

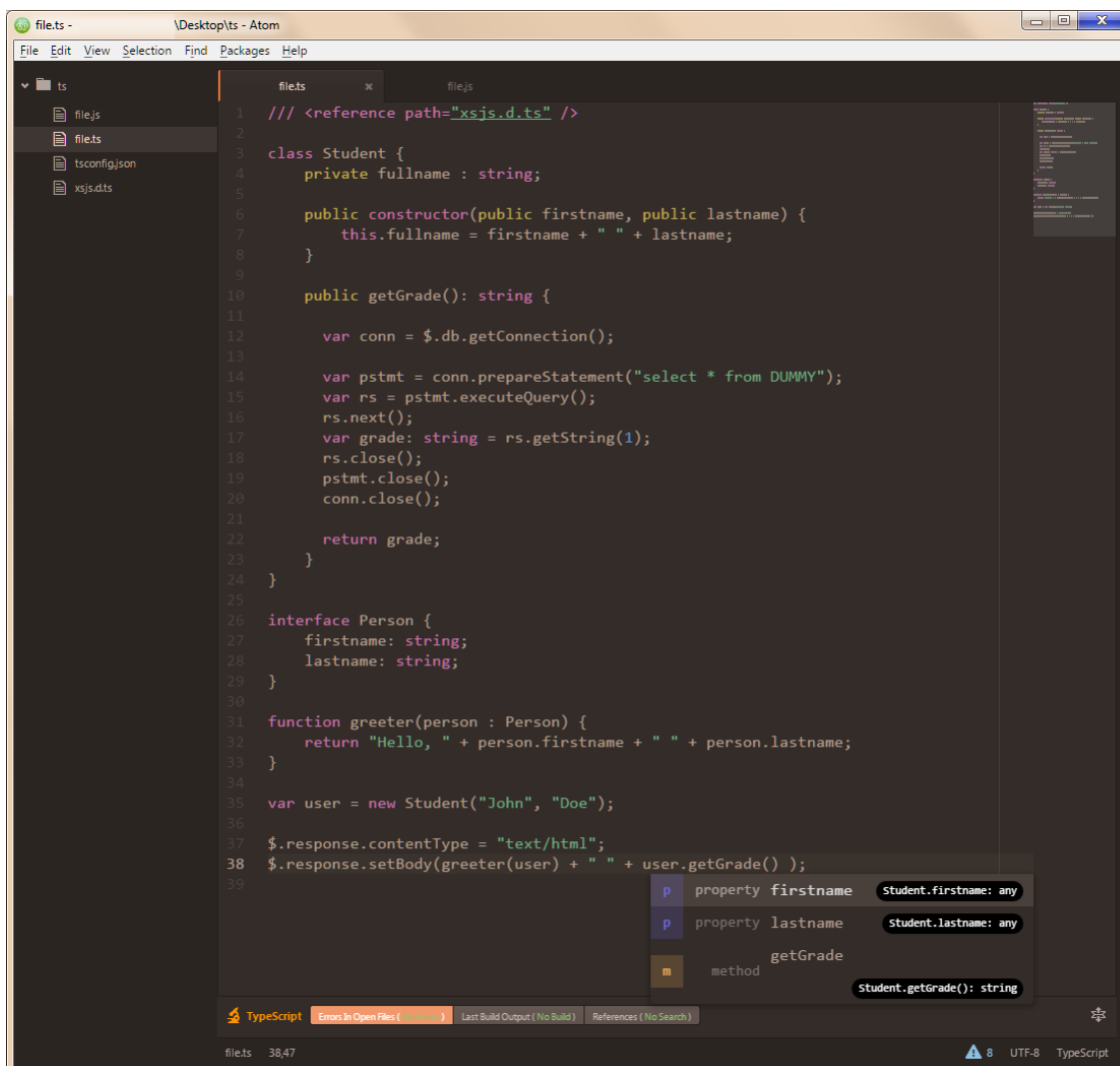
SAP HANA Developer Center: Typescript definitions for HANA XS engine

Posted by [Lars Hvam](#) Apr 30, 2015

Hi All,

I've written a [typescript definitions file](#) for use with SAP HANA XS engine.

This allows you to create your XS applications in typescript, fire up your [favorite typescript editor](#), along with the definitions file:



This shows [Atom](#) with its [typescript plugin](#), it provides syntax highlighting and typeahead features. Saving the file will compile the typescript to javascript:

```
file.ts | file.js x
1  /// <reference path="xsjs.d.ts" />
2  var Student = (function () {
3      function Student(firstname, lastname) {
4          this.firstname = firstname;
5          this.lastname = lastname;
6          this.fullname = firstname + " " + lastname;
7      }
8      Student.prototype.getGrade = function () {
9          var conn = $.db.getConnection();
10         var pstmt = conn.prepareStatement("select * from DUMMY");
11         var rs = pstmt.executeQuery();
12         rs.next();
13         var grade = rs.getString(1);
14         rs.close();
15         pstmt.close();
16         conn.close();
17         return grade;
18     };
19     return Student;
20 })();
21 function greeter(person) {
22     return "Hello, " + person.firstname + " " + person.lastname;
23 }
24 var user = new Student("John", "Doe");
25 $.response.contentType = "text/html";
26 $.response.setBody(greeter(user) + " " + user.getGrade());
27
```

The compiled javascript can be uploaded to the HANA server and run there.

Future Work:

1. Improving definitions file
2. Working with typescript in library files(xsjslib) is a mess, the typescript files can be compiled into one javascript file using compiler flag --out

<https://github.com/larshp/xsjs.d.ts>

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