

Use Case Name: Search and browse tunes		ID: UC -1	Priority: High
Actor: Tune Shopper			
Description: This use case describes a tune shopper who searches and browses through tunes			
Trigger: Tune shopper arrives at Web site to search and browse through tunes			
Type: <input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal			
Preconditions: Web site is available Tune database is on-line			
Normal Course:		Information for Steps:	
<p>1.0 Search and browse tunes and select tune to purchase</p> <ol style="list-style-type: none"> System displays default home page or customized page Tune Shopper browses links on page or enters account username and password Tune Shopper want to create an account: perform Create Account use case Tune Shopper enters search request System displays tune(s) matching search request Tune Shopper selects a tune and wants to hear a sample Tune Shopper selects a tune to add to Favorites Tune Shopper selects a tune to remove from Favorites Tune Shopper selects a tune to buy by placing it in shopping cart Tune Shopper selects a tune to remove from shopping cart 		<p>← Username/password</p> <p>← Search criteria</p> <p>← Tunes matching search</p> <p>← Tune samples</p> <p>→ New Interest</p> <p>→ New Favorites</p> <p>→ Modified Favorites</p> <p>→ New Shopping Cart Entry</p> <p>→ Modified Shopping Cart</p>	
Alternative courses:			
<p>1.1 Tune Shopper is a return visitor (branch at step 1)</p> <ol style="list-style-type: none"> System displays page customized for the return visitor using Interests from prior visits <p>1.2 Tune Shopper has created an account (branch at step 2)</p> <ol style="list-style-type: none"> System displays welcome message to account holder Page is customized for the account holder using Favorites List and Targeted Promotions 		<p>← Interests database</p> <p>← Favorites database</p> <p>← Targeted Promotions database</p>	
Postconditions:			
<ol style="list-style-type: none"> One or more tunes are added to shopper Interests Account holder favorites list may be modified Shopping cart contents may be modified 			
Exceptions:			
<p>E1: Account is not valid (occurs at step 2)</p> <ol style="list-style-type: none"> System displays message that username/password is not valid. System asks Tune Shopper to re-enter username/password or contact customer service for help. <p>E2: Search request returns no results (occurs at step 3)</p> <ol style="list-style-type: none"> System displays message that no results were found for that search System asks Tune Shopper to try another search 			
Summary			
Inputs	Source	Outputs	Destination
Username/password	Tune Shopper	New Interest	Interests database
Search criteria	Tune Shopper	New Favorites	Favorites database
Tunes matching search	Tunes database	Modified Favorites	Favorites database
Tune samples	Tune Samples database	New Shopping Cart Entry	Shopping Cart database
		Modified Shopping Cart	Shopping Cart database

FIGURE 4-14 Tune Source Use Cases

Use Case Name: Purchase Tune		ID: UC -2	Priority: High
Actor: Tune Buyer			
Description: This use case describes the Tune Buyer's purchase and download of selected tune(s)			
Trigger: Tune Shopper has placed one or more tunes in shopping cart and is ready to check-out			
Type: <input checked="" type="checkbox"/> External <input type="checkbox"/> Temporal			
Preconditions: 1. One or more tunes are in shopping cart 2. Tune Buyer has specified readiness to check out and buy tune(s) in cart			
Normal Course: 1.0 Tune Buyer confirms intent to buy, supplies payment, and downloads tunes 1. System displays shopping cart contents with prices of tunes included. 2. Tune Buyer specifies intention to purchase tunes in cart 3. System collects payment information or account information 4. System obtains payment authorization 5. Tune Buyer confirms payment transaction 6. System processes payment 7. System confirms payment acceptance 8. System releases tunes in cart for download 9. Tune Buyer selects download process for each tune; as each tune is successfully downloaded the system removes it from cart.		Information for Steps: Shopping cart contents Purchase authorization Payment information Payment authorization Payment confirmation Tune Sales details Payment acceptance	
Alternative courses: 1.1 Tune buyer has established account (branch at step 3) 1. Tune buyer specifies username and password 2. System retrieves account information including stored payment information 3. System verifies the buyer's intention to use stored payment information or modify stored payment information 4. Return to Normal Course step 4.		Username/password Account database Account modification	
Postconditions: 1. Shopping cart is empty 2. Tune purchase is recorded 3. Tune sales transaction is recorded			
Exceptions: E1: Payment is not authorized (occurs at step 4) 1. System displays message that payment is not accepted. 2. System asks Tune buyer to enter new payment information or exit 3. System terminates use case if tune buyers specifies exit; otherwise return to Normal Course step 4 E2: Tune buyer cancels payment (occurs at step 5) 1. Tune buyer cancels payment transaction 2. System terminates use case			
Summary			
Inputs	Source	Outputs	Destination
Shopping cart contents Purchase authorization Payment Information Payment authorization Payment confirmation	Shopping cart database Tune Buyer Tune Buyer Payment Clearinghouse Tune Buyer	Tune Sale details Account modification	Tune Sales database Account database

FIGURE 4-14 (continued)

Use Case Name: Promote Tunes		ID: UC -3	Priority: High
Actor: Marketing Department Staff			
Description: This use case describes how marketing staff periodically creates new targeted promotions			
Trigger: Time for marketing department to replace current promotions/specials with new promotions/specials			
Type: <input type="checkbox"/> External <input checked="" type="checkbox"/> Temporal			
Preconditions: <ol style="list-style-type: none"> Marketing staff person is authenticated Promotions database is available and on-line Favorites database is available and on-line Sales database is available and on-line 			
Normal Course: <ol style="list-style-type: none"> 1.0 Prepare promotion or special offer based on analysis of customer activity <ol style="list-style-type: none"> Marketing staff specifies time period for analyses System performs customer activity analysis and sales analysis System accepts promotional details Targeted promotions are created Email messages for sales and promotions are created and sent 		Information for Steps: <ul style="list-style-type: none"> ← Time interval for analyses ← Favorites activity ← Sales activity ← New promotion information → New promotions → Email messages 	
Postconditions: <ol style="list-style-type: none"> New Promotions are created Email messages are sent to customers 			
Summary			
Inputs	Source	Outputs	Destination
Time interval for analyses Favorites activity Sales activity New promotion information	Marketing staff Favorites database Sales database Marketing staff	New promotions Email messages	Promotions database Customers

FIGURE 4-14 (continued)