

Technical Due Diligence Report

train-ticket-master

WALK AWAY

TDR of 67.0% exceeds 50% threshold or 0 critical security issues exceed limit of 10.



67.0%

TECHNICAL DEBT RATIO

\$3,384,480

REMEDIATION CAPEX

\$5,054,449

REPLACEMENT COST

Executive Summary

The target codebase comprises 730 source files totaling 110,947 lines of code. Technical Debt Ratio (TDR) stands at 67.0%, indicating risk level is unacceptable for acquisition. Estimated remediation capital requirement is \$3,384,480 against a replacement cost of \$5,054,449. Security posture is acceptable with 1 low-severity findings requiring attention. Compliance readiness score is 95/100 with 2 control violations mapped to SOC 2/ISO 27001 frameworks. Recommendation: immediate remediation or deal termination.

730

FILES ANALYZED

1

SECURITY ISSUES

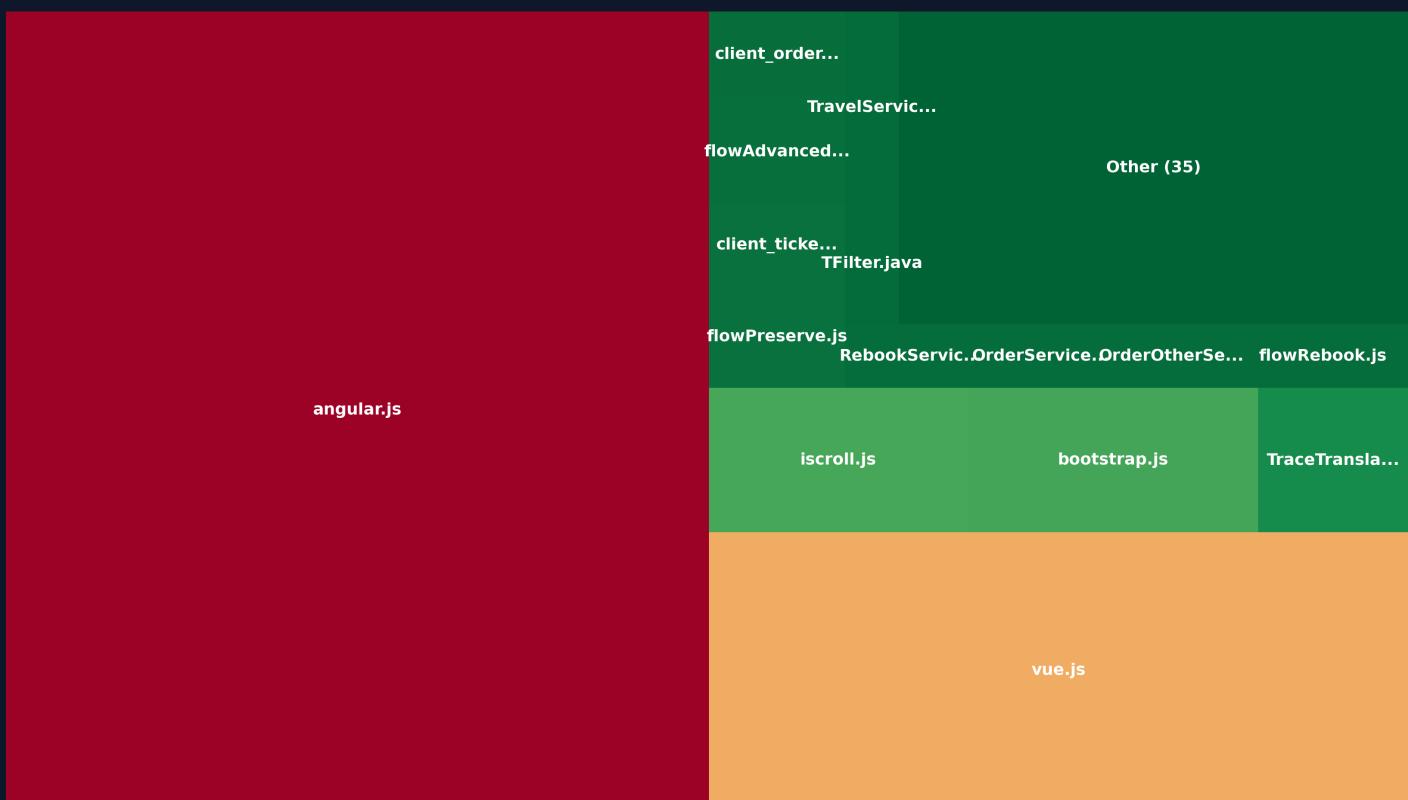
5/10

BUS FACTOR*

*Bus Factor: Minimum team members who could leave before project becomes unmaintainable. 1-3 = Critical | 4-6 = Concerning | 7-10 = Healthy

Codebase Hotspot Map

Each rectangle represents a file, sized by lines of code. Colors show **relative complexity** within this codebase: **Red = Most Complex**, **Green = Least Complex**. High-complexity files are harder to maintain and more prone to bugs.



Strategic Risk Analysis

Severity	Risk	Impact	Est. Capex
HIGH	Excessive Technical Debt	TDR of 67.0% indicates code quality issues that will impact velocity	\$1,353,792

Security Deep Dive (1 findings - 1 Critical/High)

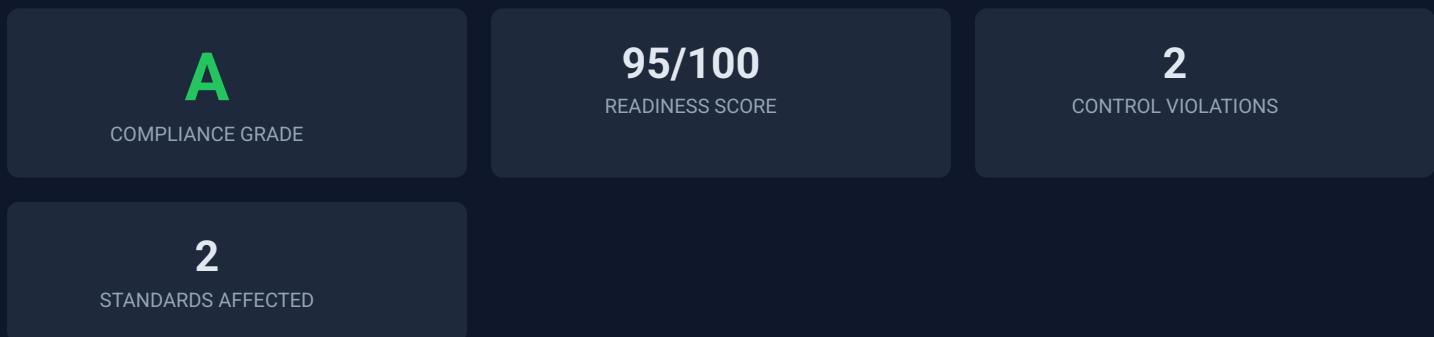
#	Severity	Rule	File	Line
1	CRITICAL	generic-api-key	old-docs/k8s-cluster.txt	73

Open Source Liability (High Risk)

Showing top high-risk dependencies. See Appendix A for full manifest.

Package	Version	Status	Risk	Action
No dependencies detected.				

Appendix C: Compliance Readiness Matrix



Standards Impacted: SOC 2, ISO 27001

SOC 2

Control	Description	Status	Evidence
CC6.6	Encryption Key Management	FAILED	Encryption keys exposed in source code

ISO 27001

Control	Description	Status	Evidence
A.10.1.2	Key Management	NON-COMPLIANT	Cryptographic keys not properly protected

Appendix A: Full Dependency Manifest (381 items)

Package	Version	Type	Origin File
fs	0.0.1-security	RISK	
click	7.1.2	dev	
dlib	19.21.1	dev	
Flask	1.1.2	dev	
gunicorn	20.0.4	dev	
itsdangerous	1.1.0	dev	
Jinja2	2.11.3	dev	
MarkupSafe	1.1.1	dev	
numpy	1.19.5	dev	
opencv-python	4.5.1.48	dev	
Pillow	8.1.2	dev	
Werkzeug	1.0.1	dev	
body-parser	1.18.2	dev	
cookie-parser	1.4.3	dev	
debug	2.6.9	dev	
express	4.15.5	dev	
jade	1.11.0	dev	
mongo	0.1.0	dev	
morgan	1.9.0	dev	
mysql	2.18.1	dev	
serve-favicon	2.4.5	dev	
cryptography	latest	dev	
tornado	latest	dev	
pymysql	latest	dev	
mime-types	2.1.16	dev	
negotiator	0.6.1	dev	
eslint	3.19.0	dev	
eslint-config-standard	10.2.1	dev	
eslint-plugin-import	2.7.0	dev	
eslint-plugin-markdown	1.0.0-beta.6	dev	
eslint-plugin-node	5.1.1	dev	
eslint-plugin-promise	3.5.0	dev	
eslint-plugin-standard	3.0.1	dev	
istanbul	0.4.5	dev	
mocha	1.21.5	dev	
babel-core	5.6.15	dev	
babelify	6.1.2	dev	
browserify	10.2.4	dev	
browserify-derequire	0.9.4	dev	

Package	Version	Type	Origin File
unicode-7.0.0	0.1.5	dev	
acorn	2.1.0	dev	
testit	2.0.2	dev	
kind-of	3.0.2	dev	
longest	1.0.1	dev	
repeat-string	1.5.2	dev	
should	*	dev	
word-wrap	1.0.3	dev	
pre-commit	1.0.7	dev	
standard	3.7.3	dev	
babel-minify	0.5.1	dev	
benchmark	2.1.4	dev	
tape	4.x	dev	
safe-buffer	5.1.1	dev	
bytes	3.0.0	dev	
content-type	1.0.4	dev	
depd	1.1.1	dev	
http-errors	1.6.2	dev	
iconv-lite	0.4.19	dev	
on-finished	2.3.0	dev	
qs	6.5.1	dev	
raw-body	2.3.2	dev	
type-is	1.6.15	dev	
methods	1.1.2	dev	
supertest	1.1.0	dev	
buffer	5.6.0	dev	
@babel/plugin-external-helpers	7.10.4	dev	
@babel/preset-env	7.11.0	dev	
@istanbuljs/nyc-config-typescript	1.0.1	dev	
@microsoft/api-extractor	7.28.0	dev	
@rollup/plugin-babel	5.2.0	dev	
@rollup/plugin-commonjs	15.0.0	dev	
@rollup/plugin-json	4.1.0	dev	
@rollup/plugin-node-resolve	9.0.0	dev	
@rollup/plugin-replace	4.0.0	dev	
@rollup/plugin-typescript	6.0.0	dev	
@types/node	18.0.0	dev	
@typescript-eslint/eslint-plugin	5.30.0	dev	
@typescript-eslint/parser	5.30.0	dev	
array-includes	3.1.3	dev	
chai	4.2.0	dev	
eslint-config-prettier	8.5.0	dev	

Package	Version	Type	Origin File
eslint-plugin-prettier	4.1.0	dev	
eslint-plugin-tsdoc	0.2.16	dev	
karma	6.3.4	dev	
karma-chai	0.1.0	dev	
karma-chrome-launcher	3.1.0	dev	
karma-mocha	2.0.1	dev	
karma-mocha-reporter	2.2.5	dev	
karma-rollup-preprocessor	7.0.5	dev	
node-fetch	2.6.1	dev	
nyc	15.1.0	dev	
object.entries	1.1.5	dev	
prettier	2.7.1	dev	
rimraf	3.0.2	dev	
rollup	2.26.5	dev	
rollup-plugin-commonjs	10.1.0	dev	
rollup-plugin-node-globals	1.4.0	dev	
rollup-plugin-node-polyfills	0.2.1	dev	
rollup-plugin-polyfill-node	0.7.0	dev	
standard-version	9.5.0	dev	
ts-node	9.0.0	dev	
tsd	0.21.0	dev	
typescript	4.7.4	dev	
typescript-cached-transpile	0.0.6	dev	
uuid	8.3.2	dev	
base64-js	1.3.1	dev	
ieee754	1.1.13	dev	
airtap	3.0.0	dev	
concat-stream	2.0.0	dev	
hyperquest	2.1.3	dev	
is-buffer	2.0.4	dev	
is-nan	1.3.0	dev	
split	1.0.1	dev	
through2	4.0.2	dev	
uglify-js	3.11.3	dev	
ava	0.0.4	dev	
align-text	0.1.3	dev	
lazy-cache	1.0.3	dev	
better-assert	1.0.0	dev	
commander	2.8.x	dev	
source-map	0.4.x	dev	
http-proxy	1.x	dev	
jshint	2.8.x	dev	

Package	Version	Type	Origin File
nock	2.x	dev	
server-destroy	1.x	dev	
vows	0.8.x	dev	
center-align	0.1.1	dev	
right-align	0.1.1	dev	
wordwrap	0.0.2	dev	
blanket	1.1.6	dev	
coveralls	2.11.2	dev	
mocha-lcov-reporter	0.0.2	dev	
mocoverage	1.0.0	dev	
patched-blanket	1.0.1	dev	
cookie	0.3.1	dev	
cookie-signature	1.0.6	dev	
tap	2.3.0	dev	
css-parse	1.0.4	dev	
css-stringify	1.0.5	dev	
ms	2.0.0	dev	
concurrently	3.1.0	dev	
karma-phantomjs-launcher	1.0.2	dev	
karma-sinon	1.0.5	dev	
sinon	1.17.6	dev	
sinon-chai	2.8.0	dev	
xo	*	dev	
codecov	3.8.3	dev	
double-ended-queue	2.1.0-0	dev	
beautify-benchmark	0.2.4	dev	
seedrandom	2.4.3	dev	
accepts	1.3.3	dev	
array-flatten	1.1.1	dev	
content-disposition	0.5.2	dev	
encodeurl	1.0.1	dev	
escape-html	1.0.3	dev	
etag	1.8.0	dev	
finalhandler	1.0.6	dev	
fresh	0.5.2	dev	
merge-descriptors	1.0.1	dev	
parseurl	1.3.1	dev	
path-to-regexp	0.1.7	dev	
proxy-addr	1.1.5	dev	
range-parser	1.2.0	dev	
send	0.15.6	dev	
serve-static	1.12.6	dev	

Package	Version	Type	Origin File
setprototypeof	1.0.3	dev	
statuses	1.3.1	dev	
utils-merge	1.0.0	dev	
vary	1.1.1	dev	
after	0.8.2	dev	
connect-redis	2.4.1	dev	
cookie-session	1.3.1	dev	
ejs	2.5.7	dev	
express-session	1.15.5	dev	
hbs	4.0.1	dev	
marked	0.3.6	dev	
method-override	2.3.9	dev	
multiparty	4.1.3	dev	
pbkdf2-password	1.2.1	dev	
vhost	3.0.2	dev	
unpipe	1.0.0	dev	
readable-stream	2.3.3	dev	
inherits	2.0.3	dev	
async	*	dev	
errto	*	dev	
iconv	*	dev	
request	*	dev	
semver	*	dev	
unorm	*	dev	
coffee-script	1.12.6	dev	
nodeunit	0.8.2 <0.8.7	dev	
zuul	3.0.0	dev	
character-parser	1.2.1	dev	
clean-css	3.1.9	dev	
constantinople	3.0.1	dev	
jstransformer	0.0.2	dev	
mkdirp	0.5.0	dev	
transformers	2.1.0	dev	
void-elements	2.0.1	dev	
with	4.0.0	dev	
browserify-middleware	4.1.0	dev	
code-mirror	3.22.0	dev	
github-basic	4.1.2	dev	
handle	1.0.0	dev	
highlight-codemirror	4.1.0	dev	
inconsolata	0.0.2	dev	
jade-code-mirror	1.0.5	dev	

Package	Version	Type	Origin File
jade-highlighter	1.0.5	dev	
jstransformer-cdata	0.0.3	dev	
jstransformer-coffee-script	0.0.2	dev	
jstransformer-less	1.0.0	dev	
jstransformer-marked	0.0.1	dev	
jstransformer-stylus	0.0.1	dev	
jstransformer-verbatim	0.0.2	dev	
less	2.0.0	dev	
less-file	0.0.9	dev	
linify	*	dev	
lsr	1.0.0	dev	
opener	1.3.0	dev	
pull-request	3.0.0	dev	
stop	3.0.0-rc1	dev	
stylus	*	dev	
twbs	0.0.6	dev	
is-promise	2.0.0	dev	
promise	6.0.1	dev	
ansi-bold	0.1.1	dev	
benchmarked	1.0.0	dev	
glob	7.1.1	dev	
gulp-format-md	0.1.12	dev	
type-of	2.0.1	dev	
typeof	1.0.0	dev	
ansi-yellow	0.1.1	dev	
fill-range	2.1.0	dev	
mime-db	1.2.0	dev	
bluebird	3.5.0	dev	
co	4.6.0	dev	
cogent	1.0.1	dev	
csv-parse	1.2.1	dev	
gnode	0.1.2	dev	
stream-to-array	2.3.0	dev	
covert	1.0.0	dev	
minimist	1.2.6	dev	
mongodb	*	dev	
bson	4.6.5	dev	
denque	2.0.1	dev	
mongodb-connection-string-url	2.5.2	dev	
socks	2.6.2	dev	
@iarna/toml	2.2.5	dev	
@microsoft/tsdoc-config	0.16.1	dev	

Package	Version	Type	Origin File
@mongodb-js/zstd	1.0.0	dev	
@types/chai	4.3.1	dev	
@types/chai-subset	1.3.3	dev	
@types/express	4.17.13	dev	
@types/kerberos	1.1.1	dev	
@types/mocha	9.1.1	dev	
@types/saslprep	1.0.1	dev	
@types/semver	7.3.9	dev	
@types/sinon	10.0.11	dev	
@types/sinon-chai	3.2.8	dev	
@types/whatwg-url	8.2.1	dev	
chai-subset	1.6.0	dev	
chalk	4.1.2	dev	
eslint-plugin-simple-import-sort	7.0.0	dev	
js-yaml	4.1.0	dev	
mocha-sinon	2.1.2	dev	
source-map-support	0.5.21	dev	
xml2js	0.4.23	dev	
yargs	17.5.1	dev	
whatwg-url	11.0.0	dev	
eslint-config-semistandard	15.0.1	dev	
gen-esm-wrapper	1.1.3	dev	
basic-auth	2.0.0	dev	
on-headers	1.0.1	dev	
expect.js	0.3.1	dev	
husky	0.13.3	dev	
lint-staged	3.4.1	dev	
bignumber.js	9.0.0	dev	
sqlstring	2.3.1	dev	
timezone-mock	0.0.7	dev	
urun	0.0.8	dev	
utest	0.0.8	dev	
ee-first	1.1.1	dev	
hashish	0.0.4	dev	
fast-url-parser	1.1.3	dev	
asap	1.0.0	dev	
promises-aplus-tests	*	dev	
forwarded	0.1.0	dev	
ipaddr.js	1.4.0	dev	
@ljharb/eslint-config	12.2.1	dev	
editorconfig-tools	0.1.1	dev	
evalmd	0.0.17	dev	

Package	Version	Type	Origin File
qs-iconv	1.0.4	dev	
safe-publish-latest	1.1.1	dev	
ansi-cyan	0.1.1	dev	
isobject	2.1.0	dev	
repeating	3.0.0	dev	
text-table	0.2.0	dev	
yargs-parser	4.0.2	dev	
sparse-bitfield	3.0.3	dev	
@nodertc/eslint-config	0.2.1	dev	
jest	23.6.0	dev	
destroy	1.0.4	dev	
mime	1.3.4	dev	
temp-path	1.0.0	dev	
tslint	5.18.0	dev	
ip	2.0.0	dev	
smart-buffer	4.2.0	dev	
@types/ip	1.1.0	dev	
amdefine	0.0.4	dev	
dryice	0.4.8	dev	
memory-pager	1.0.2	dev	
buffer-alloc	1.1.0	dev	
punycode	2.1.1	dev	
@domenic/eslint-config	1.4.0	dev	
@unicode/unicode-14.0.0	1.2.1	dev	
minipass-fetch	1.4.1	dev	
regenerate	1.4.2	dev	
css	1.0.8	dev	
atpl	*	dev	
coffeecup	*	dev	
coffeeekup	*	dev	
component-builder	*	dev	
cson	*	dev	
dot	*	dev	
dust	*	dev	
dustjs-linkedin	*	dev	
eco	*	dev	
ect	*	dev	
haml-coffee	*	dev	
hamljs	*	dev	
handlebars	*	dev	
highlight.js	*	dev	
hogan.js	*	dev	

Package	Version	Type	Origin File
html2jade	*	dev	
jazz	*	dev	
jqtpl	*	dev	
just	*	dev	
liquor	*	dev	
markdown	*	dev	
markdown-js	*	dev	
mote	*	dev	
mustache	*	dev	
plates	*	dev	
qejs	*	dev	
sass	*	dev	
supermarked	*	dev	
swig	*	dev	
temployed	*	dev	
then-jade	*	dev	
toffee	*	dev	
underscore	*	dev	
walrus	*	dev	
whiskers	*	dev	
media-typer	0.3.0	dev	
uglify-to-browserify	1.0.0	dev	
cheerio	0.18.0	dev	
tr46	3.0.0	dev	
webidl-conversions	7.0.0	dev	
domexception	4.0.0	dev	
got	11.8.2	dev	
webidl2js	17.0.0	dev	
acorn-globals	1.0.3	dev	
expresso	0.7.x	dev	
camelcase	1.0.2	dev	
cliui	2.1.0	dev	
decamelize	1.0.0	dev	
window-size	0.1.0	dev	
doctoc	0.15.0	dev	
webpack	1.12.0	dev	
mocha-as-promised	1.2.1	dev	
optimist	0.3.5	dev	
core-util-is	1.0.0	dev	
isarray	1.0.0	dev	
process-nextick-args	2.0.0	dev	
string_decoder	1.1.1	dev	

Package	Version	Type	Origin File
util-deprecate	1.0.1	dev	
assert	1.4.0	dev	
babel-polyfill	6.9.1	dev	
lolex	2.3.2	dev	
graceful-readlink	1.0.0	dev	
@types/webidl-conversions	*	dev	

Appendix B: Codebase Complexity Ledger (Top 200 of 50 files)

#	File	Complexity	Lines	Language
1	ts-ui-dashboard/static/assets/js/angular.js	2532	31,768	JavaScript
2	ts-ui-dashboard/static/assets/js/vue.js	1744	10,947	JavaScript
3	ts-ui-dashboard/static/assets/js/iscroll.js	450	2,121	JavaScript
4	ts-ui-dashboard/static/js/bootstrap.js	449	2,377	JavaScript
5	old-docs/Json2Shiviz/src/main/java/org/services/analysis/TraceTranslator.java	267	1,226	Java
6	ts-ui-dashboard/static/js/flowPreserve.js	125	796	JavaScript
7	ts-ui-dashboard/static/assets/js/client_ticket_book.js	120	617	JavaScript
8	ts-ui-dashboard/static/js/flowAdvancedSearch.js	118	833	JavaScript
9	ts-ui-dashboard/static/assets/js/client_order_list.js	102	663	JavaScript
10	ts-rebook-service/src/main/java/rebook/service/RebookServiceImpl.java	96	475	Java
11	ts-order-service/src/main/java/order/service/OrderServiceImpl.java	95	470	Java
12	ts-order-other-service/src/main/java/other/service/OrderOtherServiceImpl.java	94	477	Java
13	ts-ui-dashboard/static/js/flowRebook.js	92	621	JavaScript
14	old-docs/Lib/ms-monitoring-core/src/main/java/org/myproject/ms/monitoring/instrument/web/TFilter.java	83	371	Java
15	ts-travel-service/src/main/java/travel/service/TravelServiceImpl.java	82	584	Java
16	ts-travel2-service/src/main/java/travel2/service/TravelServiceImpl.java	69	497	Java
17	ts-basic-service/src/main/java/fdse/microservice/service/BasicServiceImpl.java	67	485	Java
18	ts-ui-dashboard/static/assets/js/index.js	62	327	JavaScript
19	ts-cancel-service/src/main/java/cancel/service/CancelServiceImpl.java	60	336	Java
20	ts-food-service/src/main/java/foodsearch/service/FoodServiceImpl.java	54	312	Java
21	ts-ui-dashboard/static/js/bs_main.js	53	284	JavaScript
22	ts-inside-payment-service/src/main/java/inside_payment/service/InsidePaymentServiceImpl.java	50	370	Java
23	ts-admin-travel-service/src/main/java/admintravel/service/AdminTravelServiceImpl.java	49	289	Java
24	ts-ui-dashboard/static/js/notification.js	46	113	JavaScript
25	ts-ui-dashboard/static/assets/js/echarts.min.js	45	35	JavaScript
26	old-docs/Lib/ms-monitoring-core/src/main/java/org/myproject/ms/monitoring/Item.java	45	580	Java
27	ts-preserve-service/src/main/java/preserve/service/PreserveServiceImpl.java	44	433	Java
28	ts-preserve-other-service/src/main/java/preserveOther/service/PreserveOtherServiceImpl.java	44	436	Java
29	ts-ui-dashboard/static/js/orderRebook.js	42	113	JavaScript
30	ts-ui-dashboard/static/assets/js/client_adsearch.js	41	210	JavaScript
31	ts-ui-dashboard/static/js/basicInformation.js	40	104	JavaScript
32	ts-ui-dashboard/static/js/ticketInformation.js	40	102	JavaScript
33	old-docs/Lib/ms-monitoring-core/src/main/java/org/myproject/ms/monitoring/trace/DChainer.java	40	264	Java
34	old-docs/Lib/ms-monitoring-core/src/main/java/org/myproject/ms/monitoring/antn/SleuthAdvisorConfig.java	38	295	Java
35	old-docs/ts-ui-test/src/test/java/TestFlowOne.java	37	264	Java
36	ts-ui-dashboard/static/js/upload.js	36	167	JavaScript
37	ts-execute-service/src/main/java/execute/serivce/ExecuteServiceImpl.java	36	191	Java

#	File	Complexity	Lines	Language
38	ts-ui-dashboard/static/assets/js/old_index.js	34	408	JavaScript
39	ts-ui-dashboard/static/assets/js/admin_travel.js	33	382	JavaScript
40	ts-ui-dashboard/static/assets/js/aliyun-oss-sdk.min.js	32	18	JavaScript
41	ts-route-plan-service/src/main/java/plan/service/RoutePlanServiceImpl.java	32	356	Java
42	ts-assurance-service/src/main/java/assurance/service/AssuranceServiceImpl.java	32	158	Java
43	ts-ui-dashboard/static/js/contacts.js	31	193	JavaScript
44	ts-ui-dashboard/static/js/order.js	30	173	JavaScript
45	ts-ui-dashboard/static/js/register.js	30	69	JavaScript
46	ts-ui-dashboard/static/js/ticketOffice.js	30	310	JavaScript
47	old-docs/Lib/ms-monitoring-core/src/main/java/org/myproject/ms/monitoring/instrument/web/THInter.java	27	180	Java
48	ts-ui-dashboard/static/js/travel.js	26	277	JavaScript
49	ts-wait-order-service/src/main/java/waitorder/service/Impl/WaitListOrderServiceImpl.java	25	174	Java
50	ts-order-other-service/src/main/java/other/entity/Order.java	25	119	Java