

Consider the following javafx scene

The image shows a JavaFX scene titled "Items". On the left, there is a table with four columns: "Product Name", "Product ID", "Material", and "Quantity". The table is currently empty, displaying the text "No content in table". On the right, there is a form with the following fields: "Product Name" (text input), "Product ID" (text input), "Material" (ComboBox), "Quantity" (ComboBox), and "Delivery Date" (date picker). Below these fields is an "Add Product" button.

Tasks:

1. Create a FXML project in NetBeans IDE
2. Design the scene using SceneBuilder
 - a. Material ComboBox should have the following options: "Wood", "Metal", "Board", "Cloth", "Other"
 - b. Quantity ComboBox should have the following options: 1, 2, 3, 4, 5
3. Write a model class for "Product" with appropriate fields to contain the user input.
4. Write a handler method for onAction event of the "Add Product" Button
 - a. This Should Create a new "Item" object according to the user's input and add them to an ArrayList
 - b. The TableView on the left should display the fields of the items in appropriate columns
5. Add the following verification:
 - a. No input fields should be empty
 - b. Product ID cannot be duplicate
 - c. Delivery Date cannot be in the past
 - d. Appropriate error message should be shown on a Label.