



DonKeWu / Futterwagen2.0



<> Code



Issues



Pull requests



Actions



Projects



Wiki



Secur

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#) or [learn more about diff comparisons](#).



base: main ▾



compare: master ▾



There isn't anything to compare.

main and **master** are entirely different commit histories.

Showing **11 changed files** with **166 additions** and **10 deletions**.

Split

Unified




1 controllers/__init__.py

```
...      @@ -0,0 +1 @@
      1  + from .fuetterung_controller import FütterungController
```



23 controllers/fuetterung_controller.py

```
...      @@ -0,0 +1,23 @@
      1  + from typing import List
      2  + from models import Fütterung, Pferd, Futter
      3  + from datetime import datetime
      4  +
      5  + class FütterungController:
      6  +     def __init__(self):
      7  +         self.fütterungen: List[Fütterung] = []
      8  +
      9  +     def neue_fütterung(self, pferd: Pferd, futter: Futter, menge_kg:
    float, zeipunkt: datetime):
    10  +         # Dummy-Nährwertberechnung
    11  +         naehrwerte = {
    12  +             "Rohprotein": futter.rohprotein * menge_kg,
    13  +             "Rohfaser": futter.rohfaser * menge_kg,
    14  +         }
    15  +         fütterung = Fütterung(
```

```
16 +         pferd=pferd,
17 +         futter=futter,
18 +         menge_kg=menge_kg,
19 +         naehrwerte=naehrwerte,
20 +         zeitpunkt=zeitpunkt
21 +     )
22 +     self.fütterungen.append(fütterung)
23 +     return fütterung
```

▼  1  hardware/__init__.py 

```
...     @@ -0,0 +1 @@
1 + from .sensor_interface import WeightSensorInterface
```

▼ 12  hardware/hx711_sensor.py 

```
...     @@ -0,0 +1,12 @@
1 + from .sensor_interface import WeightSensorInterface
2 +
3 + class HX711Sensor(WeightSensorInterface):
4 +     def __init__(self, data_pin: int, clock_pin: int):
5 +         # Initialisierung der HX711-Hardware (Pseudo-Code)
6 +         self.data_pin = data_pin
7 +         self.clock_pin = clock_pin
8 +
9 +     def read_weight(self) -> float:
10 +         # Hier würdest du die echte Bibliothek ansprechen, z.B.
            hx711python
11 +         # return hx711.get_weight()
12 +         return 2.5 # Dummywert für Beispiel
```

▼ 6  hardware/sensor_interface.py 

```
...     @@ -0,0 +1,6 @@
1 + from abc import ABC, abstractmethod
2 +
3 + class WeightSensorInterface(ABC):
4 +     @abstractmethod
5 +     def read_weight(self) -> float:
6 +         pass
```

▼ 39  main.py 

```
...     @@ -1,16 +1,35 @@
1 - # This is a sample Python script.
1 + import sys
2 + from datetime import datetime
3 + from PyQt5.QtWidgets import QApplication
```

```
4 + from models import Pferd, Heulage
5 + from controllers import FütterungController
6 + from hardware.hx711_sensor import HX711Sensor
7 + from views.main_window import MainWindow
2 8
3 - # Press Umschalt+F10 to execute it or replace it with your code.
4 - # Press Double Shift to search everywhere for classes, files, tool
  windows, actions, and settings.
5 9
10 + def main():
11 +     # 1. Hardware initialisieren
12 +     sensor = HX711Sensor(data_pin=5, clock_pin=6) # GPIO-Pins
    anpassen
6 13
7 - def print_hi(name):
8 -     # Use a breakpoint in the code line below to debug your script.
9 -     print(f'Hi, {name}') # Press Strg+F8 to toggle the breakpoint.
14 +     # 2. UI starten
15 +     app = QApplication(sys.argv)
16 +     window = MainWindow(sensor)
17 +     window.show()
10 18
19 +     # 3. Testdaten laden (optional/nur für Entwicklung)
20 +     if True: # Auf False setzen für Produktivbetrieb
21 +         pferd = Pferd(name="Blitz", gewicht=500, alter=8)
22 +         heulage = Heulage(
23 +             name="Heulage 2024", trockenmasse=60.0, rohprotein=14.0,
                rohfaser=24.0,
24 +             gesamtzucker=8.0, fruktan=4.0, me_pferd=8.0, pcv_xp=7.0,
25 +             herkunft="Hof B", jahrgang=2024, ph_wert=4.5,
                siliergrad="gut"
26 +         )
27 +         controller = FütterungController()
28 +         controller.neue_fütterung(pferd, heulage, 2.5,
                datetime.now())
11 29
12 - # Press the green button in the gutter to run the script.
13 - if __name__ == '__main__':
14 -     print_hi('PyCharm')
30 +     sys.exit(app.exec_())
31 +
32 +
33 + if __name__ == "__main__":
34 +     main()
15 35
16 - # See PyCharm help at https://www.jetbrains.com/help/pycharm/
```



▼ 3 models/__init__.py

... @@ -0,0 +1,3 @@

```
1 + from .pferd import Pferd
2 + from .futter import Futter, Heu, Heulage, PelletFutter, Hafer
3 + from .fuetterung import Fütterung
```

▼ 13  models/fuetterung.py 

```
...      ...      @@ -0,0 +1,13 @@
1 + from dataclasses import dataclass
2 + from typing import Optional, Dict
3 + from datetime import datetime
4 + from .pferd import Pferd
5 + from .futter import Futter
6 +
7 + @dataclass
8 + class Fütterung:
9 +     pferd: Pferd
10 +     futter: Futter
11 +     menge_kg: float
12 +     naehrwerte: Optional[Dict[str, float]] = None
13 +     zeitpunkt: Optional[datetime] = None
```

▼ 33  models/futter.py 

```
...      ...      @@ -0,0 +1,33 @@
1 + from dataclasses import dataclass
2 + from typing import Optional, Dict
3 +
4 + @dataclass
5 + class Futter:
6 +     name: str
7 +     trockenmasse: float
8 +     rohprotein: float
9 +     rohfaser: float
10 +     gesamtzucker: float
11 +     fruktan: float
12 +     me_pferd: float
13 +     pcv_xp: float
14 +     herkunft: Optional[str] = None
15 +     jahrgang: Optional[int] = None
16 +
17 + @dataclass
18 + class Heu(Futter):
19 +     staubarm: Optional[bool] = None
20 +
21 + @dataclass
22 + class Heulage(Futter):
23 +     ph_wert: Optional[float] = None
24 +     siliergrad: Optional[str] = None
25 +
```

```
26 + @dataclass
27 + class PelletFutter(Futter):
28 +     zusatzstoffe: Optional[Dict[str, float]] = None
29 +
30 + @dataclass
31 + class Hafer(Futter):
32 +     sorte: Optional[str] = None
33 +     stärke: Optional[float] = None
```

▼ 9 models/pferd.py

```
...  ...  @@ -0,0 +1,9 @@
      1 + from dataclasses import dataclass
      2 + from typing import Optional
      3 +
      4 + @dataclass
      5 + class Pferd:
      6 +     name: str
      7 +     gewicht: float
      8 +     alter: int
      9 +     notizen: Optional[str] = None
```

▼ 36 views/main_window.py

```
...  ...  @@ -0,0 +1,36 @@
      1 + from PyQt5.QtWidgets import QMainWindow, QLabel, QPushButton,
      2 +   QVBoxLayout, QWidget
      3 +
      4 + class MainWindow(QMainWindow):
      5 +     def __init__(self, sensor):
      6 +         super().__init__()
      7 +         self.sensor = sensor
      8 +
      9 +         self.setWindowTitle("Futterkarre 2.0")
     10 +         self.setFixedSize(1024, 600)
     11 +
     12 +         self.weight_label = QLabel("Gewicht: -- kg")
     13 +         self.refresh_button = QPushButton("Aktualisieren")
     14 +
     15 +         layout = QVBoxLayout()
     16 +         layout.addWidget(self.weight_label)
     17 +         layout.addWidget(self.refresh_button)
     18 +
     19 +         container = QWidget()
     20 +         container.setLayout(layout)
     21 +         self.setCentralWidget(container)
     22 +
     23 +         self.refresh_button.clicked.connect(self.update_weight)
```

```
24 +
25 +     # Automatische Aktualisierung alle 1 Sekunde
26 +     self.timer = QTimer()
27 +     self.timer.timeout.connect(self.update_weight)
28 +     self.timer.start(1000)
29 +
30 +     def update_weight(self):
31 +         try:
32 +             weight = self.sensor.read_weight()
33 +             self.weight_label.setText(f"Gewicht: {weight:.2f} kg")
34 +         except Exception as e:
35 +             self.weight_label.setText("Fehler beim Wiegen!")
36 +             # Hier könntest du ein Logging-Framework nutzen
```