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## Filtering an array of objects with javascript map-reduce

Here is the requirement—I have an array of objects and some search text provided by a user. I need to check if any of the object keys contains that search text and filter the array accordingly. For example, if have an array of ‘User’ objects, I want to check the name, phone and email address of the ‘User’ object to see if they contain the search text and filter the User objects array accordingly.

Lets declare an array of unfiltered users and a search text variable first

```
let unfilteredUsers = [
  {name: 'user1', phone: 'phone1', email: 'email1',
  country: 'IN'},
  {name: 'user2', phone: 'phone2', email: 'email2',
  country: 'US'},
  {name: 'user3', phone: 'phone3', email: 'email3',
  country: 'CN'},
  {name: 'user4', phone: 'phone4', email: 'email4',
  country: 'UK'},
];

let searchText = 'phone2';
```

Filtering is just a matter of pushing all your search fields in an array and using map and reduce as shown below -

```
let searchFields = ['name', 'email', 'phone'];
let filteredUsers = unfilteredUsers.filter(user =>
searchFields
  .map(field => user[field].includes(searchText))
  .reduce((res1, res2) => res1 || res2, false));
```

