

View

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graph TD; subgraph Controller; EH[EventHandler]; CL[ChangeListener]; end; View[View]; Model[Model]; EH -.->|Registers to elements| View; View -->|Passes changes to the GUI| CL; CL -.->|Registers to the data model| Model; Model -->|Passes changes to the data model| EH;
```

The diagram illustrates the MVC (Model-View-Controller) pattern. It consists of three main components: View, Controller, and Model. The View is represented by a light blue box at the top. The Controller is a large light red box in the middle, containing two sub-components: EventHandler and ChangeListener, each in a light orange box. The Model is a light green box at the bottom. The interactions are as follows: 1. EventHandler registers to elements in the View (dashed arrow pointing up). 2. The View passes changes to the GUI to the ChangeListener (solid arrow pointing down). 3. The ChangeListener registers to the data model in the Model (dashed arrow pointing down). 4. The Model passes changes to the data model back to the EventHandler (solid arrow pointing up).

Controller

Registers to elements

EventHandler

Passes changes to the data model

Passes changes to the GUI

ChangeListener

Registers to the data model

Model