KATTLE BLUE BOOK

Group 6 Final System

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Kattle Blue Book: A Cattle Pricing Guide for Auction Houses

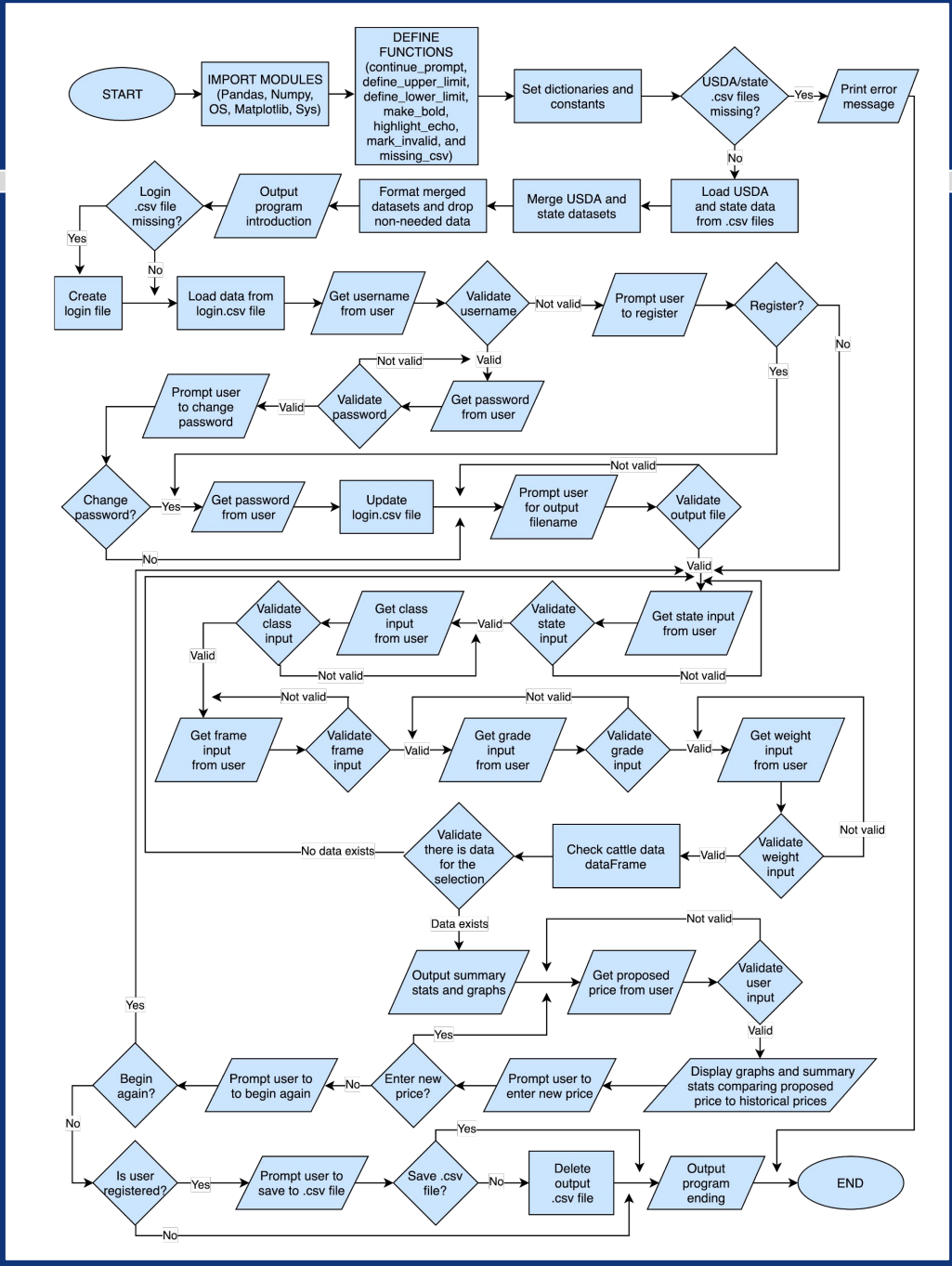
- Inform the decision making of Cattle Auction Houses in the Minimum Price Setting process
    - Entice ranchers to bring their herd to that particular market place
    - Aggregates and reports on historical auction data provided by the USDA
    - Prices are broken down by class, weight, frame, and grade

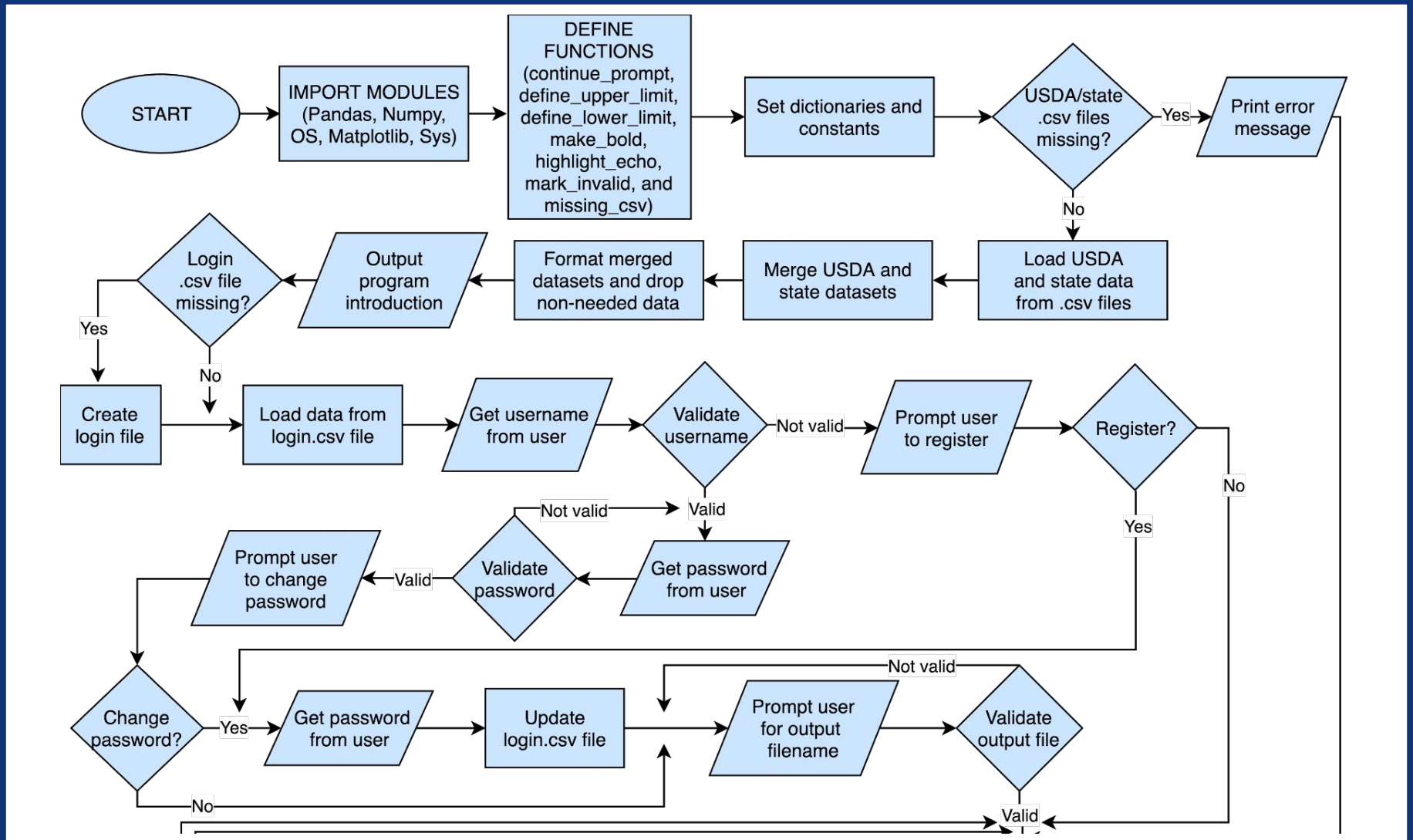
Peer Review Responses

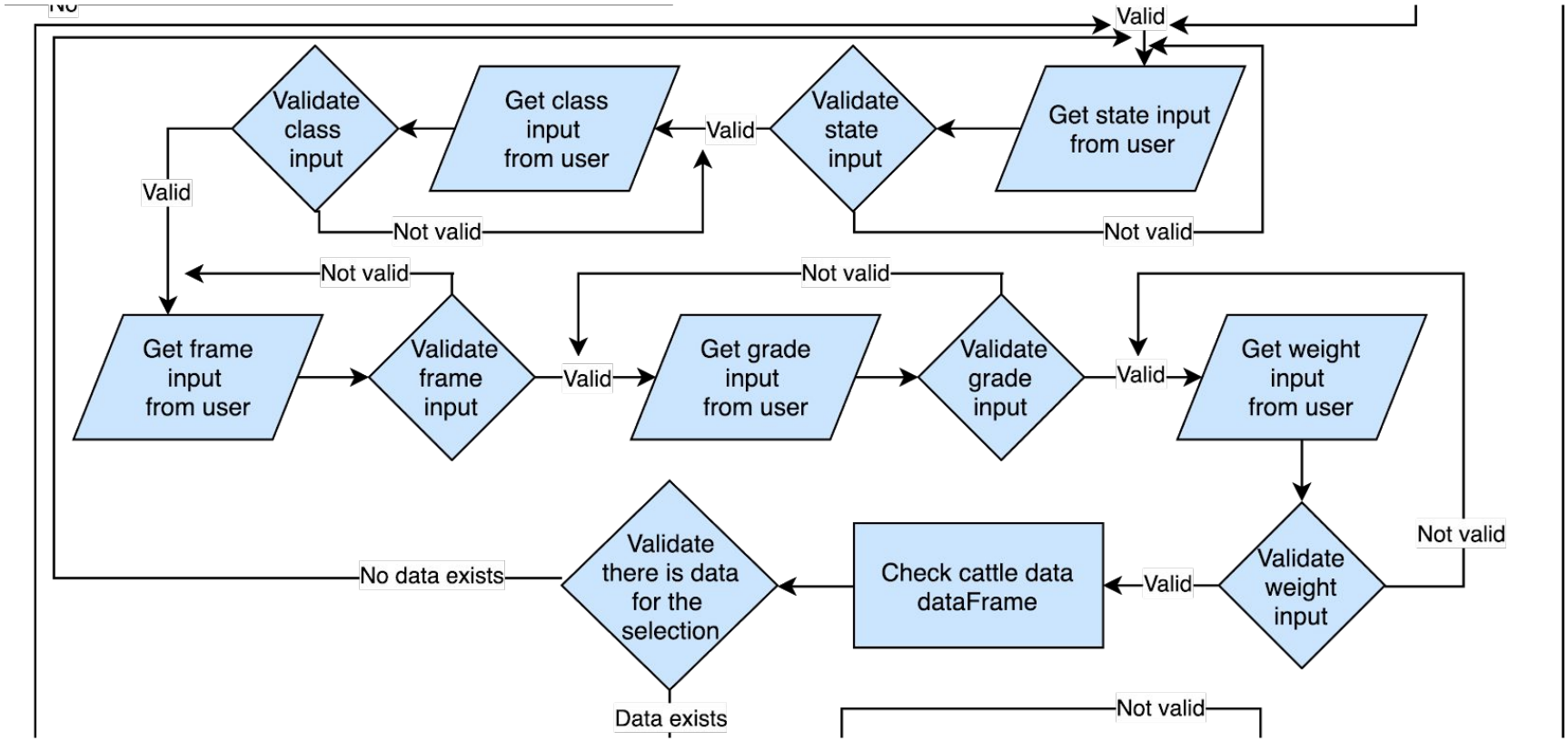
- 44 Total comments
  - 30 General compliments - Thank you :)
  - 15 Presentation suggestions
  - 3 Application Inquiries/Suggestions
- “How will you clean the data within large volumes?”
- “Only user input of price, user able to add or change any existing data?”

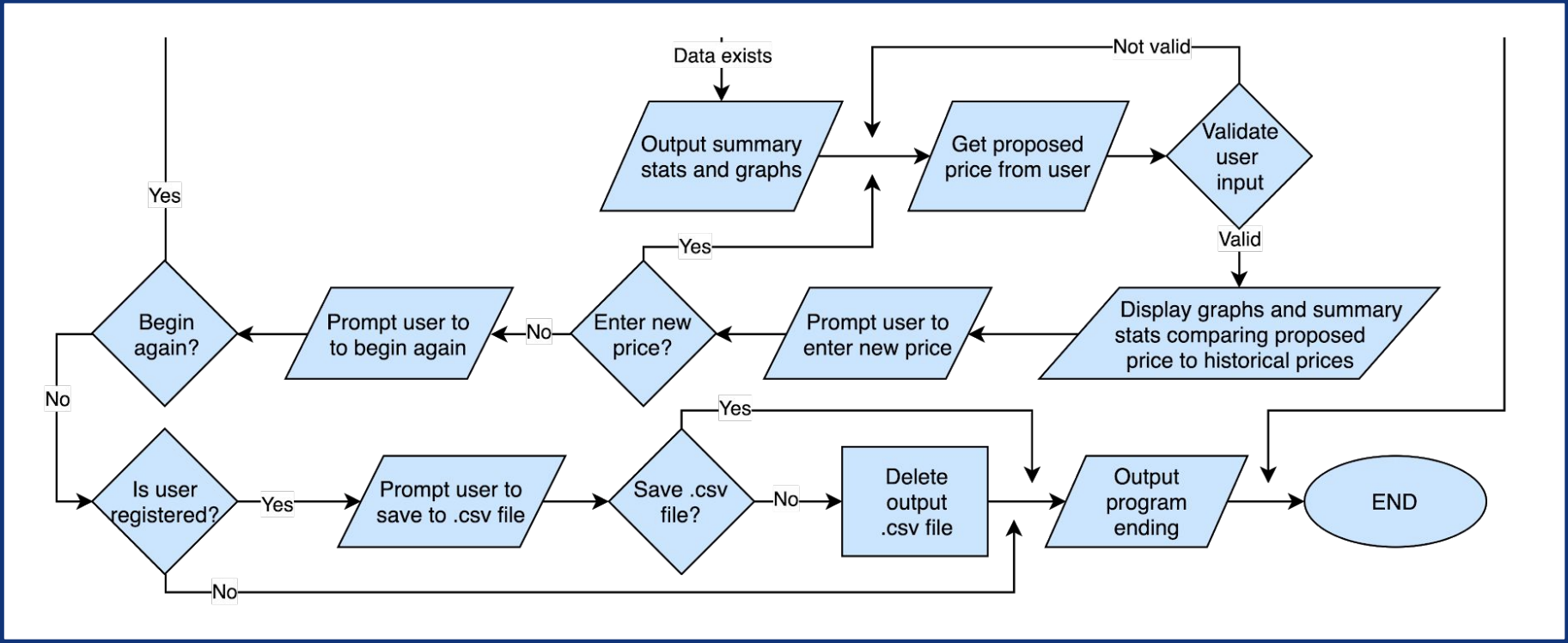
General Application Flow Chart

- Functions
- Dictionary
- Modules
- File CRUD
- Variables and constants
- Scatter plots
- Flow control
- Data computation




START
IMPORT MODULES (Pandas, Numpy, OS, Matplotlib, Sys)
DEFINE FUNCTIONS (continue_prompt, define_upper_limit, define_lower_limit, make_bold, highlight_echo, mark_invalid, and missing_csv)
Set dictionaries and constants
USDA/state .csv files missing?
Yes
Print error message
No
Load USDA and state data from .csv files
Merge USDA and state datasets
Format merged datasets and drop non-needed data
Output program introduction
Login .csv file missing?
Yes
No
Create login file
Load data from login.csv file
Get username from user
Validate username
Not valid
Prompt user to register
Register?
No
Yes
Valid
Not valid
Get password from user
Validate password
Valid
Prompt user to change password
Change password?
Yes
No
Get password from user
Update login.csv file
Prompt user for output filename
Validate output file
Not valid
Valid


Valid
Get state input from user
Validate state input
Valid
Get class input from user
Validate class input
Valid
Not valid
Not valid
Not valid
Get frame input from user
Validate frame input
Valid
Not valid
Get grade input from user
Validate grade input
Valid
Get weight input from user
Validate weight input
Valid
Not valid
Check cattle data dataFrame
Validate there is data for the selection
No data exists
Data exists
Not valid


Data exists
Output summary stats and graphs
Get proposed price from user
Not valid
Validate user input
Valid
Display graphs and summary stats comparing proposed price to historical prices
Prompt user to enter new price
Enter new price?
Yes
No
Prompt user to to begin again
Begin again?
Yes
No
Is user registered?
Yes
Prompt user to save to .csv file
Save .csv file?
Yes
No
Delete output .csv file
No
Output program ending
END

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Group 6 Live Demo

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