TypeScript: Implementing interface in the constructor possible?



I have the following interface:



```
interface SMJSPacket {
 header: {
   tag: string;
   method: string;
   type: string;
  response?: {
   status: string;
   content: string;
 };
  event?: {
   key?: string;
   action?: string;
  };
  request?: {
   run?: string;
 };
```

And then I want to implement it as a class and the properties being set in the constructor:

```
class Request implements SMJSPacket {
  constructor(data: any, method: string) {
    this.header = {
      type: 'request',
      method: method || 'calld',
      tag: Request.getTag()
    }
    this.request = data;
}
static getTag(): string {
    return '_' + goog.now() + '_' + utils.getRandomBetween(1, 1000);
```

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same thing in Closure tools also works perfectly. The idea is that I want to implement the interface as a class so I can have utility methods in the prototype but still be able to easily convert to JSON string.

Any ideas?

Thanks

typescript

asked Oct 8 '12 at 11:02 Peter StJ

1 Answer



The language service will statically analyse your declaration of your interface, and because you've expressed that it requires that your header member, that should form part of the class declaration:







```
header: { tag: string; method: string; type: string; };
constructor(data: any, method: string) {
    this.header = {
       type: "request",
        method: (method | "calld"),
        tag: Request.getTag()
    };
static getTag(): string {
    return "tag stuff";
```

class Request implements SMJSPacket {

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```
type: "request",
            method: (method | "calld"),
            tag: Request.getTag()
        };
    Request.getTag = function getTag() {
        return "tag stuff";
    return Request;
})();
```

edited Jul 28 '15 at 8:57

answered Oct 8 '12 at 12:48



52.5k 9

so what's the use of implements Interface? – TSR Mar 12 at 23:25

@TSR: An interface is a contract that the class derived from the interface has to fullfill. The interface says: you class need method X and property Y to implement me, the compiler will fail if it doesn't. e.g.: Interface Vehicle, Classes Car and Bike. Both have at least to implement a method "drive" and a property "tires". Matthew Abbott: Aren't members in typescript the entirety of class components (properties, methods, constructor)? IMO "header property" would be the correct term. Also: One "that" to much, isn't it? Just saw the date of the answer. I'm a gravedigger by heart. - user3469861 Jun 27 at 21:49 🧪

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