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Graduate Data Analysis documentation

Welcome to the Graduate Applicant Data Analysis Tool documentation!

This tool scrapes data from The Grad Cafe and returns detailed analysis on applicant data.

The tool is executed by running the Flask application module. The Data Loading module is responsible for feeding a PostgreSQL database with over 30,000 historical data points from The Grad Cafe, while the Data Query module analyzes the information within the database. The Database Update module is responsible for updating the database with new data points.

Click on the module documentation pages below to view more information including required envrionmental variables.

A Pytest suite has been developed for testing. After installation of Pytest, testing can be run with the command line prompt "pytest". Marked tests include "web" and "buttons" for webpage testing and "analysis", "db", and "integration" for database and analysis testing.

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Built with Sphinx using a theme provided by Read the Docs.
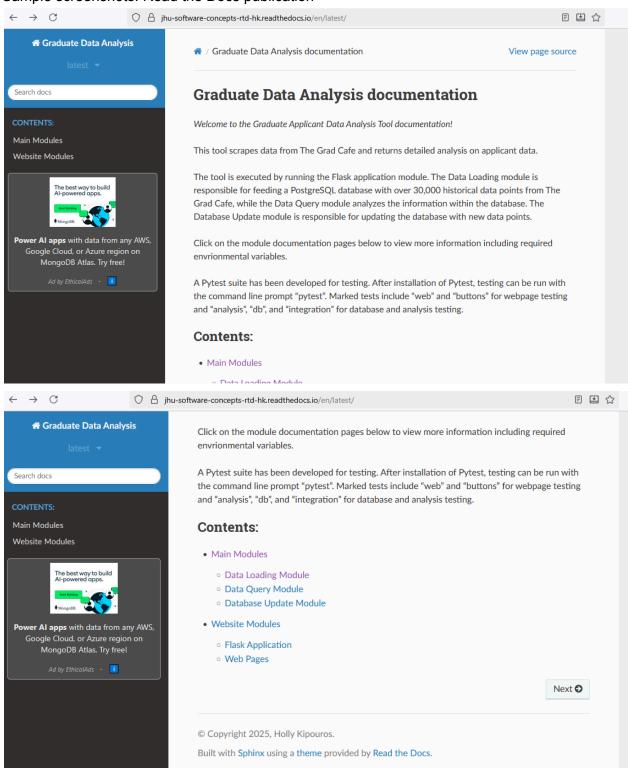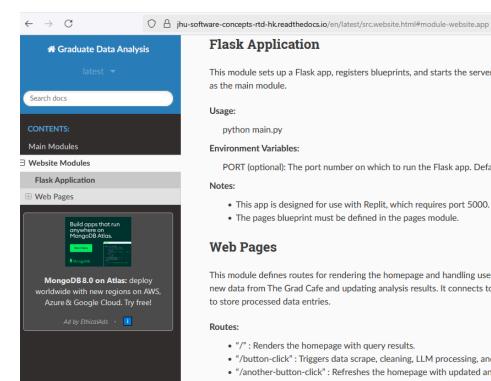
Flask Application

This module sets up a Flask app, registers blueprints, and starts the server. It is intended to be run as the main module.

Usage:

python main.py

Environment Variables:

PORT (optional): The port number on which to run the Flask app. Defaults to 5000.

Notes:

- This app is designed for use with Replit, which requires port 5000.
- The pages blueprint must be defined in the pages module.

Web Pages

This module defines routes for rendering the homepage and handling user actions such as pulling new data from The Grad Cafe and updating analysis results. It connects to a PostgreSQL database to store processed data entries.

Routes:

- "/" : Renders the homepage with query results.
- "/button-click" : Triggers data scrape, cleaning, LLM processing, and DB update.
- "/another-button-click" : Refreshes the homepage with updated analysis.