

JSatOrb: ISAE-Supaero's open-source software tool for teaching classical orbital calculations

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Abstract—JSatOrb is an ISAE-Supaero's software tool dedicated to orbital calculation and designed for pedagogical purposes, with professional level features outputs. It has been initiated to find a soft which would fill the gap between local teachers developed tools and professional tools, exploiting state of the arts algorithms concerning space mechanics calculus. Even if current provided open source libraries are not fully compliant with our pedagogical requirements (simplicity, flexibility, multi-platform and ergonomics), they provide complete and accurate calculus methods that are dedicated to a professional use. However, GUI part is not the main concern when used by space engineers which only require API access.

Concretely, JSatorb project is open-source (MIT license) and under development. It is inspired from current full-stack implementation methods. Ergonomic and intuitivity are at stake concerning the front-end, which is mainly based on Angular (<https://angular.io/>) and Cesium (cesiumjs.org). Efficiency and correctness on calculus are provided by the back-end part, which relies on Orekit (<https://www.orekit.org/>). Developed in Java, Orekit is a space dynamics open source library. It depends only on the Java Standard Edition version 8 and Hipparchus (<https://hipparchus.org/>) version 1.0 libraries at runtime. It is widely used by ESA and CNES.

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I. INTRODUCTION

Historically ISAE-SUPAERO developed a software tool dedicated to orbital calculation and designed for pedagogical purposes: Satorb. It has been widely used for more than fifteen years in teaching master level students. It was closed software, based on VB.NET (<https://code.msdn.microsoft.com/Official-Visual-Studio-448134ee>). SatOrb was designed to easily set satellites in motion and analyse its effects, manoeuvres, ephemeris... JSatOrb can be seen as an evolution of Satorb, open-source and modernised. It designed to be ergonomic, easily understandable, intuitive as a student-focused learning tool. But it should be comparable to professional software for researchers and engineers.

It is inspired from current full-stack implementation methods. Ergonomic and intuitivity are at stake concerning the front-end, which is mainly based on Angular (<https://angular.io/>) and Cesium (cesiumjs.org). Efficiency and correctness on calculus are provided by the back-end part, which relies on Orekit (<https://www.orekit.org/>).

First of all, we describe main features implemented in original Satorb software (Section II), we looked in literature if alternative exist (Section III-A) and which astrodynamics library could be used (Section III-B). The decision on how to handle the user interface has also been taken into account (Section III-D). Afterward, we propose an implementation closer to current web-developpements (Section III-D), based on a front-end providing all functionalities to the end-user, and a back-end handling all calculus to the astrodynamics library.

II. JSATORB SPECIFICATION: AS GOOD AS OUR CURRENT TEACHING TOOL, SATORB

SatOrb is an orbit and multi-satellite, multi-station mission analysis software that allows a 2D or 3D display of satellites and constellations as well as multiple analysis of access, visibility, coverage and reports on the radio links. SatOrb was developed by C. Colongo at ISAE-SUPAERO. Other institutions have contributed to the development such as the German university TU München, [18].

The main available features of this software are summed up in the following list:

- 1) Create satellites which can be given very specific energetic, orbital or behavioural parameters;

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