

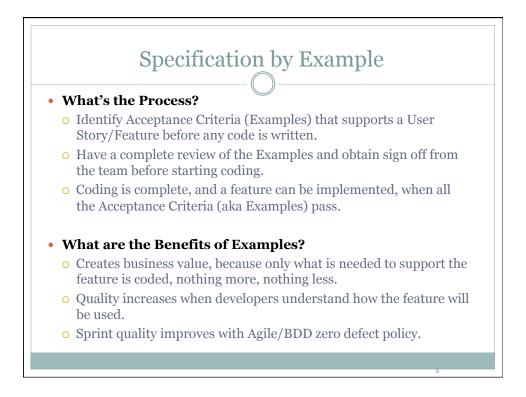
Behavior Driven Development

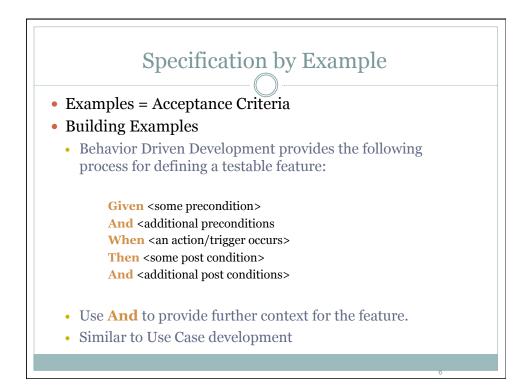
What are the goals of BDD?

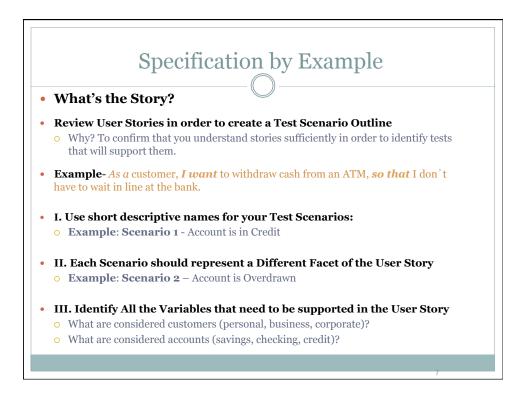
- Drive application development based upon Business Value.
- Write tests before you write code.
- Work in small increments of work.
- Provide the development team an ability to refactor code quickly.
- Designed to illustrate the behavior of a feature.

What are the Benefits?

- Reduce the time for code implementation.
- Specifying via example will lead to more modularized, flexible, and extensible code.
- Encourages close teamwork between the entire Project Team.





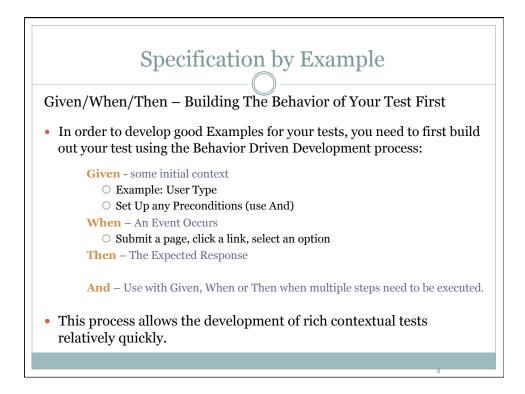




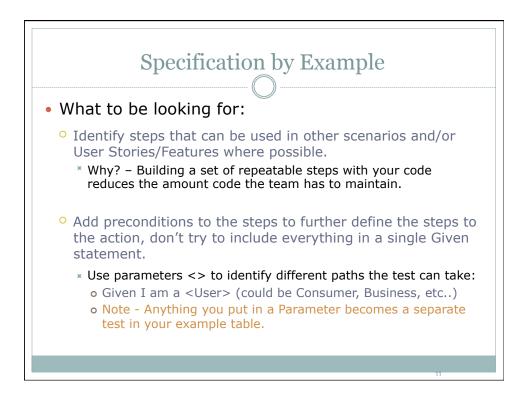
• Encourages conversations

domain.

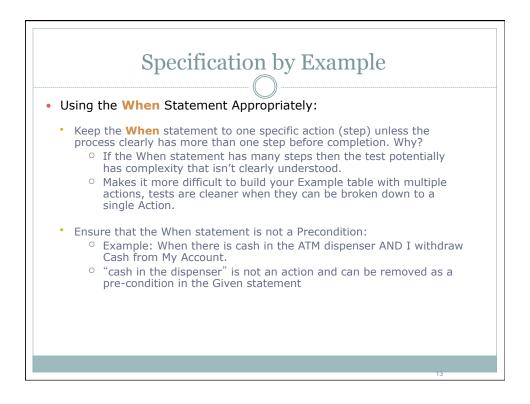
- Assists with Leveling the Story/Feature (Is it too big, too small, inclusive)
- Identifying potential New Stories/Features, because of project deliverable timelines.
 - × Not supporting Business Accounts in the 1st Release.
 - × Not supporting Savings Accounts in the 1st Release.



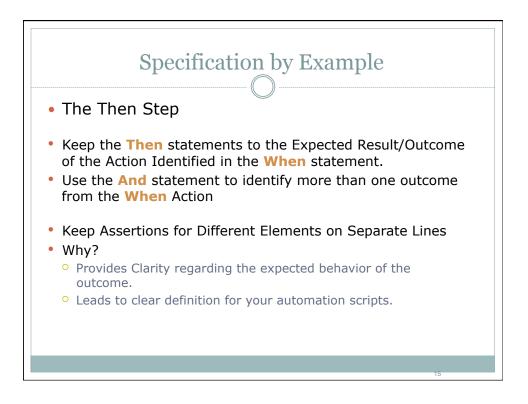
Building the Test – Given and Preconditions			
Feature/Story:	As a customer, I want to withdraw cash from an ATM, so that I don't have to wait in line at the bank.		
Scenario 1	Account is in Credit		
Given Statement	Given I' m a customer with a valid account And My Account is in Credit		
Scenario 2	Account is Overdrawn		
Given Statement	Given I'm a customer with a valid account And My Account is Overdrawn		

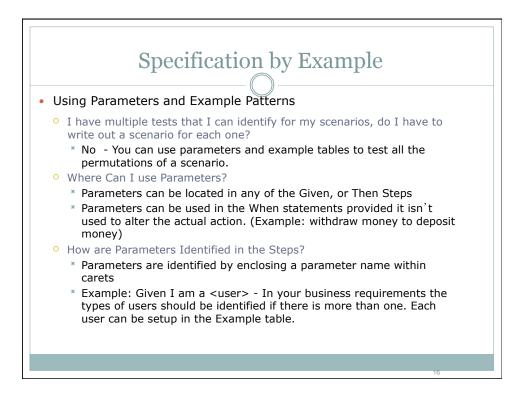


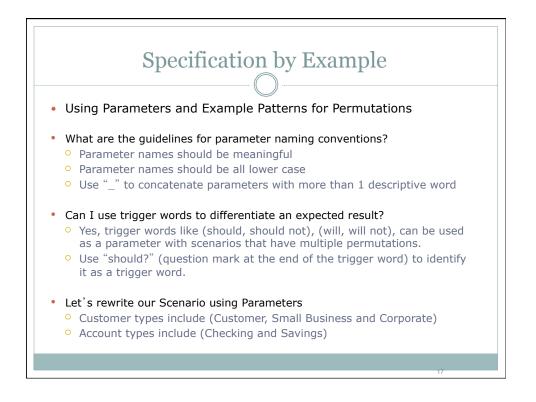
Building the Test – The Action - When			
User Story:	As a customer, I want to withdraw cash from an ATM, so that I don't have to wait in line at the bank.		
Scenario 1	Account is in Credit		
Given Statement	Given I'm a customer with a valid account And My Account is in Credit		
When Statement	When I withdraw money from my account		
Scenario 2	Account is Overdrawn		
Given Statement	Given I'm a customer with a valid account And My Account is Overdrawn		
When Statement	When I withdraw money from my account		



Specification by Example Building the Test – What's the Outcome?		
User Story:	As a customer, I want to withdraw cash from an ATM, so that I don't have to wait in line at the bank.	
Scenario 1	Account is in Credit	
Given Statement	Given I' m a customer with a valid account And My Account is in Credit	
When Statement	When I withdraw money from my account	
Then Statement	Then my account should be debited And requested amount should be dispensed	
Scenario 2	Account is Overdrawn	
Given Statement	Given I' m a customer with a valid account And My Account is Overdrawn	
	When I withdraw money from my account	







Specification	by Example
	<u>)</u>

• Using Parameters and Example Patterns for Permutations

User Story:	As a customer, <i>I want</i> to withdraw cash from an ATM, so that I don't have to wait in line at the bank.
Before	After
Given I' m a customer with a valid checking account And My checking account is in Credit When I withdraw money from my checking account Then my checking account should be debited And the requested amount should be dispensed	Given I' m a <user_type> And I have a valid <account_type> And my <account_type> is in credit When I withdraw money from my <account_type> Then my <account_type> account should be debited And the requested amount should be dispensed</account_type></account_type></account_type></account_type></user_type>

