

Asynchronously Manipulating Resources



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Coming Up



Creating a Resource

Supporting Bulk Inserts



Demo



Creating a Resource



Supporting Bulk Inserts



Sending 10 requests to api/books to create 10 books leads to

- Overhead
- Performance loss
- Overuse of threads
 - Scalability suffers

Supporting Bulk Inserts



Supporting bulk inserts leads to

- Less overhead
- Performance increase
- Higher availability of threads
 - Better scalability

Supporting Bulk Inserts

POST api/books

```
{  
  one book  
}
```

POST api/bookcollections

```
{  
  one collection of books  
}
```



Supporting Bulk Inserts



Alternative approach: /bulk endpoint

- A set of resources
- A set of resources and operations on them

Lowers maturity of the API according to the Richardson Maturity Model

Demo



Supporting Bulk Inserts



Demo



Supporting a Location Header for Bulk Inserts



Demo



Testing Bulk Inserts with WebSurge



Summary



Use async for I/O bound work

- Adding an entity to the context isn't I/O bound work

Bulk inserts can help with scalability

