California State University Fullerton

CPSC 462



Object Oriented Software Design

Glossary

for the



Tuffy Flights

System

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| --- | --- | --- |
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Revision History:

| Version | Date | Summary of Changes | Author |
| --- | --- | --- | --- |
| 1.0 | 9/14/2020 | * Initial Release | Nathan Marcos  Jared Castaneda  Jawad Swed |
| 2.0 | 11/8/2020 | * Added definitions and words from Domain Model | Jared Castaneda  Jawad Swed |
| 3.0 | 12/7/202 | * Edited user roles | Jared Castaneda |

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# Definitions



| **Term** | **Definition and Information** | **Format** | **Validation**  **Rules** | **Aliases** |
| --- | --- | --- | --- | --- |
| Digital Ticket | A digital Document that works as proof for entering a plane. The document includes: a ticket number (including the airline's 3-digit ticketing code, a 4-digit form number, a 6-digit serial number, and a check digit) usually symbolized with a barcode , flights details (departure and arrival times), baggage allowance, seat number and flight class | 14- digit code of several subparts. Other written seating and flight information | The last digit is a check digit | Universal flight code |
| Gift card | A card that has a unique serial number, usually symbolized with a barcode placed on the card. When a customer purchases a gift card, the barcode is scanned into a point of sale (POS) system. The point of sales system recognizes the gift card's unique serial number and its value. The value of the gift card is not stored on the card but within the point of sale system. The card also has the Tuffy flights logo | 9- digit code. | The 9 digits as unique digits recognized by the (POS) system |  |
| Flight points | Are part of a loyalty program offered by the airline. a customer accumulates a set amount of points based on how much spent on the ticket. Customer can use these points to buy more tickets. |  |  |  |
| Payment  authorization | Validation by an external payment authorization  service that they will make or guarantee the payment to the seller |  |  |  |
| Payment  authorization  request | A composite of elements electronically sent to an authorization service, usually as a char array.  Elements include: flight ID, customer account  number, amount, payment card number and expiration date, and timestamp. |  |  |  |
| Two-Factor Authentication | Is a method of confirming a user’s claimed identity by using something they know (password) and a second factor ( a code sent to their email) | Password + 6 digits code | 1- User must enter the account password first.  2- a randomly 6 digit code is generated if the password is correct  3- an email is sent to the user’s email containing the code.  4- the code must be entered to gain access to the system. |  |
| Ticket | A document that allows a user onto a flight. One ticket is able to be used for one seat on a flight. | PDF file, barcode | Ticket must belong to the proper flight.  Barcode must be visible and easily scanned to board the flight.  Information on ticket must match to the person it belongs to. |  |
| Flight | A plane taking passengers from one place to another. |  |  |  |
| Sale | A transaction involving a user buying plane tickets, hotel reservations, flight addons, and more. |  |  |  |
| Plane | A powered flying vehicle used to fly from one location to another. |  |  |  |
| FlightDescription | Information describing a specific flight. This includes dates, locations, stops, prices, weather, and status. These descriptions will be available to Customers through flight listings and ticket information. | Table, PDF file | Flight descriptions must match to the proper flight.  Only one flight description per flight. The prices are subject to change. | Flight Listing |
| Airport | Location where all flights depart from and arrive to. Contains multiple terminals for people to board planes. The airport can also contain planes that are waiting for their flight or just need to be stored. |  |  |  |
| Bags | Storage items customers bring onto flights. Customers will pay for every bag they include as well as how heavy it is. |  |  |  |
| Meals | Meals are contained on every single flight. Customers can purchase a given amount of meals to eat on the flight. Not all flights will offer the same meal. |  |  |  |
| Hotel Advertisement System | This system is an external system that can be accessed after a Customer searches or books a fight. It allows the Customer to request to view a hotel advertisement based on the destination location. The Customer can also request not to view it. | Name of Hotel, Address, Room Prices | Only one hotel advertisement can be returned if requested by the Customer | Advertisement System |