Building MVC-based Apps using JavaFX Binding

Exercise 1 – BMI Calculator App

Create a BMI (Body Mass Index) Calculator App that allows users to enter their weight and height and whether they are entering these values in English or Metric units, then calculates and displays the user's body mass index. The formulas for calculating the BMI:

$$BMI = \frac{weightInPounds \times 703}{heightInInches \times heightInInches}$$

or

$$BMI = \frac{weightInKilograms}{heightInMeters \times heightInMeters}$$

The app should also display the necessary information from the National Institutes of Health so that users can evaluate their BMIs as shown in the UI design below:
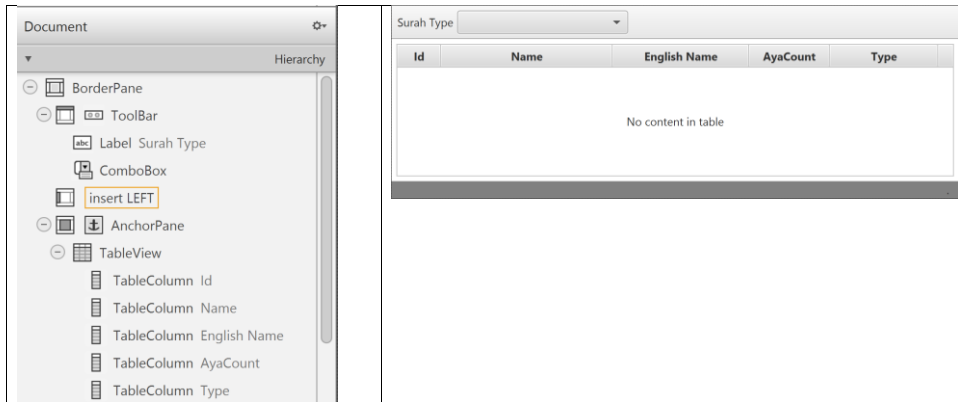

Exercise 2 – Surah App

Commented [AE1]: Make the solution in the initial folder available to students.

Create **Surah App** that allows the user to get the Surahs by type. The app UI is shown below.

Components Tree	UI Design

- When the view is loaded fill the surahTypeCombo with the types returned by `SurahRepository.getSurahTypes();`
- When the user selects different surah type then refresh the surah table with the surah returned by `SurahRepository.getSurahs(selectedType);`
- Test as you make progress. The complete UI should look as shown below: