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1. Starting the App

- Open the app by running the Python script (main.py inside of Application Folder).
 - Run it in terminal (preferred) or in your IDE of choice.
 - [python3 main.py]
- Once launched, the main screen will display a Welcome Message with an "Enter" button.

2. Uploading Data

- Before generating a schedule, upload the necessary data files

Upload Horse Data

- Click on the **"Upload Horse Data"** button.
- Select a file containing horse information. Supported formats: .csv, .xlsx, or .xls.
 - In our case, we use HorseData.csv inside Testing folder
- A confirmation message will appear, showing a preview of the uploaded data.
- The app will automatically process the horse data.
 - This can be seen in the python terminal if you wish to view it

Upload Rider Data

- Click on the **"Upload Rider Data"** button.
- Select a file containing rider information.
 - In our case, we use RiderData.csv inside Testing folder
- A confirmation message will appear, showing a preview of the uploaded data.
- The app will automatically process the rider data.
 - Again, this can be seen in the python terminal

3. Managing Horses and Riders

- The app allows you to manage horse and rider information directly:

Add a New Horse

- Click **"Add Horse"** to open the Add Horse window.

- Fill in the details:
 - Name
 - Maximum Weight
 - Skill Level (B | N | I | O) or any combination of the four as long as they are separated by a hyphen
 - I.e. B-N or N-I-O
 - Whether it's a jumper (yes/no)
 - Maximum Rides Per Day
 - Leaser (optional)
- Click **"Add Horse"** to save the horse to the system.

Remove a Horse

- Click **"Remove Horse"**
- Type in name of horse you want to remove
- BE CAREFUL
 - There are certainly scenarios in which you eliminate too many horses and can no longer generate a schedule that fits all criteria. Often this happens when you remove the one horse that is the only horse an outlier rider can ride.

Add a New Rider

- Click **"Add Rider"** to open the Add Rider window.
- Fill in the details:
 - Name
 - Weight
 - Skill Level (B | N | I | O) or any combination of the four as long as they are separated by a hyphen
 - I.e. B-N or N-I-O
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- Click **"Add Rider"** to save the rider to the system.

Remove a Rider

- Click **"Remove Rider"** and input the name of the rider you wish to remove. Confirm the action.

4. Adding Lessons

- Click **"Add Lesson"** to schedule a lesson for a rider.
- In the lesson form:
 - Select a rider's name from the dropdown list.
 - Choose a day of the week for the lesson.
 - Select whether it's a jumping or non-jumping lesson.
 - Specify the duration of the lesson (30 or 60 minutes).
 - Set the lesson start time (using the hour, minute, and AM/PM selectors).
- Click **"Add Lesson"** to save the lesson.

5. Generating the Weekly Schedule

- After uploading all necessary data and adding lessons, click **"Generate Schedule"**.
- The app will process the information to assign horses to riders based on availability and skill levels.
- If the schedule generation fails (e.g., due to conflicts), it will retry automatically or display an error.

6. Viewing the Weekly Schedule

- Once the schedule is generated, the app will display it on the screen:
 - Each day of the week is listed.
 - Under each day, the scheduled times, riders, and assigned horses are displayed.
 - Use the scroll bar to view all days and entries.

8. Going Back

- Click the **"Back"** button to return to the main menu or the data upload screen.

9. Closing the App

- Simply close the application window when done.

Link to repository:

<https://github.com/ZDargos/Horse-Lesson-Planner>

