**README**

Grazioso Salvare Rescue-Dog Dashboard

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**1. Purpose**

Trainers need to shortlist dogs for Water, Mountain/Wilderness, or Disaster/Tracking work.

The dashboard pulls live shelter data from MongoDB and lets them filter, inspect, and map candidates.

**2. Running the Dashboard**

• Open ProjectTwoDashboard.ipynb in Apporto.

• Run all cells; JupyterDash launches in-notebook.

• Use the "Rescue Type" radio buttons to filter.

• Select any row to see its location pin on the map.

**3. Technology Stack**

Python 3.9, JupyterDash, Dash Leaflet, Plotly Express, ipywidgets, PyMongo,

MongoDB Atlas (Apporto VM).

**4. Screenshots**

\*final pages\*

**5. Implementation Highlights**

• CRUD module (animal\_shelter.py) encapsulates DB access.

• Query logic matches the specification’s breed/age/sex criteria.

• Dash callbacks keep table, bar-chart, and map in sync.

• Logo and student ID included per branding requirement.

**6. Challenges & Resolutions**

• Apporto blocked default Plotly renderer → switched to Dash Leaflet for maps.

• Port conflicts → used `mode="inline", port=8060`.

• Authentication errors → corrected to `aacuser / SNHU1234`.

**7. Reproduce / Adapt**

• Update `animal\_shelter.py` host/port if you deploy elsewhere.

• Replace breed arrays in the notebook to fit new rescue profiles.

• Add more charts by copying the `update\_graphs` callback.











