Github URL: <https://github.com/ScottJ476/S3SpringBootWeek06FinalProject>

Overview: This Web API focuses on Guitar Sales. It consists of Customers, Guitars, Capos, Stands, Picks, Straps, Images, and Orders tables. The Orders table is the join table that allows a many to many relationship (one customer can order multiple guitars, and one guitar can be owned by multiple customers for instance). Each order can have a guitar, capo, stand, pick, and strap ordered by a customer and the price is calculated automatically. The end user can create, read, update, and delete an order in addition to uploading/fetching an image and fetching a guitar. The Images table creates a one to many relationship (each guitar can have multiple images, but each image can only be assigned to one guitar). The Get Guitars has the four possible outcomes with HTTP Status Codes (OK, BAD\_REQUEST, NOT\_FOUND, INTERNAL\_SERVER\_ERROR). Please see the screenshots below.

ERD Diagram:

A screenshot of a computer

Description automatically generated with medium confidence

Get Guitars using guitarId:

A picture containing text, screenshot, monitor, computer

Description automatically generated

Get Orders using orderId:

A picture containing text, screenshot, monitor, computer

Description automatically generated

Create Order using JSON: A screenshot of a computer

Description automatically generated

A picture containing text, screenshot, computer, monitor

Description automatically generatedA screenshot of a computer

Description automatically generated

Update Order using JSON (updated guitar from 912CE\_TAYLOR to 0018\_MARTIN and price was updated automatically):A picture containing text, screenshot, monitor, computer

Description automatically generatedA screenshot of a computer

Description automatically generated

Delete Order using orderId:Graphical user interface, text, application, email, website

Description automatically generatedA screenshot of a computer

Description automatically generated

Upload Image using a JPG:A screenshot of a computer

Description automatically generated with medium confidenceGraphical user interface, text, application, email, website

Description automatically generatedA screenshot of a computer

Description automatically generatedA guitar on a table

Description automatically generated with low confidence

Get Image using imageId:

Graphical user interface

Description automatically generated

Get Guitar NOT\_FOUND Error (using unknown guitarId):

Graphical user interface, text, application, email

Description automatically generated

Get Guitar BAD\_REQUEST Error (using illegal characters for guitarId):

Graphical user interface, text, application, email

Description automatically generated

Get Guitar BAD\_REQUEST Error (using guitarId that is too long):

Graphical user interface, text, application, email

Description automatically generated

INTERNAL\_SERVER\_ERROR (simulated using FetchGuitarTest):

Graphical user interface, text

Description automatically generated