

SEA5 is designed to provide past, present, and predicted space environment information for specific missions, orbits, and userspecified locations throughout the heliosphere, geospace, and on the ground.



Surface/Internal Charging, Total Dose Radiation, Single Event Effects

Goals

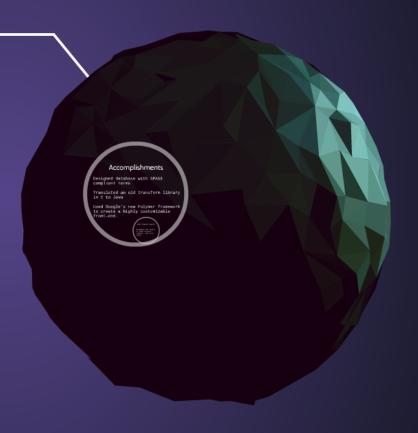
Design the system's database

Create some utilities to perform coordinate conversions and calculate hazard values

Design an easy-to-use user interface

Implement an end-to-end demo for 3 Geosynchronous satellites

BONUS: ISWA Health Report



Accomplishments

Designed database with SPASE compliant terms

Translated an old transform library in C to Java

Used Google's new Polymer framework to create a highly customizable front-end.

ISWA Health Report

Displays the status of ISWA servers, cygnets, and data feeds

ISWA Health Report

Displays the status of ISWA servers, cygnets, and data feeds



What I learned

Java web app development
Creating and using servlets
Polymer Web Components
Basic search engine design
Importance of space weather

Where I'm Going

Google Grad School ...?



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