## **Dynamic Form Generation**

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# Requirements

- DatabaseController
- Existing Database
- Scalable layout
- Metadata

## Panel Setup

- Spring Layout, FlowLayout
- Matching Label and Field to DB
- Spacing!!
- Problems with TOO MUCH on a page
- Organize by type/topic
- Vertical or Horizontal?
- Single or Multiple entries?

## Metadata

- The data behind the data
- What are we storing inside the DB and table?
- Methods
- Standard Java datatypes
  - Use instanceof again

## Single Entry Approach

- JTextField and JLabel
- Arrange input fields with labels above/below or to the left.

## **DynamicProjectNameJPanel**

- setupDynamicPanel()
  - Iterate over metadata
  - Identify needed components
    - getColumnType(column#)
    - getColumnName(column#)

#### **DynamicPanel cont**

- Based on the type instantiate components with spacing
  - JTextField, JTextArea, JComboBox
    - Check for proper values if needed
  - JLabel
    - Identify which value is associated with this field

## Multiple Entry Approach

- JTable
  - Editable and non-editable fields
  - Alternate color/hue between rows
    - TableCellRenderer add test in constructor for row/column parameter and call this.setBackground(someColor) with a row % 2 == 0 if/else test
  - Must write changeListener to submit to databaseController