Wednesday, 23 August 2023 1:24 AM

Previously we had seen how to consume a promise.

```
const cart = ["shoes", "pants", "kurta"];

const promise = createOrder(cart); // orderId

promise.then(function() {
    proceedToPayment(orderId);
})
```

for to this promise.

>50 create Order () API returned a promise, and then we attach a callback

-> Now, we will create a promise which will be returned by createOrder().

```
function createOrder(cart) {
    const pr = new Promise(function(resolve, reject){
        // createOrder[orderId

        ]);
    return pr;
}
```

To create a promise, we use now keyword and constructor of which takes in 2 powers: resolve & reject - Inside the promise we will write the

Is Fulfilled will be when promise returns Order II. Rejected will be when the promise throws an error.

```
function createOrder(cart) {

const pr = new Promise(function(resolve, reject){
    // createOrder
    // validateCart
    // orderId
    if(!validateCart(cart)) {
        const err = new Error("Cart is not valid");
        reject(err);
    }
    // logic for createOrder
    const orderId = "12345";
    if(orderId) {
        resolve(orderId);
    }
};
```

this is the promise produced for

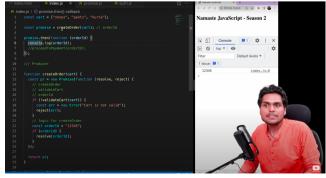
I First we will see if the out items are valid. We will run validat (art() for & if they are invalid we will throw an error & use the reject() for.

Fetch the order ID and we get the order Id, so when we get the order Id we will run the resolve () for.

```
30 function validateCart(cart) []
31 | Ireturn true;
32 |
```

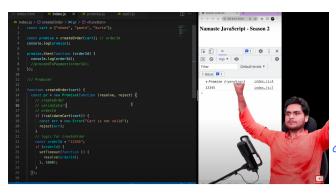
I validate CartCl of just for the salce of

explenation



> So basially create Order () returns a promise and since cart items are present of valuable (art () returns true, promise gets resolved.

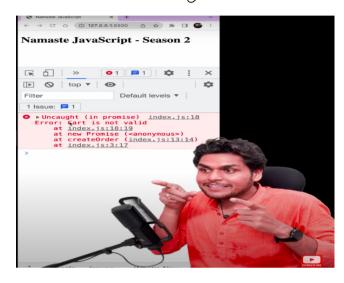
gets the returned ordered & consoles it.



The we put a dolar in the producer for then firstly pending promise is printed because JS does not wait for anyone & consoles the promise, but as soon as the promise is resolved entitloop pushes it into

the coll stack & ordered is printed.

It promise returns rejected state I we haven't handled the rej'ected state then we get an evror:



In order to handle rejection of fromise, we must do error handling, which is done with - catch ().



Thus, we can attach a failure collect the collection of the collec

handle the rejection State of the promise.

-> fromise chaining i

Lets assume there is another promise that takes in order II.

Since this depends on the result of create Order (), so we must do promise draining.

```
const cart = ["shoes", "pants", "kurta"];

createOrder(cart)
   .then(function (orderId) {
      console.log(orderId);
   })
   .then(function() {
      proceedToPayment(orderId);
   })
   .then(function(paymentInfo) {
       console.log(paymentInfo)
   })
   .catch(function (err) {
      console.log(err.message);
   });
```

I we can make a promise drain like this.

I so whatever is returned from

Proceed To Payment C) will automatically be passed
to the next attached allbook of when the

previous one is resolved.

-> but we must return in each step of the promise chain, so the

right ade would be:

```
const cart = ["shoes", "pants", "kurta"];

createOrder(cart)
   .then(function (orderId) {
    console.log(orderId);
    return orderId;
})
   .then(function (orderId) {
    return proceedToPayment(orderId);
})
   .then(function (paymentInfo) {
    consple.log(paymentInfo);
})
   .catch(function (err) {
    console.log(err.message);
});
```

s this would return us a promise which will be resolved.

this catch () houndles any error encountered in whole of the promise chain.



-> So this will be the off of the code.

> 50, when createorder () promise is resolved it returns " 12845" Is consoled.

- we return '12845' & pass it to the callback? Which runs auto- matrically because previous promise resolved. Now we pass order to be
now promise & when resolved it returns us the payment into- when proceed to fayment promise is resolved our next colleack for runs a payment into is consoled.

- What if we put atch () before other than?



Namaste JavaScript - Season 2

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