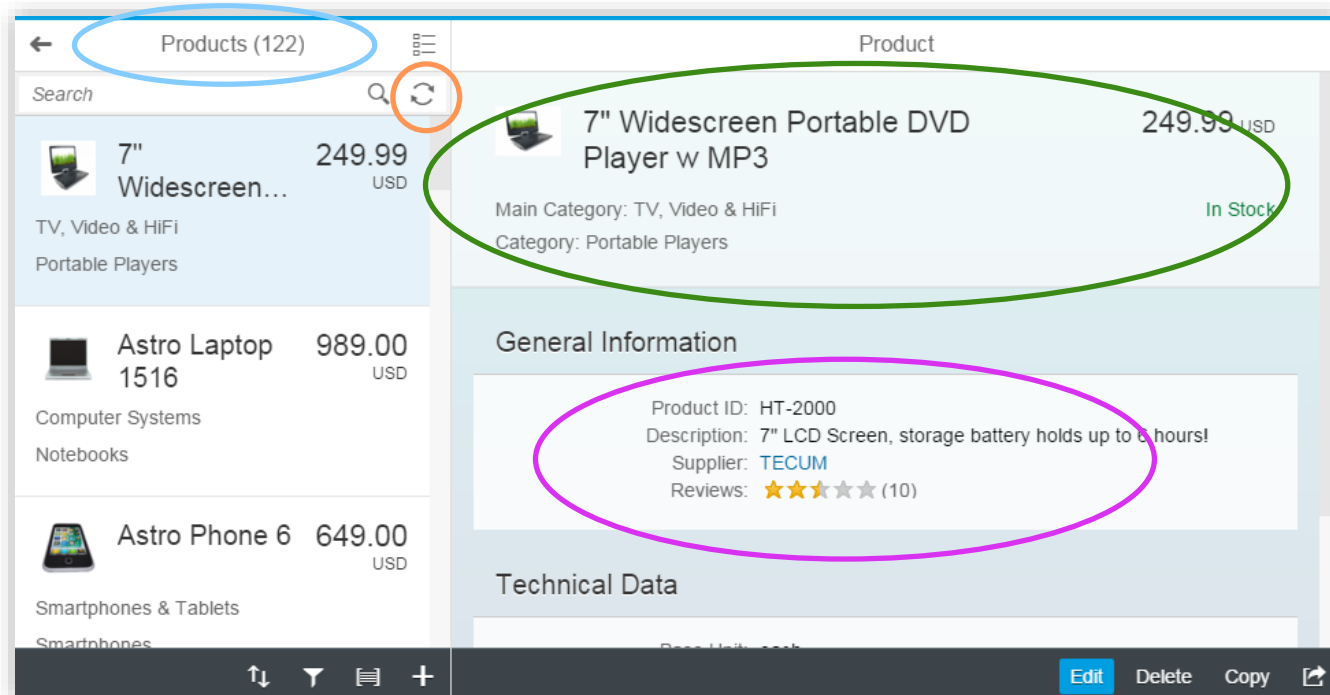


# Week 3 Unit 4: Adapting to the User's Device

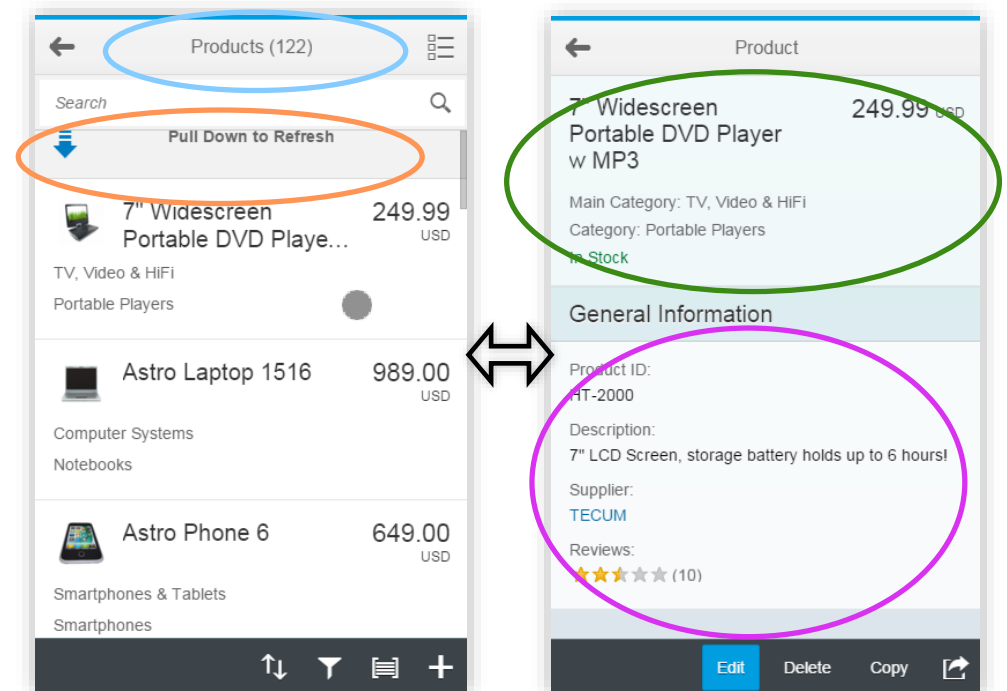
# Adapting to the User's Device

## Responsive Controls

### Desktop Browser



### Phone



Examples: `sap.m.SplitApp`, `sap.m.PullToRefresh`, `sap.m.ObjectHeader`, `sap.ui.layout.Form`, `sap.m.Bar`

# Adapting to the User's Device

## Device API

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### **sap.ui.Device**

- **browser:** mobile, name, version, versionStr, webkit, webkitVersion
- **media:** rangesets..., matches
- **orientation:** portrait, landscape
- **os:** name, version, versionStr, OS
- **resize:** height, width
- **support:** touch, retina, websocket, pointer, orientation, matchmedia, input.placeholder
- **system:** phone, tablet, desktop, combi

[API Reference → sap.ui.Device](#)

[Developer Guide → Essentials → The Device API](#)

[Developer Guide → Developing Apps → Device Adaptation: Using Device Models for Your App](#)

# Adapting to the User's Device

## Content Densities

### Cozy

Customers		Bought Products		
<div>Suchen</div>				
<div>Jones Maria</div> <div>Maier Petra</div> <div>Mueller Peter</div> <div>Smith Thomas</div> <div>Williams John</div>		<div></div>	Product Name	Quantity
			Vegie-spread	20
			Aniseed Syrup	6
			Lakkalikööri	15
			Raclette Courd...	15
			Rössle Sauerkr...	2
			Flotemysost	20
			Grandma's Bo...	16
<div>Filter</div>				

### Compact

Customers		Bought Products		
<div>Suchen</div>				
<div>Jones Maria</div> <div>Maier Petra</div> <div>Mueller Peter</div> <div>Smith Thomas</div> <div>Williams John</div>		<div></div>	Product Name	Quantity
			Vegie-spread	20
			Aniseed Syrup	6
			Lakkalikööri	15
			Raclette Courd...	15
			Rössle Sauerkr...	2
			Flotemysost	20
			Grandma's Boy...	16
			Escargots de B...	40
			Original Frankf...	2
			Rössle Sauerkr...	15
			Chartreuse verte	21
			Snegesild	2
<div>Filter</div>				

The `sap.ui.table.Table` control also supports an even smaller "Condensed" mode

[Developer Guide](#) → [Essentials](#) → [Adapting to Operating Systems And Devices](#) → [Content Densities](#)

# Adapting to the User's Device

## Summary

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### **Means of visually adapting to the user's device:**

- Many controls that adapt automatically
- Other controls that can be configured to adapt in a certain way
- Predefined responsiveness styles like the margin and visibility CSS classes
- Content Densities “compact” and “cozy”
- The sap.ui.Device API as source of information about the current device, to
  - ...allow for any kind of resulting adaptation
  - ...be informed about changes
  - ...use as device model, so data binding can be used to adapt

**Adaptation is not limited to visuals – think about device capabilities!**



# Thank you

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