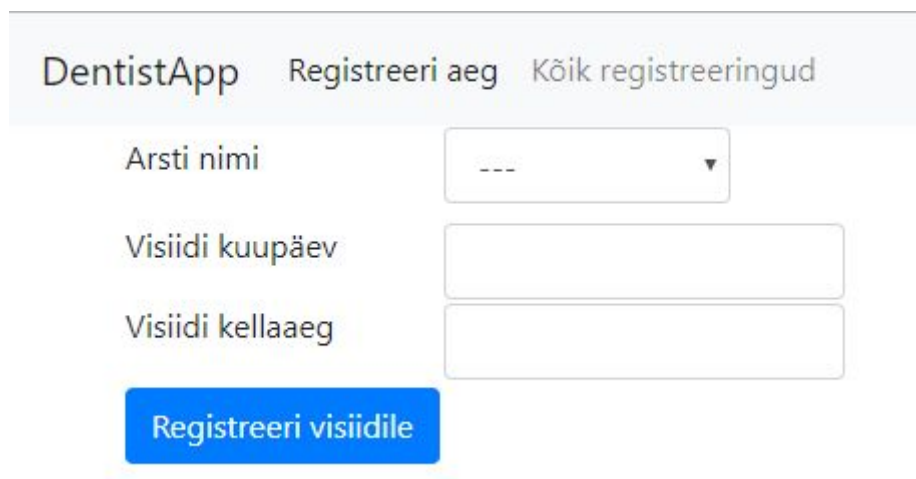The purpose of this document is to give a quick overview on the user interface of the DentistApp.

Views

Currently there are two main views in the application: the registration form view and the registration list view.
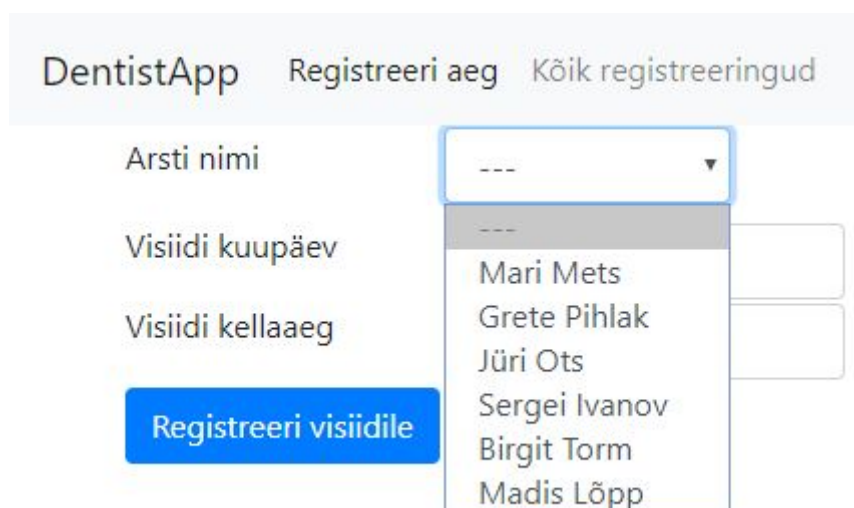
Registration form

This view allows the user to register a dentist visit by filling out 3 fields:
- Dentist
- Date of the visit
- Time of the visit

Dentist field

The dentist can be chosen from a dropdown menu. The dentists are retrieved from the database.

NOTE: For the purposes of this assignment, several dentists are added to the database on a first time run since an in-memory database is used (and everything will be wiped once the application is closed).

Visit date field

The date of the visit is chosen by using the datepicker window that opens. The user can only select future dates up to a year and manual typing is also disabled - with the purposes of allowing the user to make as few mistakes as possible.

Visit time field

The time of the visit is chosen by using the timepicker window that opens. Only the active hours (8:00 - 18:00) are available to choose with 30 minute intervals (considering that each appointment takes some amount of time). Typing is also disabled to allow the user to make as few mistakes as possible.

Constraints

There are several constraints as to what the user can submit.
- NotNull - none of the fields are allowed to be null
- Format - the date and time fields must be formatted respectively dd.MM.yyyy and HH:mm (taken care by the UI)
- Past date - the date must not be in the past (taken care by the UI)
- Past date & time - the date and time combination but not be in the past (past dates are ruled out by the UI but it IS possible to choose an early morning time on the current day while it is already noon)
- Existing visit - the date, time and dentist combination must be unique - 2 people mustn't be able to register on the same exact timeslot for the same dentist
- Far future date - the date must not be more than 1 year into the future (taken care by the UI)
- Active hours time - the time must be during the active work hours (between 8:00 and 18:00, taken care by the UI)

If the user submits the form while any of the conditions fail, error messages are displayed to the user describing what failed. Some of the constraints are already ruled out by the design of the UI (for example, submitting a past date raises an error eventhough it is not possible to choose a past date in the first place) - but these constraints still exist in case the UI should change.

Registration list

This view displays the list of all the registrations in a table.

Sorting

The table can be sorted by any of the 3 columns: date, time or dentist's name. By default the sorting priority is date and then time - this makes it so the entries are displayed in a chronological order based. The user can sort the columns any way they choose (to sort multiple columns, hold the Shift key).

Filtering

The filter function allows the user to display a subset of the entries. By clicking on the Filter button, filtering options are displayed to the user.

A filter can be applied on all three columns. No button presses are required to apply the filter - once a filter option is selected, it is automatically applied.

Dentist filter

By choosing a dentist from the dropdown, only that dentist's appointments will be displayed in the table.
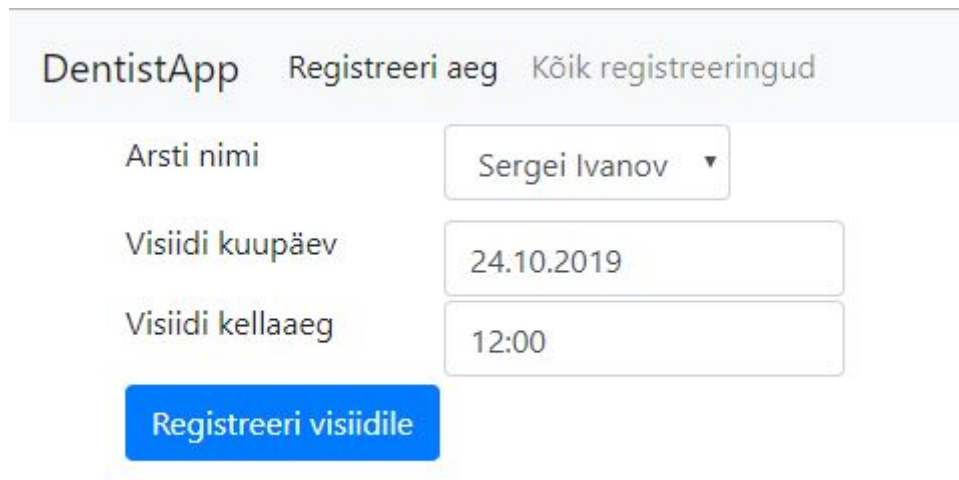
Date filter

Beginning and end dates can be selected by using the datepicker to select a range of dates to display registrations from. Unlike the registration form, there are no constraints here on the dates.

Time filter

Beginning and end times can be selected by using the timepicker to select a range of times to display registrations from. The options are also limited from 8:00 to 18:00 (with no limits, the dropdown felt a bit too crowded with all the unnecessary options like 0:30, 22:00, etc.).

Editing fields

Every registration has an edit button bound to it. Clicking on it takes the user to the registration form view with pre-filled fields.

The process from this point is identical to registering a visit on the form field - same constraints apply and choosing the fields works the same aswell. Clicking on the register button updates the entry if the fields satisfy the conditions.

Deleting fields

Every registration has a delete button bound to it. Clicking on it removes that entry from the database.