

# Design of “NOAA/STAR Precipitation Validation” Website

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NOAA/STAR Precipitation Validation System aims to access the performance of the satellite-based precipitation products in near real time to support the end-users and algorithm developers.

**Objective:** Develop an user-interactive website to display NOAA/STAR precipitation validation.

## Environment & Framework

A website was created using the Python Flask framework.

The application was developed in an Anaconda virtual environment with Python 3.6.3, using Flask and other tools:



Summer 2021 - August 25, 2021

## Website Overview

Swath Validation pages allow users to query for satellite validation images.

- By precipitation type - hourly
- By daily satellite overpass

Additional Features:

- Next/previous navigation
- Clear search results
- Redirect to last uncleared search
- Data availability validation
- Collapsible panel & tab subpages
- Back to top button
- Satellite search type toggle
- Page visits & data access counter