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TRAINING

Day 2
Technical Training

Odoo JavaScript Framework

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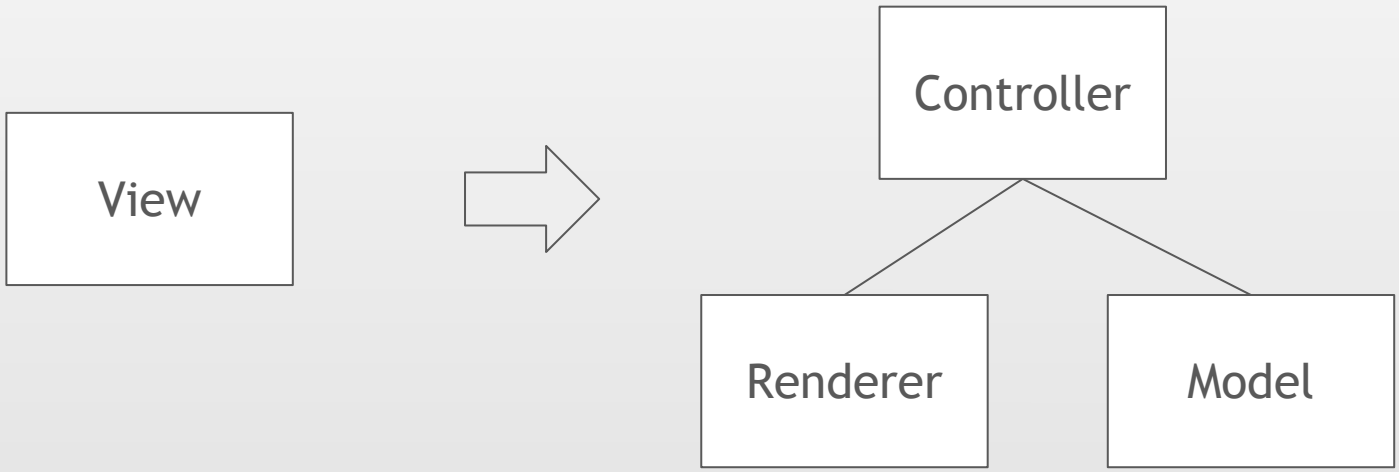
RD Framework Team

Welcome back!

Topic of the day:

working with JS views

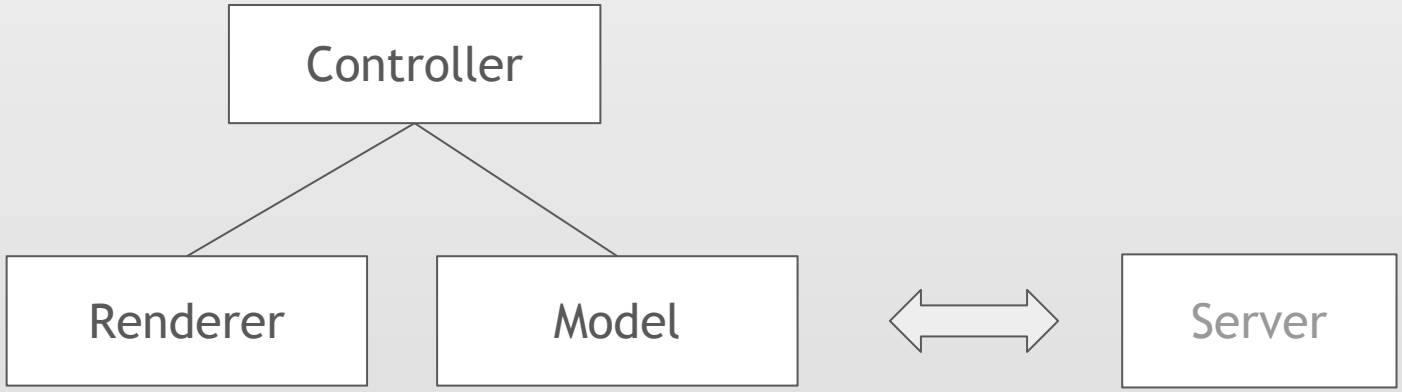
Views Architecture: MVC



https://www.odoo.com/documentation/12.0/reference/javascript_reference.html#views

Views Architecture: main classes and roles

- *AbstractView*: factory, set up the MVC, parse the arch, configure renderer, controller, model
- *AbstractController*: coordinate the renderer/model, coordinate with the rest of the web client (and the search view, indirectly), take care of the control panel
- *AbstractRenderer*: rendering
- *AbstractModel*: load and process data, talk to the server



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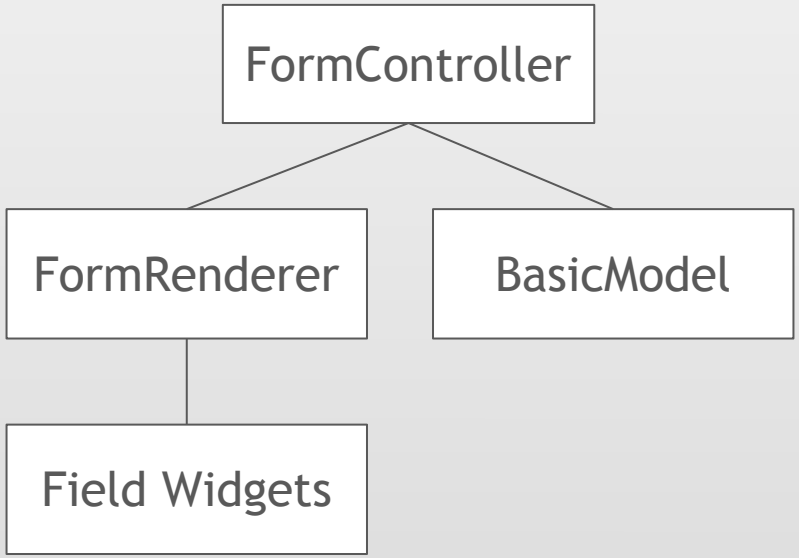
Basic Views

BasicView: Form, List, Kanban

Common base: BasicModel, BasicRenderer, BasicView, BasicController

Support for field widgets, for modifiers (readonly/invisible/…), ...



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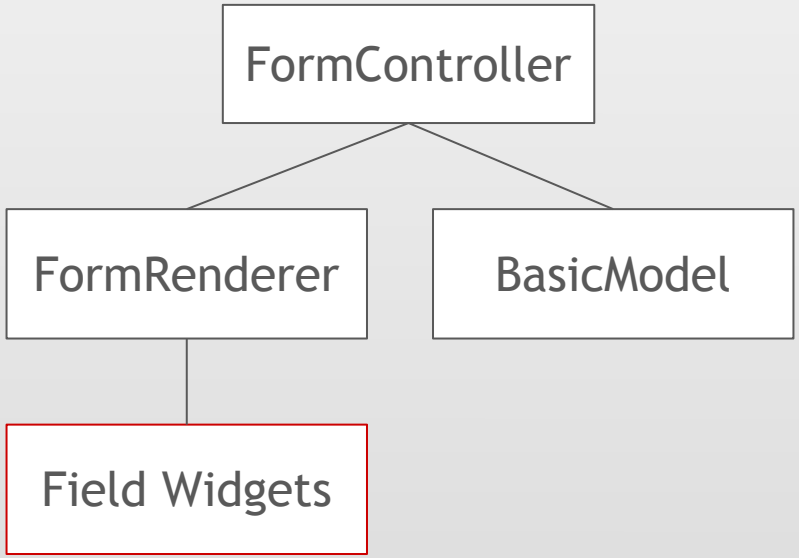
AbstractField

- 2 modes: readonly, edit
- does not switch between mode (is destroyed and recreated)
- represent a value, but is not the owner of the state
- works in all basic views (form/list/kanban)



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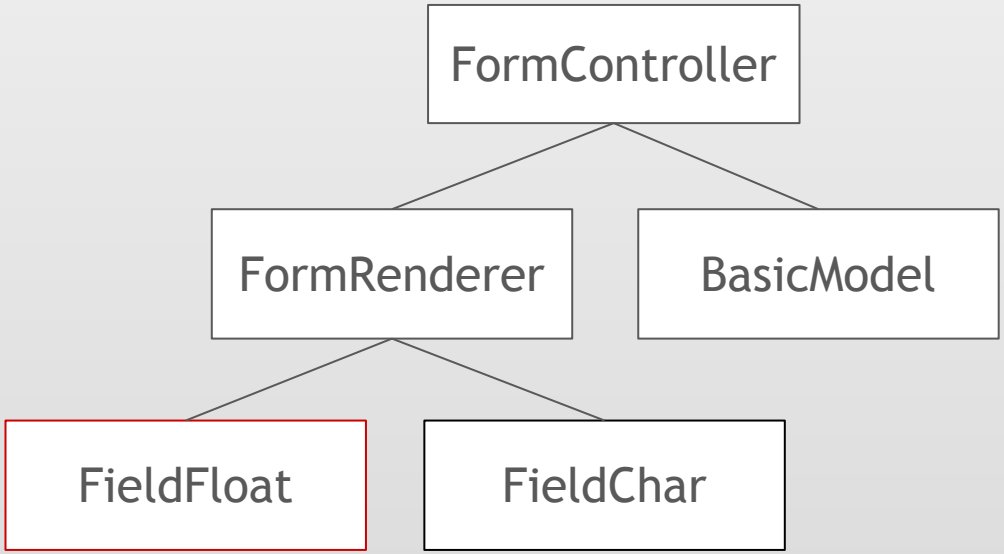
AbstractField:
what happens when a value change

1. the user changes a value (for ex, in a float field, form view, edit mode)



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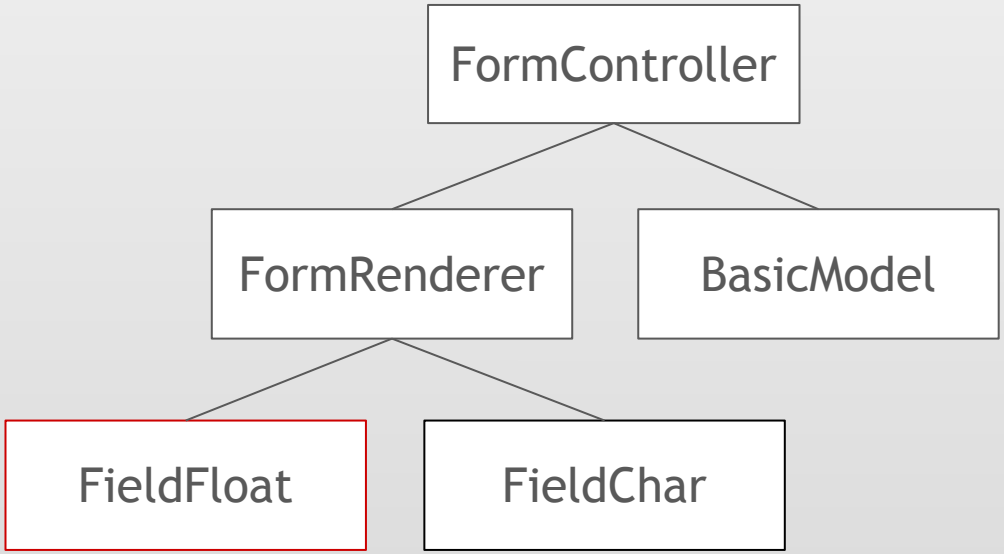

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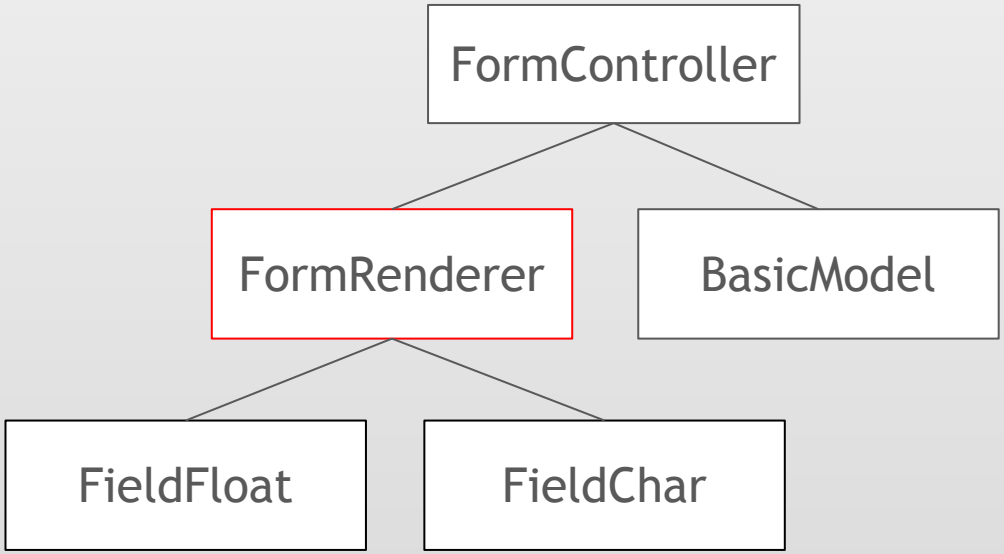
1. the user changes a value (for ex, in a float field, form view, edit mode)
2. the widget call the _setValue method, it triggers up an event
3. the event bubble up to renderer, nothing happens



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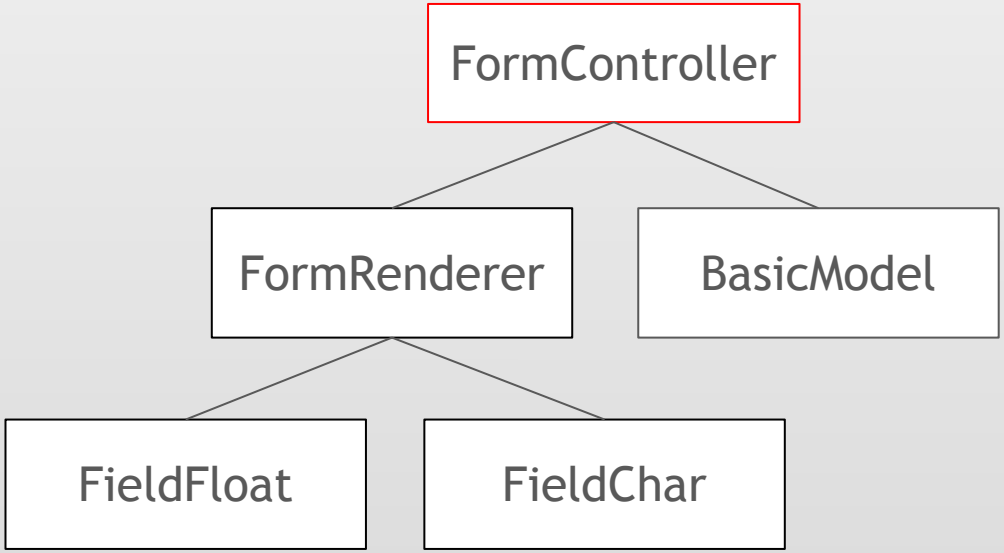
4. it arrives in controller



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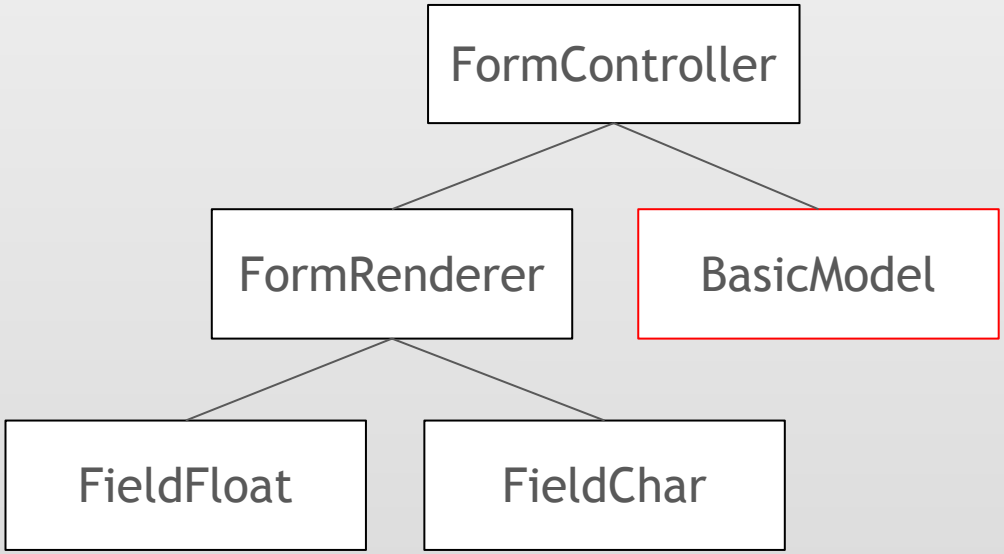
5. controller notifies model



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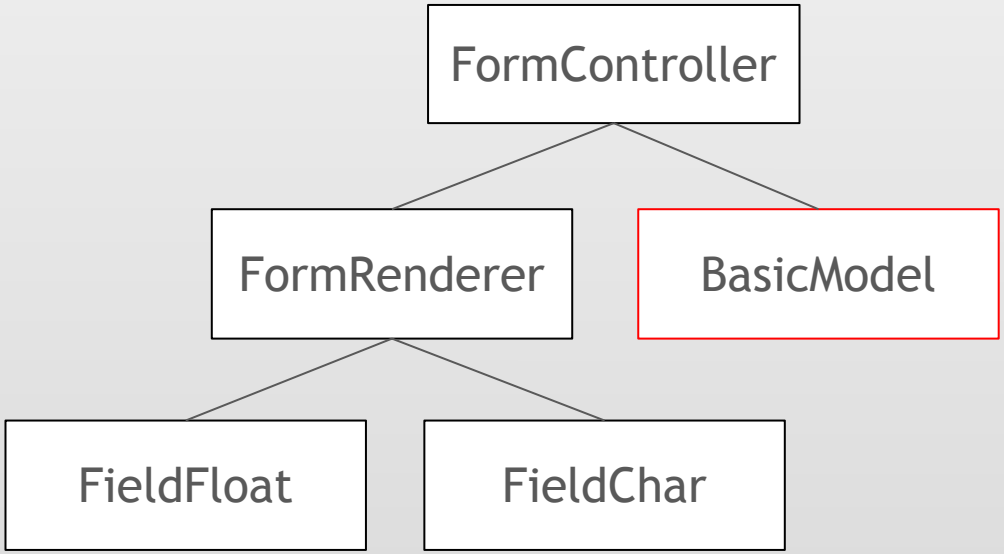
6. model apply change, apply onchanges if necessary (async: talk to server)



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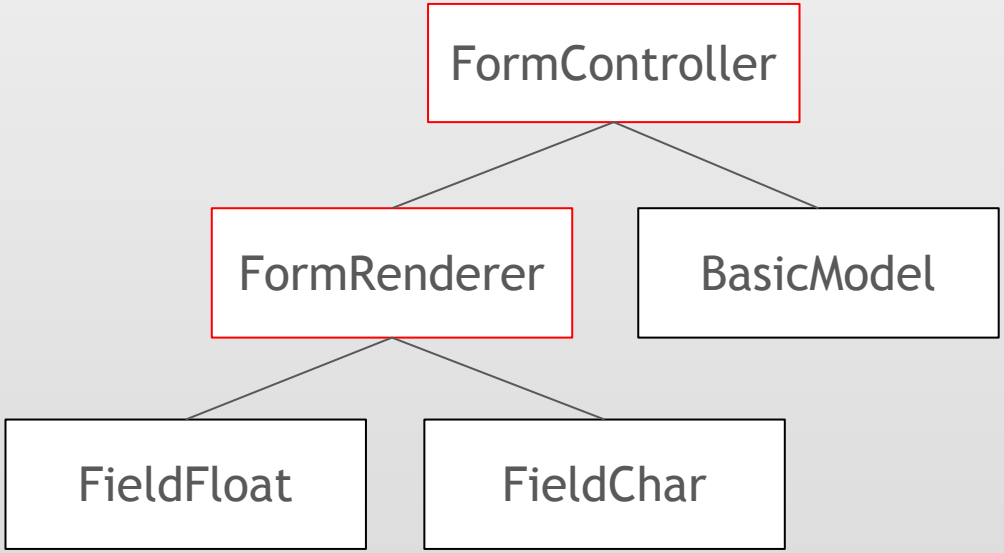
7. the controller get new values and update renderer



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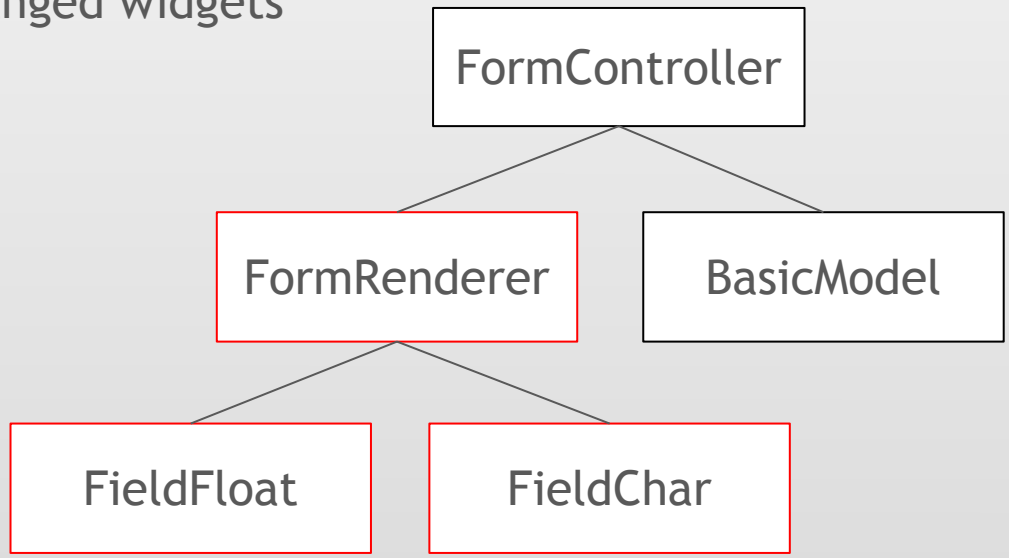
7. the controller get new values and update renderer
8. renderer update all changed widgets



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Let’s get to work.