

# Working with Data

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# To-Do List



**Managing and Displaying Data in Web Forms**

**Working with Data in MVC**

**Demo: Finishing the Home Page Widgets**

**Demo: Building the Listing Pages**

**Demo: Building the Conversation Page**

**Demo: View Models and Model Binding**

**Demo: Dependency Injection and Next Steps**



# Looking Ahead

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# Working with Data in MVC

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# Data Workflows in MVC and Web Forms

## Data in Web Forms

Server Controls with  
Various Levels of  
Abstractions

## Data in MVC

Manual Process Using  
Models and Razor



```
public ActionResult ViewAll()
{
    var context = new FeedbackContext();
    var tasks = context.Tasks.OrderByDescending(x => x.Created).ToList();
    return View(tasks);
}
```

## Displaying Data through Models

**Models should provide all of the necessary data for display in a View**



```
<div class="form-group">
    @foreach (var message in Model)
    {
        <tr>
            <td> @message.Author</td>
            <td> @message.Content</td>
        </tr>
    }
    @Html.DisplayFor(x => x.Subject)
</div>
```

## Accessing Data Through Razor

Razor Helpers and syntax provide useful workflows for displaying data



# Multiple Sets of Data in Views

List<Message>



## Welcome to the Feedback Application!

Here you can manage the messages and tasks for our customers.

### Latest Messages

From	Subject	Sent	Action
mark@sample.com	Concerned Customer	1/17/2016 11:01:39 AM	<a href="#">View</a>
joe@sample.com	Question about shipping	1/17/2016 11:01:39 AM	<a href="#">View</a>
sam@sample.com	Mobile app troubles	1/17/2016 11:01:39 AM	<a href="#">View</a>
alex@sample.com	Poor service	1/17/2016 11:01:39 AM	<a href="#">View</a>
john@sample.com	Like the new site!	1/17/2016 11:01:39 AM	<a href="#">View</a>

[See all](#)

List<Task>



### Admin Tasks

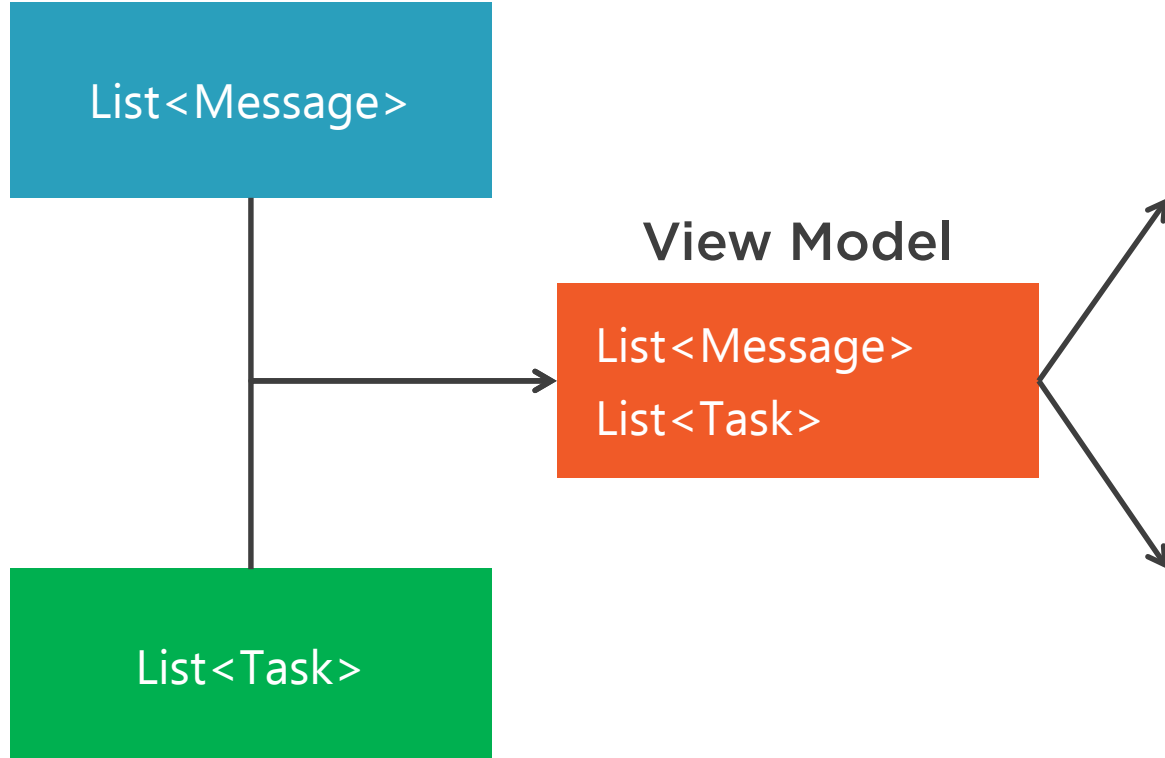
Title	Description	Due Date	Action
Follow up with marketing about materials	A vendor has not received shipments for an order they placed through the online form.	1/24/2016 11:01:39 AM	<a href="#">View</a>
Vendor issues	A vendor has not received their order, please address this and check that the order was placed.	1/24/2016 11:01:39 AM	<a href="#">View</a>
Poor customer relations	Multiple customer complaints have come through about our phone service - please contact customer relations to verify that procedures are being followed.	1/24/2016 11:01:39 AM	<a href="#">View</a>

[See all](#)





# Introducing View Models



## Welcome to the Feedback Application!

Here you can manage the messages and tasks for our customers.

Latest Messages			
From	Subject	Sent	Action
mark@sample.com	Concerned Customer	1/17/2016 11:01:39 AM	<a href="#">View</a>
joe@sample.com	Question about shipping	1/17/2016 11:01:39 AM	<a href="#">View</a>
sam@sample.com	Mobile app troubles	1/17/2016 11:01:39 AM	<a href="#">View</a>
alex@sample.com	Poor service	1/17/2016 11:01:39 AM	<a href="#">View</a>
john@sample.com	Like the new site!	1/17/2016 11:01:39 AM	<a href="#">View</a>
			<a href="#">See all</a>

Admin Tasks			
Title	Description	Due Date	Action
Follow up with marketing about materials	A vendor has not received shipments for an order they placed through the online form.	1/24/2016 11:01:39 AM	<a href="#">View</a>
Vendor issues	A vendor has not received their order, please address this and check that the order was placed.	1/24/2016 11:01:39 AM	<a href="#">View</a>
Poor customer relations	Multiple customer complaints have come through about our phone service - please contact customer relations to verify that procedures are being followed.	1/24/2016 11:01:39 AM	<a href="#">View</a>
			<a href="#">See all</a>



# Displaying and Managing Data in MVC

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# Moving Forward

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# Other Considerations

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# Summary



**Web Forms Offers Data Controls with Various Levels of Abstractions**

**MVC Uses Techniques Built Around Models and Razor for Managing Data**

**View Models Can Provide Benefits for Both Displaying and Binding Data**

**Dependency Injection Can Improve the Implementation of Data Driven Classes**



Thank You, and Best of Luck!

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