

TALLINN UNIVERSITY OF TECHNOLOGY

School of Information Technologies

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ITAXI WEB APPLICATION

Project in Construction of Distributed Systems (ICD0021) and
ASP.NET Web Applications (ICD0015)

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1 Introduction

According to the recent studies there are 133 679, which makes 10% of the total population, people with different disabilities, living in Estonia.[1] Most of the disabilities decrease a person's mobility and ability to move independently outside their own home. The adjusted taxies, that are customized to meet the needs of customers with a reduced mobility, are one way to help this group of society, which increases in numbers every year, to be valued members of society, which also can be spotted as the regular ordering of the adjusted transport keeps increasing in numbers year by year. Not only is this service meant for the people with physical impairment but it can be used by anyone who is unable to use a public transport or own a vehicle due to a health condition.

The problem, which was described, can be heavily striking at the countryside and smaller cities, which aren't near to any bigger cities and where the opportunities to have transport, that qualifies and meets the requirements of such service, are bare minimum or non-existing, then the need of taxi service that would be available all over the country, is growing faster than ever before.

An ITaxi application, which will be created as a final project for the subjects "Building Distributed Systems" and "ASP.NET Web applications", will allow the costumers to order a taxi through an online form, which will help to offer a personalized, pleasant and secure taxi drive.

An order is made by a customer. The order can be cancelled and if the order has been successful, a confirmation email will be sent to the customer's email address. The confirmation email, which will be sent to the customer's email address, will contain all the details about the drive.

The application will have *Must have* functionalities, which are essential for the application to work, and *Nice-to-have* functionalities, which will add a surplus value, however the main functionality must work to the full extend even without the *Nice-to-have* functionalities fully working.

Must have functionalities

Customer's side:

- Customer can create an account
- Customer's information is saved and visible to a customer on the page named profile
- Customer can view the orders
- Customer can make an order
- Customer's order is saved in a database
- Customer can modify an order
- Customer's modifications to an order are saved in a database
- Customer can decline an order
- After the taxi drive customer can add a comment about the drive

Driver's side:

- Can view their profile
- Can change their data
- Can see their vehicles
- Can view their drives
- Can confirm their drives
- Can sort their drives by type and date

Administrator 's side:

- Can manage all the accounts

Nice to have functionalities

Customer's side:

- Can convert their bookings into a pdf file

Driver's side:

- Can convert their schedule into a pdf file

2 Entity Relationship Diagram

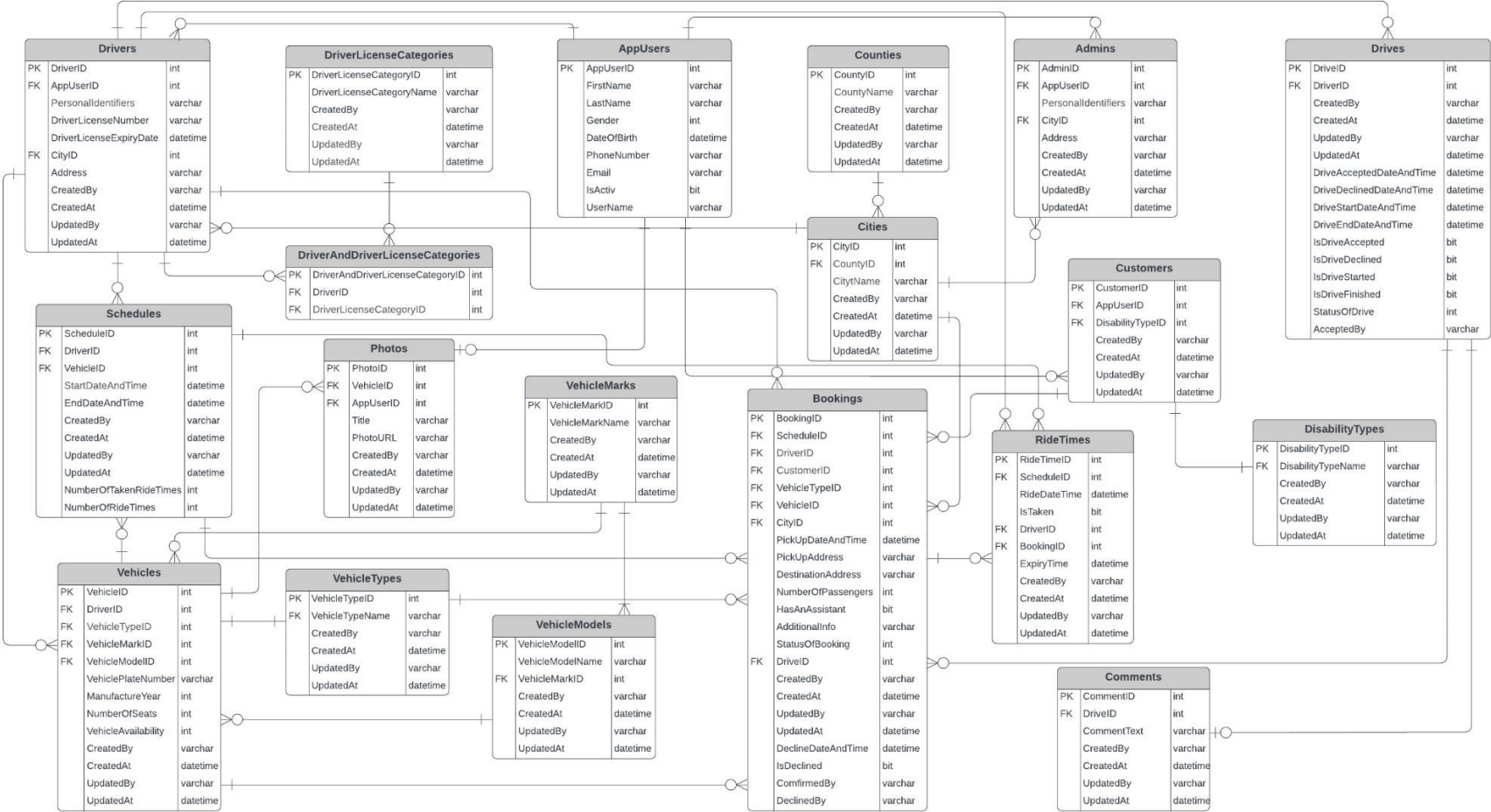


Figure 1. ITAXI Entity Relationship Diagram.

3 Views



Figure 2. Index page in EE.



Figure 3. Index page in EN.

References

- [1] „THV21: PUUDEGA INIMESED, 1. JAANUAR | Maakond, Aasta ning Näitaja,“ 18.02. 2023. [Võrgumaterjal]. Available: https://andmed.stat.ee/et/stat/sotsiaalelu__tervishoid__puudega-inimesed__uldandmed/THV21/table/tableViewLayout2.