

TALLINN UNIVERSITY OF TECHNOLOGY
School of Information Technologies

Mari-Ann Piht 212340IADB

Dance Group Management Application

Web Applications with C# Project

Supervisor: Andres Käver

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Author's declaration of originality

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

Author: Mari-Ann Piht

22.02.2024

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1 Introduction and overview of the application

The goal of this project is to create an application to easily manage a dance group and its members. I have been a member of a folk dance group for almost 20 years. In addition to being a dancer, I have organised events and helped out with administrative things, so I've also seen the kitchen side of group management.

The member management is still done on Excel sheets with new worksheets created separately each year and data copied over or added as necessary. Costume lending is also done in a very old fashioned way – there is a physical notebook that is used to keep track who has what items and accessories. Every year some items are lost or somebody forgets to return something and it can be hard to track down who is responsible.

The dance group management application can solve these problems. My aim is to create an app that makes the day-to-day management easier for teachers and group leaders and can also give dancers necessary information about upcoming events and practices.

First thing to do when using the application is for the group manager to create an account for themselves and then register their dance group/company. After that it's possible to add members and divide them into groups. Every group can elect a group leader that has additional privileges in the app, such as creating events.

Event management is another important feature of the application. Teachers and group leaders can add necessary events that can be of different types. There can be dance practice events that are recurring and happen every week at a specific time, or there can be performances that are one-time things. In addition, social events for one or several groups can be created.

The front page (Figure 1) after logging in shows information about upcoming events. These are filtered according to the position a user has in the dance group. A teacher sees everything relating to the groups they are teaching, dancers see the information about the group that they belong to. It is possible to assign one or several groups to an event to

make it visible for the people in these groups. There are also some things that everyone sees such as upcoming birthdays.

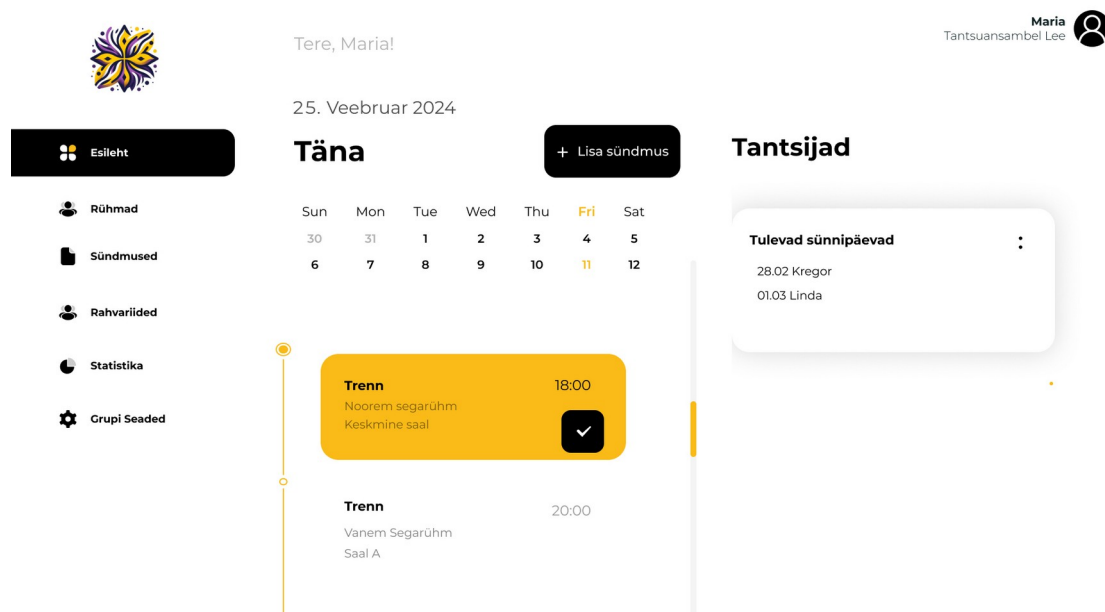


Figure 1: Front page

A statistics feature is also planned in the app. It brings together data about the dance group as a whole, but also for each group and dancer separately. Every year we celebrate those dancers who have showed up for practice the most times throughout the season. At the moment we use Excel sheets to gather that information, but in the future, the statistics page would be the place to go.

Another important page of the application is where one can see all upcoming events (Figure 2). If the user has the right privileges, it is possible to add an event from that page (Figure 3).

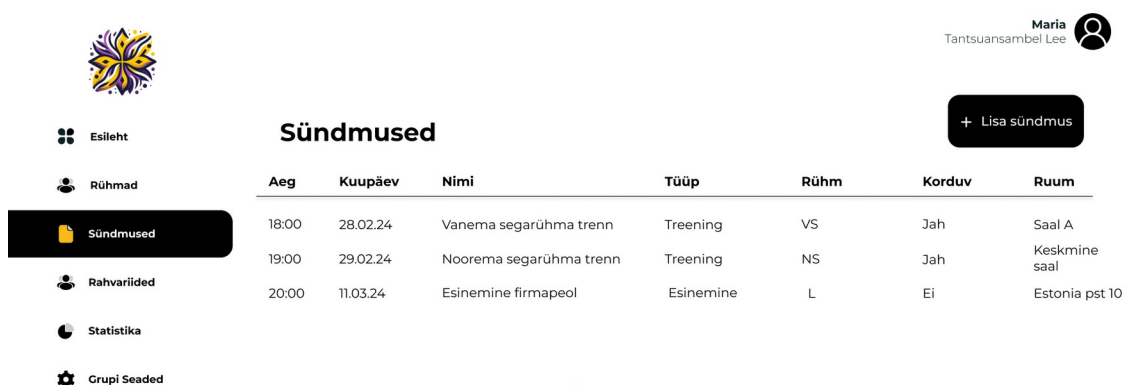




Figure 2: Events page



Maria
 Tantsuansambel Lee
 

Esileht

Rühmad

Sündmused

Rahvarlided

Statistika

Grupi Seaded

Sündmuse lisamine

Nimi

Kirjeldus

Aeg

Asukoht

Salvesta

Tühista

Figure 3: Adding an event

There should also be an option for registering for certain types of events such as performances. This is done so that teachers can see who is available for a specific event and they can plan the dances and costumes accordingly.

Another important feature that I want to add is the costume lending functionality. As an initial work that needs to be done, all items of clothing and accessories should be catalogued and put into the database. After that it is possible to record the borrower's details next to the item and assign a due date for bringing the item back. When someone looks at the table of borrowed items, the ones where the due date has passed are shown first (Figure 4) to bring attention to them.



Maria
 Tantsuansambel Lee
 

Esileht

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Rahvarlided

Statistika

Grupi Seaded

Rahvariiete ladu

+ Lisa ese

Number	Nimi	Tüüp	Laenutaja	Laenutatud	Tagastuse tähtaeg	Tagastatud
11	Muhu seelik	Seelik	M. Maasikas	02.02.2024	10.02.2024	Tähtaeg üle!
2	Pärnu-Jaagupi vest	Vest	K. Kustas	11.02.2024	28.02.2024	
9	Tori vöö	Vöö	P. Pakiraam	02.02.2024	10.02.2024	10.02.2024

Figure 4: Costume lending page

Ideally, the process of lending costumes would be streamlined through the use of QR codes, enabling to create a link between the item and its recipient on-site. This would mean QR code stickers need to be printed out and attached to each item or the item's package, but the process itself should be very smooth when fully functional. However, it remains uncertain at this moment whether I have enough time to implement this feature as part of the current subject's project.

2 ERD Schema

