# **Device-specific Use-cases**

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## **Key Points**

**Device-specific** views in ASP.NET

Device-specific use-cases

**Refactoring** of the ASP.NET solution

### **Device-specific: What Does It Mean, Exactly?**



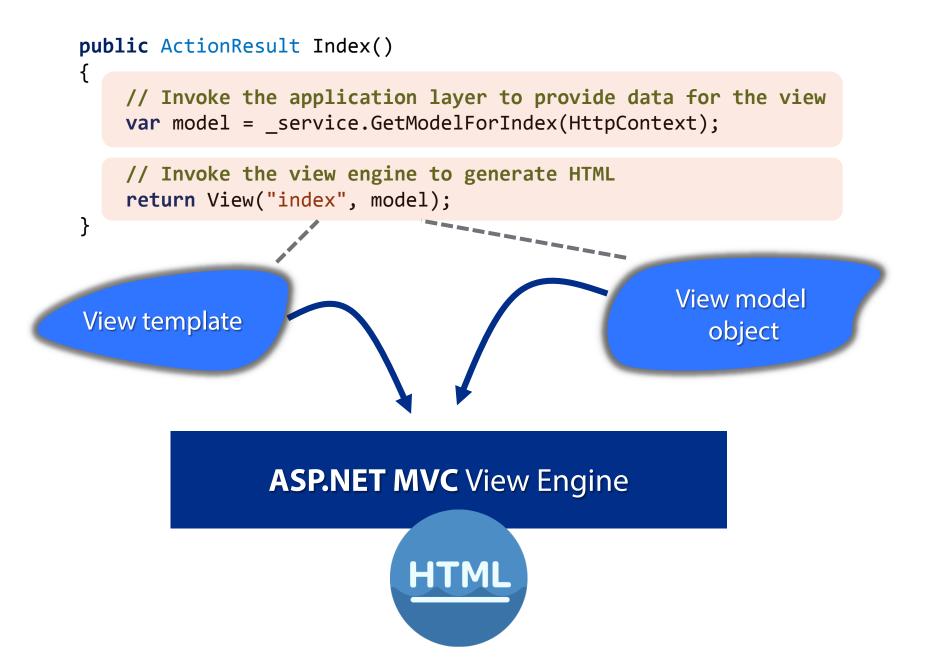
## **Device-specific is About...**

# **Content**

- Ad hoc markup
- Ad hoc style sheets
- Ad hoc JavaScript

## **Functions**

- Action buttons
- Links and panels
- Navigation



## **Going One Step Further...**

- Display modes automatically adapt template to devices
  - Matching rule to discover the device profile
  - Suffix to identify the view template to use
- Far-fetched scenario?
  - Application layer implements use-cases of the application
  - Devices to (ideally) have their own use-cases
- How to automatically adapt view model objects?

## **Options**

- Per-device controllers
  - Some of the application logic coded within controllers
- One set of controllers and per-device application layers

- One comprehensive
  - Set of controllers (all possible endpoints)
  - Set of application services (all possible methods)
  - Set of view model objects (all possible data)

#### **DEMO About ASP.NET MVC and WURFL**



**Controllers** 

**Application services** 

**Device-specific views** 

## **Summary**

- One web site to take care of all devices is possible
  - DDRs are the key to success
  - WURFL is one of them
- ASP.NET MVC display modes simplify view routing
  - Can pass the same view model to any view
  - Ignore what's not being used in the view
- If too heavyweight, add one more layer of routing
  - From view up to application services
  - From application services up to controllers
  - From controllers up to controller factories (via IoC)