

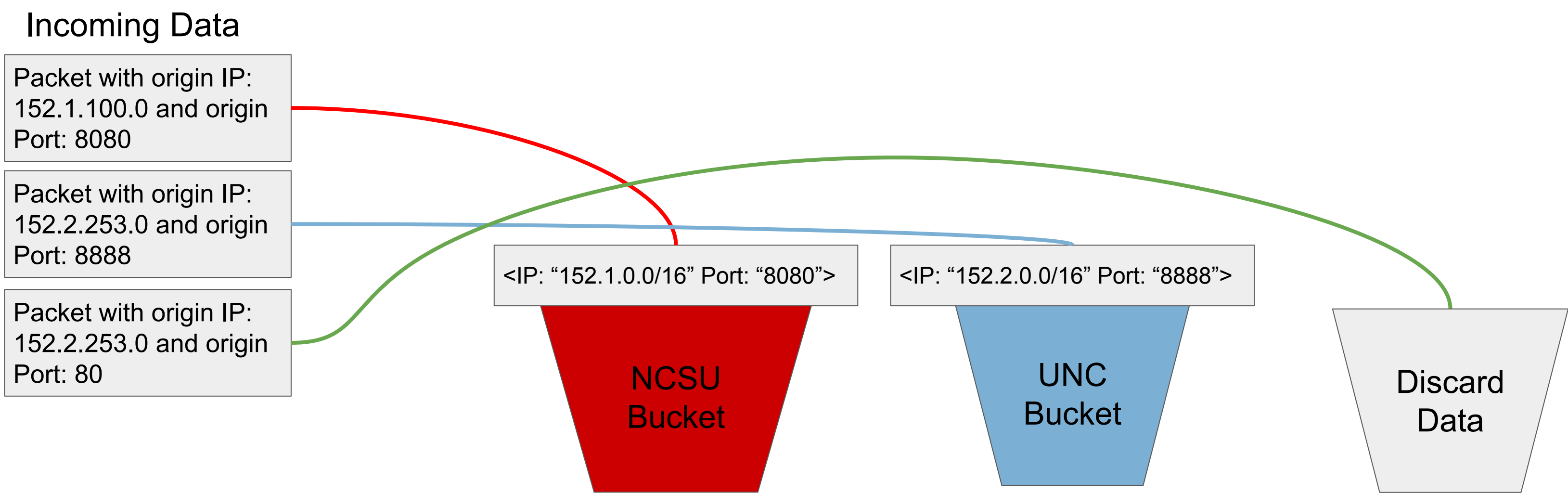
Problem Statement

Laboratory for Analytic Sciences

- Receives lots of data
- Needs to process this data
- The data is unorganized
- Data may not be important

Solution

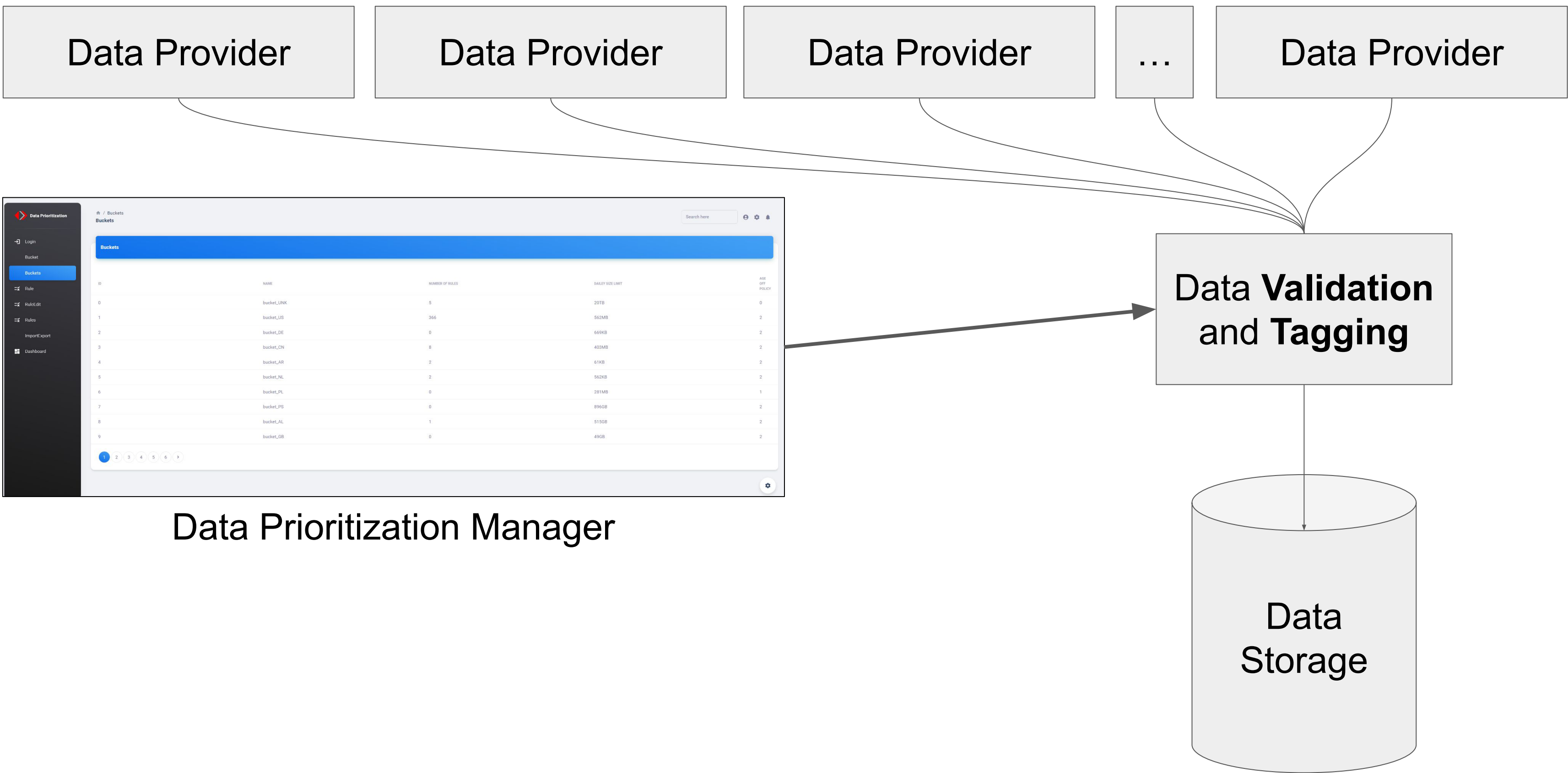
- Data management through a bucket and rule system
- Creation of a webapp to configure the bucket and rules
- Configuration can be exported from webapp to LAS system



Buckets: These are containers for data that is being collected by LAS

Rules: These are IPs or IP-port pairs that determine what data can be collected in buckets

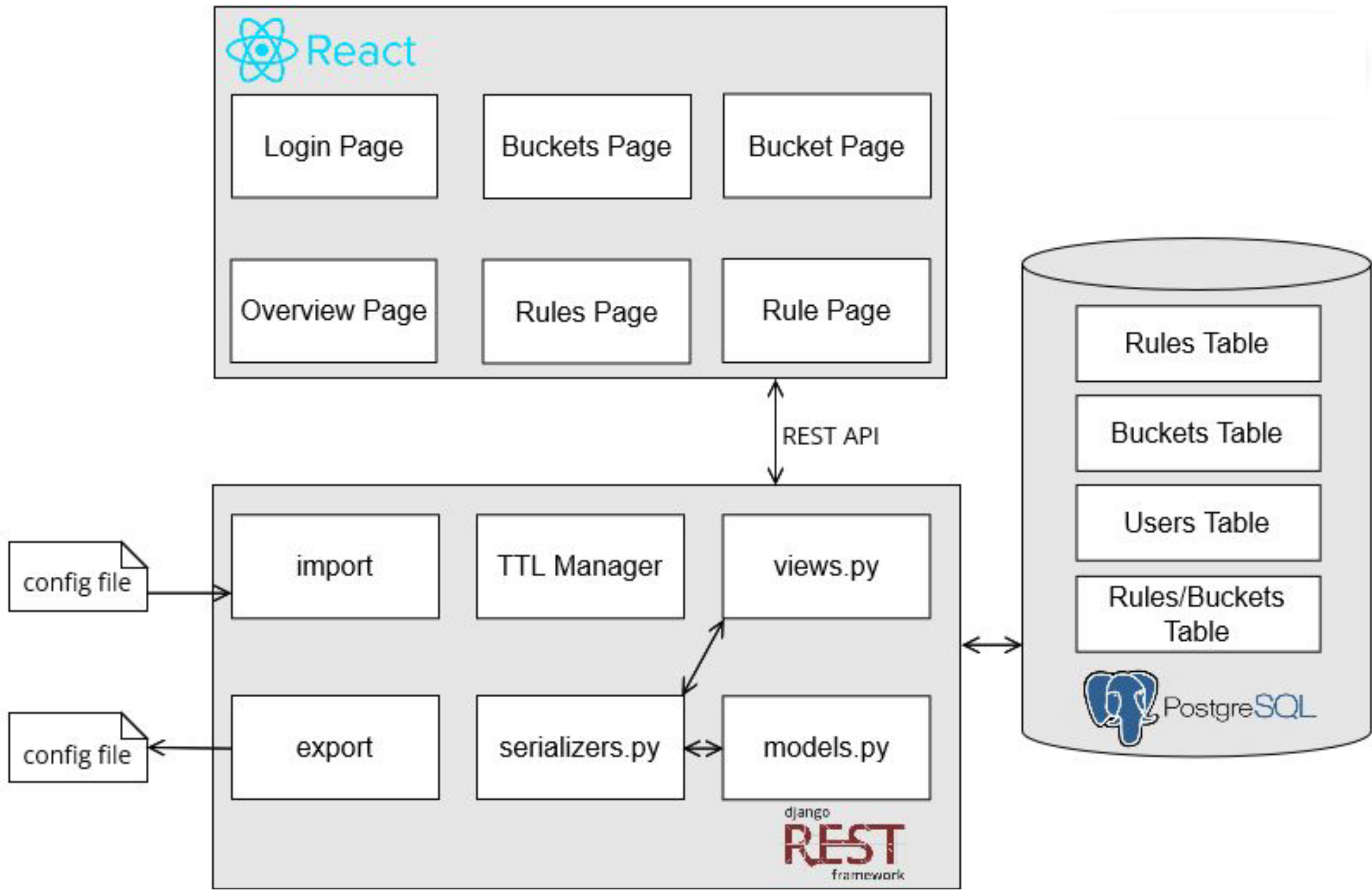
System Overview



Requirements

- User Interface
 - Different user permissions
 - Read only and read/write
 - Login with credentials
 - Creation, editing, and deletion of Rules
 - View Buckets and Rules as Lists
 - View individual Buckets and Rules
 - Can Export system setup as Config File
- Buckets
 - Imported from the database
- Rules
 - Can be created by machine tools or users

Design Overview



Testing

Test Type	Coverage	# Tests	
Unit	89%	55 / 55	Unit tests performed with built-in Django tools.
Model	95%	4 / 4	
View	81%	10 / 10	
Serializer	100%	41 / 41	
System		16 / 17	System tests are performed through black box testing on the frontend