Create Reservation API for eRentNow

**Modifications to the Document:**

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|  | | | |
| **Date** | **Changed by:** | **Description of Change** | **Version Implemented** |
| 03/29/2021 | Greg Gardner | Created | 3.0.0.XXX |
|  |  |  |  |

**Deliverable: 3.0.0.XXX**

# Specifications

Jira XXXX

**Create Reservation API for eRentNow**

# Narrative Overview

This story will cover adding the Create Reservation API that will be used by the eRentNow Application/Website to create a Rental Reservation in the Softbase Application. eRentNow will call this API and pass information that was entered by users of the Application/Website who are requesting to rent equipment. This API will populate tables in a SQL Database that will be used by a Softbase feature to pull the data in and create a Work Order Rental Reservation.

# [User Interface](about:blank)

* NA

# Business Rules

* Create the Create Reservation API that will use the following fields and business rules to create a Rental Reservation in a SQL Database table that will be consumed by the Softbase Application to create a Work Order Rental Reservation.
  + The API should be created as a POST method to create the Rental Reservation in Softbase
  + The following fields will be able to be passed in on the API.
  + A SQL Database Table should be created in Softbase to store this data passed in on the API.
  + Only one incoming request (Rental Reservation) will be accepted at a time of a Post.
  + eRentNow will be required to pass in a unique key to be used to authorize the Softbase Server to allow the API call to succeed.
    - Softbase will generate the key and then it will need to be stored on the eRent and Softbase side.
  + HTTPS will be required to communicate between the eRentNow application/website and the Softbase Server.
  + Multiple pieces of equipment can be rented on the same document number and would be included under the Equipment Detail Node.
  + Multiple Charges can be applied to each piece of equipment being requested to be rented and they would be included under the FeesDetail Node.

**POST /api/eRent/v1/Reservation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Field** | **Data Type** | **Length/Format** | **Required** | **Business Rules** |
| DocumentNumber | String |  | Yes | This is a Document Number that is passed in from eRentNow that will be used to uniquely identify the reservation coming from eRentNow App/Website into a 3rd Party application. |
| CustomerNumber | String |  |  | This is the Customer Number the Rental Reservation is for. |
| CustomerPO | String |  |  | Customer PO Number provided from the user who requested the rental in eRentNow |
| Location | String |  |  | This is the location that the Customer is wanting to rent the piece of equipment form. |
| Comments | String |  |  | Comments that were passed in as part of the Reservation requested from the customer. |
| Insurance | Base64 Encoded String |  |  | This is the Image or Document that the customer uploaded to provide as proof of insurance in order to rent the piece of equipment. |
| EquipmentDetail | Node |  |  | This node will be used to identify the equipment the Customer has chosen to rent on the Rental Reservation coming from eRentNow.  This node could contain multiple pieces of equipment |
| ModelGroup | String |  |  | Model Group of the selected piece of equipment from eRentNow |
| EquipmentGroup | String |  |  | Equipment Group of the selected piece of equipment from eRentNow |
| Quantity | Integer |  |  | Quantity the user would like to rent of the selected piece of equipment from eRentNow |
| StartDate | Date |  |  | Date that the user would like to pickup or have the delivery take place of the piece of equipment from eRentNow |
| ReturnDate | Date |  |  | Date that the user would like to return or have the pickup take place of the piece of equipment from eRentNow |
| DailyRate | Currency |  |  | Daily Rental Rate of the selected piece of equipment from eRentNow |
| WeeklyRate | Currency |  |  | Weekly Rental Rate of the selected piece of equipment from eRentNow |
| MonthlyRate | Currency |  |  | Monthly Rental Rate of the selected piece of equipment from eRentNow |
| Transportation | String |  |  | Informational field to notify the Dealer whether the Customer who is choosing to rent the piece of equipment would like to pick up the piece of equipment or have it delivered. |
| FeesDetail | Node |  |  | This node will contain charges that can be applied to the equipment to be rented.  This node could contain multiple charges/fees |
| Charge | String |  |  | This is the Description of the charge that is being added to the contract as a result of renting the piece of equipment. |
| Amount | Currency |  |  | This is the amount of the charge that is being added to the contract as a result of renting the piece of equipment. |

Header Format

**Request API Sample in JSON**

{

"documentNumber":"1005",

"customerNumber":"BDI000",

"customerPO":"121256",

"location":"Houston",

"comments":"Make sure to have dropped off at back gate",

"insurance":"{Put Base64 Encoded Picture string here",

"equipmentDetail":[

{

"modelGroup":"Lift",

"equipmentGroup":"2000 - 3000LB",

"quantity":"1",

"startDate":"2021-04-01T00:00:00.000Z",

"returnDate":"2021-04-05T00:00:00.000Z",

"dailyRate":"50.00",

"weeklyRate":"225.00",

"monthlyRate":"800.00",

"transportation":"Delivery",

"feesDetail":[

{

"charge":"Delivery",

"amount":"55.00"

},

{

"charge":"Pickup",

"amount":"60.00"

}

]

},

{

"modelGroup":"Lift",

"equipmentGroup":"1000 - 2000LB",

"quantity":"1",

"startDate":"2021-04-01T00:00:00.000Z",

"returnDate":"2021-04-05T00:00:00.000Z",

"dailyRate":"30.00",

"weeklyRate":"120.00",

"monthlyRate":"450.00",

"transportation":"Delivery",

"feesDetail":[

{

"charge":"Delivery",

"amount":"55.00"

},

{

"charge":"Pickup",

"amount":"40.00"

}

]

}

]

}