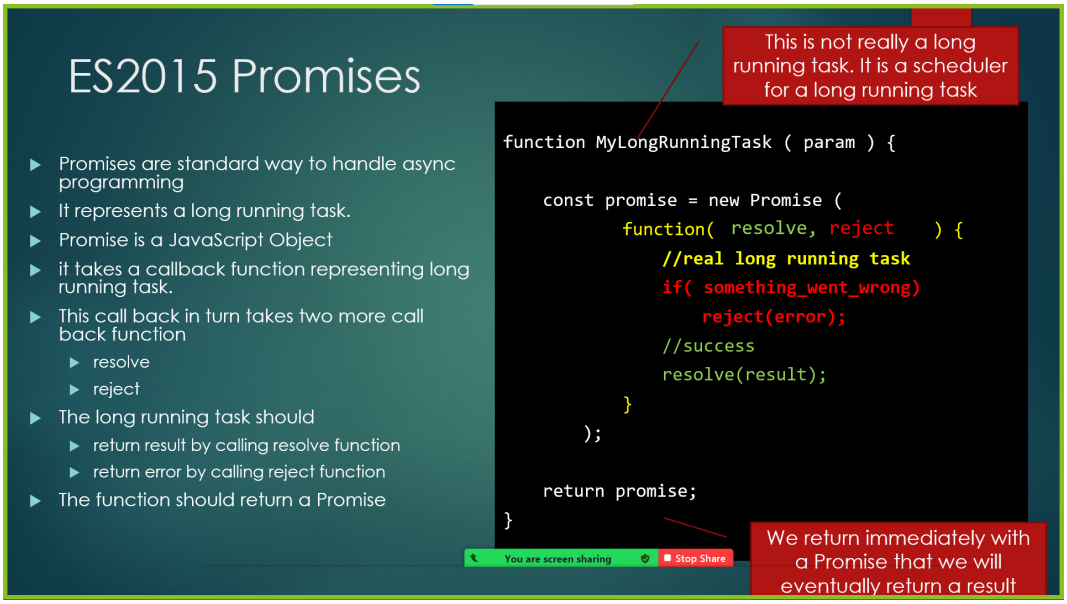
Promise

Tuesday, March 15, 2022 5:17 PM



- The function which we ca schedules a task that may long time to finish.
- This function creates a pr and returns immediately other functions can do wh they want
- When we return a promis
  - We are not returnir result
  - We are promising t will get the result eventually

- Promise is a future tense.
- You promise to return back something in future
- Right now you just have a token

searchAirlines using Promise

```
function airlinesSearch(name, params){

    const p = new Promise ( function(resolve, reject){

        //the real long running task. should be schduled for later
        setTimeout(function(){
            //do your logic here

            let cities=["delhi","mumbai","bangalore","kolkatta","chennai","hyderabad","jaipur"]

            let flights=[] ; //we should return 5 results.

            if( !params)
                return reject(new Error("No parameter"));

            if(!params.from || !cities.includes(params.from))
                return reject(new Error("Missing invalid from city:"+params.from));

            if( !params.to || !cities.includes(params.to) )
                return reject( new Error('Missing Invalid to city:'+params.to));

            if(params.date < new Date())
                return reject(new Error("Invalid Date."));

            let result= {
                airlines:name,
                date: params.date,
                flights:[]
            };

            let i=0;
            let iid= setInterval(()=>{
                result.flights.push(`${name.toUpperCase().substring(0,3)}${i+1}-${params.from.toLowerCase().substring(0,3)
                i++;
                if(i==5){
                    clearInterval(iid);
                    return resolve(result); //result will be sent after 5 seconds
                }

            },1000);
```

Reject a promi

- Resolve the p

```
57
58
59
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61
62          },10) // do it after 10ms
63      });
64
65
66      return p;
67
68  }
69
70
```

Handling a Promise

- When we call an async function we return a Promise
  - Result is not ready yet

- We can configure what to do on
  - Success
  - Failure