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Timetables for training camps

Home project

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Author's declaration of originality

I hereby certify that I am the sole author of this thesis. All the used materials, references to the literature and the work of others have been referred to. This thesis has not been presented for examination anywhere else.

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Introduction

In recent years, the organization of camps has become increasingly popular among individuals seeking unique and enriching experiences. However, the manual coordination of participants and scheduling of activities can often be burdensome and time-consuming. To address this challenge, project aims to develop a system for automating timetables for training camps.

The primary objective of our project is to streamline the planning process for organizers by providing them with a user-friendly platform to input participant information and generate optimized activity schedules. By automating this process, we seek to enhance the efficiency and effectiveness of camp, ultimately leading to more enjoyable and fulfilling experiences for participants.

Overview

The aim is to automate the creation of training schedules, with a focus on tennis, beach tennis, and paddle tennis. Schedules can be generated based on the number of courts available, player preferences, and the number of coaches. Players are put into teams, teams can have up to 4 members. When generating new schedules, the program takes into account that players on the same team prefer to play on the same court. Players can specify the sport they want to play, their skill level, and their preferred time slots for playing. For example, some may prefer evenings over mornings. Each player has hours count to ensure they receive the full value of their payment. Coaches can also indicate the sports and skill levels they coach. The schedules are designed to ensure that there are not any overlapping game times for players participating in multiple sports. Convenient display of schedules for players and easy access to their own playing times are ensured.

Automating the scheduling process significantly reduces the time spent by organizers and minimizes errors. Players benefit from accurately generated schedules that are easily accessible. It becomes particularly time-consuming to create schedules when player preferences change, requiring manual adjustments to the tables.

The motivation behind this project is the prospect of offering the solution to acquaintances facing similar challenges, potentially charging for the service. Furthermore, there is a possibility to expand the system in the future, such as by adding tournament management capabilities.

UI

Player flow screens

User login/register

Login / Register

Username

Password

Creating a new user

New User

First Name

Last Name

Email

Age

Gender

Default role: player

Choosing a camp

Contest

ContestPackage

Creating a team

TeamName

☐ GameType

☐ Level

TimesAvailable

☐ Morning

☐ Lunch

☐ Evening

The organizer creates schedules

Viewing schedules

User Games

Game 1 ...

Game 2 ...

Game 3 ...

Game 4 ...

Organizer flow screens

Generate new timetables

Contest

Courts

Alates

1.Day Times

Teachers

Teams

Kuni

2.Day Times

3.Day Times

Generate

Edit timetables

Court 1	Court 2	Court 3
Teacher	Teacher	Teacher
Players	Players	Players
Court 4	Court 5	Court 6
Teacher	Teacher	Teacher
Players	Players	Players
Court 7	Court 8	Court 9
Teacher	Teacher	Teacher
Players	Players	Players

Done

ERD Model

