

https://skyportal.io

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and other surveys.

extensible so that it can be applied to various astronomy problems related to ZTF, LSST,

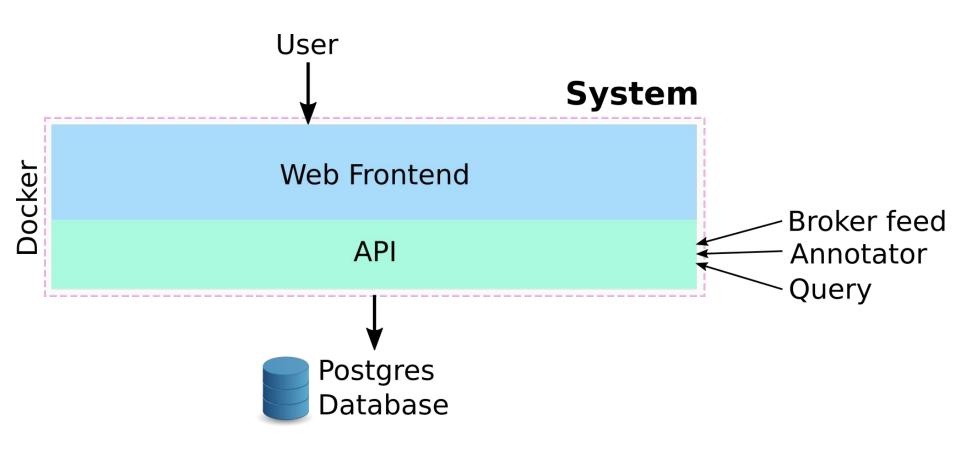
modern web technologies, scales effectively, and is highly highly customizable and

SkyPortal vision: To build a **data portal**, inspired by the PTF marshal, that utilizes

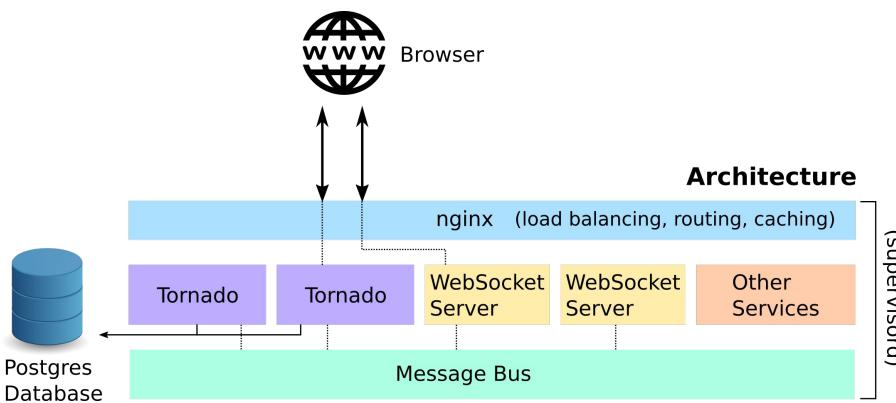
Features:

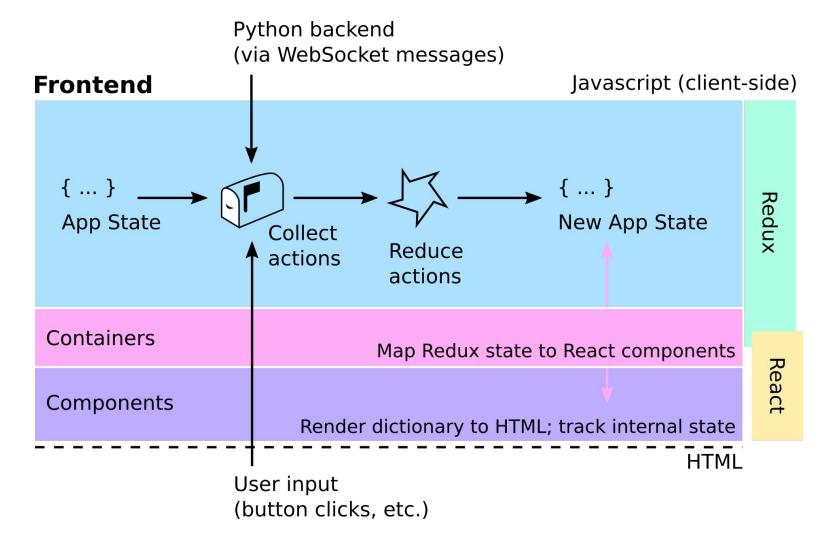
- BSD license
- Extendible & scalable design: a <u>Tornado/Python</u> backend with <u>React</u> & <u>Redux</u> frontend
- API for machine usage
- Fine-grained access control
- Authentication via Google
- Real-time Slack-like messaging
- Visualization using <u>Bokeh</u>
- Distributed computation via <u>Dask</u>
- JOSS Under Review
- Has already been customized and deployed by Danny Goldstein for solving one particular science problem
- Deployment: Laptop, private server, or cloud infrastructure (Kubernetes).

Architecture



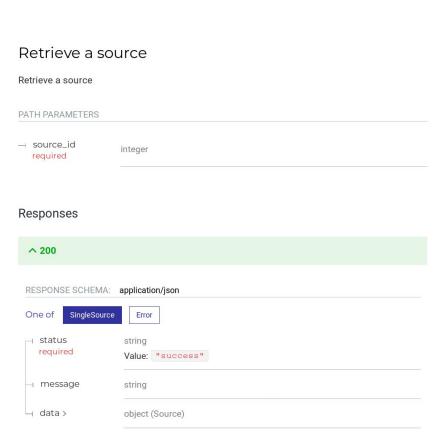
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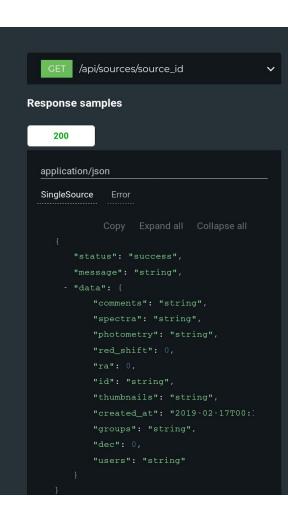




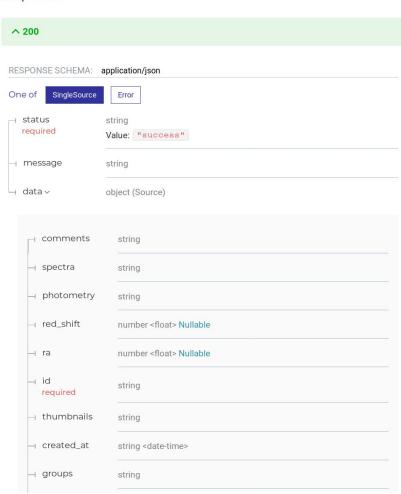
API Documentation







Responses



Detailed API Documentation

Future:

- Implement Kafka client (consume from brokers/marshal, publish streams as broker)
- Allow in-browser customization of views & layout
- Goal: have multiple, decentralized instances of SkyPortal, each with own purpose & user set
- Even easier, **automated deployment**, based on existing Kubernetes work



LSSTacswjsb

Position (J2000): 352.1443, 34.512 (α,δ =23:28:34.63, +34:30:43.20) Redshift: 0.063







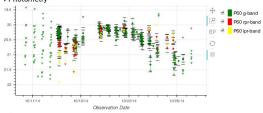
▼ Comments Henrietta Last Friday at 2.26 PM

No source at transient location to R>26 in LRIS imaging

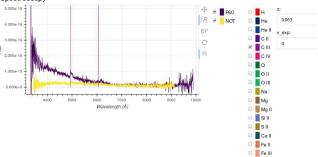
Strong calcium lines have emerged.











▼ Surveys

Gaia DR2 NED TNS SNEx SIMBAD Vizier HEASARC DECam SkyView PyMP MPChecker Extinction CFHT IPAC DSS WISE Subaru VLT FIRST CRTS Variable Marshal (Search) ADS

END

