Aleksas Murauskas 260718389

ECSE 326 Assignment #3

Use Case Specification

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| Use case name | Book a hotel room on hotwire.com |
| Brief Description | The intention of the Buyer is to book a specific hotel room. |
| Precondition | The Buyer has not created an account with Hotwire.com and has not yet booked a room for the desired trip. |
| Primary Actor | Buyer |
| Secondary Actors | None |
| Dependency | INCLUDE USE CASE Hotwire System: Search Hotels, INCLUDE USE CASE Hotwire System: Sort Hotels, INCLUDE USE CASE: Hotwire System: : Display Hotel Info, INCLUDE USE CASE: Create Booking, INCLUDE USE CASE : Notify Hotel |
| Generalization | none |

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| Basic Flow: BF | Steps |
| bf | 1. Buyer goes to Hotwire.com home page |
|  | 1. Buyer inputs desired variables, Destination, Check-in/Check out Date, Guest number |
|  | 1. Buyer initiates search process |
|  | 1. INCLUDE USE CASE Hotwire System: :Search Hotels |
|  | 1. Buyer requests the system to display hotels that match their criteria |
|  | 1. System VALIDATES THAT the Destination is valid |
|  | 1. System VALIDATES THAT Check-in date is valid |
|  | 1. System VALIDATES THAT Check-out date is valid |
|  | 1. System VALIDATES THAT Guest number is valid |
|  | 1. System Presents a view of matching hotels |
|  | 1. DO |
|  | 1. System VALIDATES THAT Search Filters have not been updated |
|  | 1. UNTIL Buyer clicks on desired Hotel |
|  | 1. INCLUDE USE CASE Hotwire System: : Display Hotel Info |
|  | 1. Buyer initiates Book hotel process |
|  | 1. INCLUDE USE CASE Hotwire System: : Create Booking |
|  | 1. System VALIDATES THAT First name is valid |
|  | 1. System VALIDATES THAT Last name is valid |
|  | 1. System VALIDATES THAT Phone Number is valid |
|  | 1. System VALIDATES THAT Email is valid |
|  | 1. System VALIDATES THAT Credit First Name is valid |
|  | 1. System VALIDATES THAT Credit Last Name is valid |
|  | 1. System VALIDATES THAT Credit Card Number is valid |
|  | 1. System VALIDATES THAT Expiry Month is valid |
|  | 1. System VALIDATES THAT Expiry Year is valid |
|  | 1. System VALIDATES THAT CVV is valid |
|  | 1. System VALIDATES THAT Address 1 is valid |
|  | 1. System VALIDATES THAT Zip code is valid |
|  | 1. System VALIDATES THAT Country is valid |
|  | 1. System VALIDATES THAT City is valid |
|  | 1. System VALIDATES THAT State is valid |
|  | 1. System records Booking for Buyer |
|  | 1. INCLUDE USE CASE Hotwire System: : Notify Hotel |
| Postcondition | The system has recorded the Buyer’s booking and sent it to the hotel. Booking of Hotel room is completed. |

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| Specific Alternate Flow: | RFS bf 19 |
| AF1 | 1. System informs Buyer that the Phone Number field is invalid and must be filled in |
|  | 1. ABORT |
| Postcondition | System does not record a booking for the Buyer |

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| Specific Alternate Flow: | RFS bf 20 |
| AF2 | 1. System informs Buyer that the Email field is invalid and must be filled in |
|  | 1. ABORT |
| Postcondition | System does not record a booking for the Buyer |

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| Bounded Alternate Flow: | RFS bf 1-33 |
| AF3 | 1. System VALIDATES THAT Timeout Timer passed Time limit |
|  | 1. System informs Buyer that their connection has timed out |
|  | 1. ABORT |
| Postcondition | The System has not recorded a booking |

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| Specific Alternate Flow: | RFS bf 12 |
| AF4 | 1. System VALIDATES THAT A Filter field has been changed |
|  | 1. INCLUDE USE CASE Hotwire System: :Sort Hotels |
|  | 1. Update view to display the new list of sorted hotels |
|  | 1. Resume step bf 13 |
| Postcondition | A new list of hotels are displayed fitting the Buyer’s Filter Fields is displayed in the view |

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| Bounded Alternate Flow: | RFS bf 1-33 |
| AF5 | 1. Buyer closes HTML window |
|  | 1. ABORT |
| Postcondition | Buyer has left the site. A booking has not been made. |