SDSS-IV Autoscheduler

Petunia
(observer web application)

some Python script

list of plates
plate priority

MJD
survey list
mode

MJD
survey list
mode

list of plates
plate priority

APO Autoscheduler Interface

Flask application
HTTP interface

Survey Logic Layer

Combines plates/
priorities for all surveys

APOGEE logic component

MaNGA logic component

eBOSS logic component

APO database
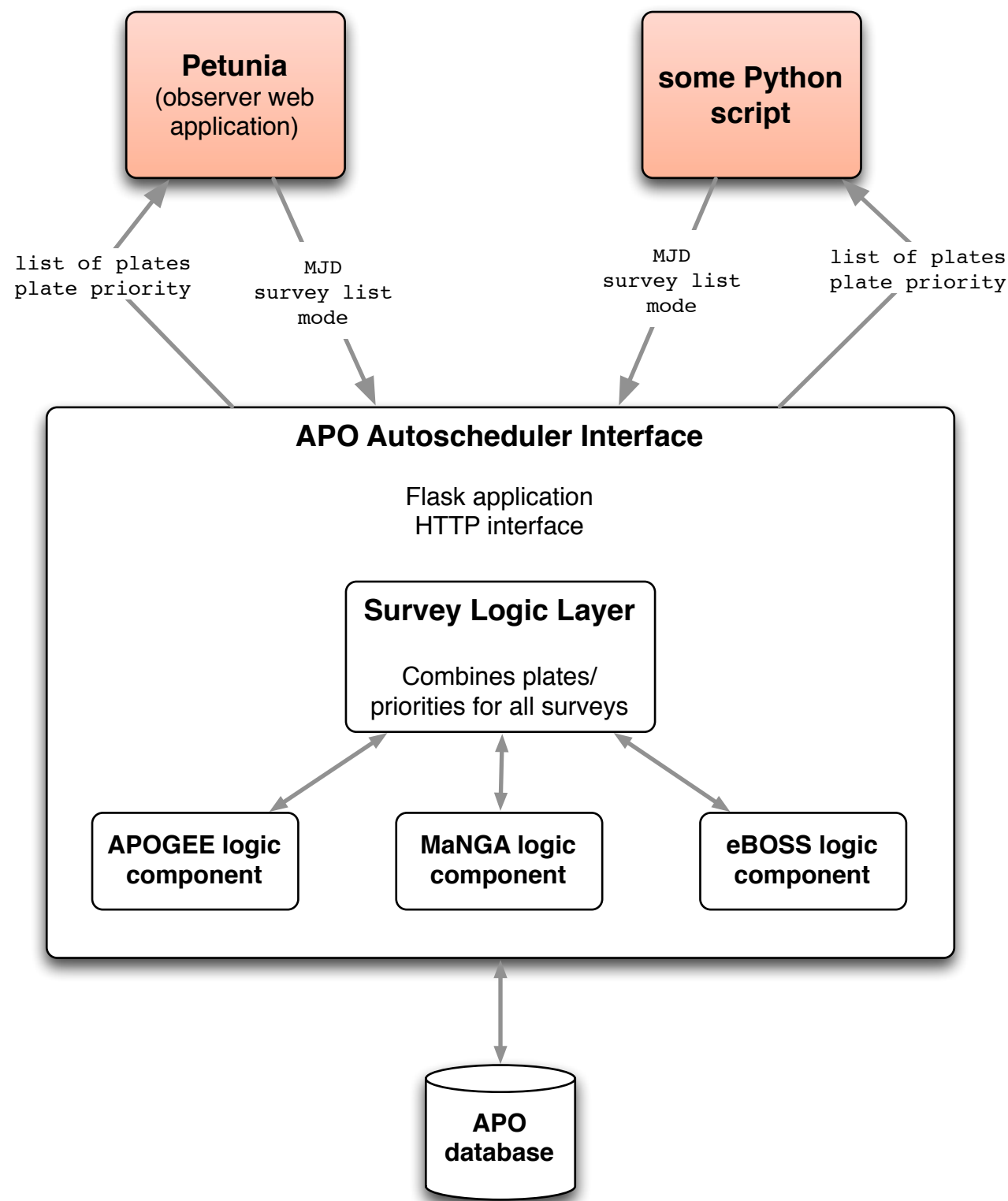
Autoscheduler API

All input & output is in JSON.

Request

• MJD
• list of surveys, default = "all"
• mode = "plugging","observing"

Response : Mode = "plugging"

Returns:
• list of plates plates to plug
• cart/bay assignment
• list of backup plates in priority order

Response : Mode = "observing"

Returns:
• list of plates in order of observation