <https://www.baeldung.com/>
- <https://www.jetbrains.com/idea/>