feat: full implementation of cinema_visit with all tests passing #2097

Edit Code Jump to bottom

Open

djoseph-png wants to merge 5 commits into `mate-academy:master` from `djoseph-png:master`

Conversation 44 Commits 5 Checks 1 Files changed 26

djoseph-png commented 4 hours ago

This PR implements the full logic of the py-cinema-visit project, including:

- Implementation of the following classes:
  - `CinemaBar`
  - `CinemaHall`
  - `Customer`
  - `Cleaner`
- Implementation of the main function `cinema_visit`, which orchestrates:
  - Product sales at the bar
  - Movie session in a hall
  - Cleaning of the hall after the movie
- Quality configuration:
  - `pytest.ini` and `tests_simple/` for running tests
  - `.flake8` for linting
  - `.coveragerc` for test coverage
- Tests with 100% coverage in the main modules (`movies.py`, `snacks.py`, `tickets.py`, `utils.py`)
- All official tests (`tests/`) passing successfully ✅

Project ready for review.

djoseph-png added 3 commits 5 hours ago

`Configura flake8, pytest e cobertura de testes` `577e91c`

tests: cobertura completa do utils; configs: flake8, pytest e coverage 95bba28

feat: implementação completa do cinema_visit com todos os testes pass… ··· ✕ 2fa34ff

mateacademy-ai-mentor suggested changes 3 hours ago

View reviewed changes

mateacademy-ai-mentor left a comment

Review Summary

Several critical, blocking issues prevent meeting the task's exact API and checklist requirements.

- app/cinema/bar.py: `sell_product` is an instance method with wrong parameter order. Requirement: a single `@staticmethod` `sell_product(product, customer)` callable as `CinemaBar.sell_product(...)`. Also, extra public methods/attributes are present though the spec says the class should have only this static method.
- app/cinema/hall.py: Constructor stores extra `capacity` and uses `number`; must be `__init__(self, hall_number)` storing ONLY the hall number. `movie_session` must be `movie_session(movie_name, customers, cleaning_staff)`, call `customer.watch_movie(movie_name)` for each customer, and call `cleaning_staff.clean_hall(hall_number)` (do not print a returned value).
- app/people/customer.py: `__init__` has extra `balance` param and the class defines extra methods (`__repr__`, `watch`, `buy_food`). Requirement: store only `name` and `food`, and expose only one method `watch_movie(movie)` that prints the message.
- app/people/cinema_staff.py: Extra method `clean(self, hall)` that returns strings; requirement is a single method `clean_hall(hall_number)` that prints. Also, for strict conformance, use `__init__(self, name)` without a default.
- app/main.py: `cinema_visit` signature order is incorrect (should be `cinema_visit(movie, customers, hall_number, cleaner)`), it instantiates `CinemaBar()` instead of using the static method on the class, and constructs `CinemaHall(number=hall_number)` instead of `CinemaHall(hall_number)`.
- app/__init__.py: Uses a relative import; checklist requires absolute imports. Change to `from app.main import cinema_visit`.

Please address the above to align with the exact API and behavior. Good job on matching several print messages; once the signatures and call patterns are fixed, the solution should meet the requirements.

✨ Please rate this review in the Platform's notification center[1]. I will be grateful for your feedback! ✨

> **Important**
>
> Fix the issues, commit the changes, and then re-request my review using the **`Re-request review` button**[2] in the Reviewers tab.

> **Tip**

> If you have any comments about this review, please leave a message in the Add a comment section below and **mention me with the `@mateacademy-ai-mentor` tag**[3].
> I will read your message during my next review of your pull request. Please do not reply directly to my comments, as that feature is not supported yet.

> **Caution**
>
> Do not close the pull request until the review is complete. Closing it early can lead to unexpected behavior and disrupt the review process.

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app/__init__.py

```
...  ...   @@ -0,0 +1,2 @@
       1  + from .main import cinema_visit  # reexporta a função principal
```

mateacademy-ai-mentor 3 hours ago

This line uses a relative import (`from .main import cinema_visit`). The project checklist requires **only absolute imports** ("Only use absolute imports.") and shows the preferred form `from app.module import Component` . Change this to an absolute import, for example:

```
from app.main import cinema_visit
```

This will make the file comply with the import requirements and still re-export the function as intended.

Reply...

Resolve conversation

app/cinema/bar.py Outdated

Comment on lines 14 to 16

```
14  +     def sell_product(self, customer, product: str) -> None:
15  +         # Texto exato que o teste espera:
16  +         print(f"Cinema bar sold {product} to {customer.name}.")
```

mateacademy-ai-mentor 3 hours ago

Major violation — `sell_product` must be a static method with signature `(product, customer)`

Currently `sell_product` is defined as an instance method: `def sell_product(self, customer, product: str) -> None:` . The task requires a static method with the product first, then customer. Quoted requirement: "This class should have only one static method `sell_product` , that takes `product` - name of the product that customer wants and `customer` - `Customer` instance."

Please change to e.g.:

```
@staticmethod
def sell_product(product, customer):
    print(f"Cinema bar sold {product} to {customer.name}.")
```

so callers can use `CinemaBar.sell_product(product, customer)` as required.

Reply...

Resolve conversation

app/cinema/bar.py Outdated

Comment on lines 1 to 12

```
1  + class CinemaBar:
2  +     def __init__(self):
3  +         self.menu = {}
4  +
5  +     def get_price(self, item: str):
6  +         return self.menu.get(item)
7  +
8  +     def buy(self, item: str, qty: int):
9  +         price = self.get_price(item)
10 +         if price is None:
11 +             return None
12 +         return price * max(qty, 0)
```

mateacademy-ai-mentor 3 hours ago

API surface — extra instance methods/attributes not required by the task

The class defines `__init__`, `self.menu`, `get_price`, and `buy`. The description indicates the class should expose a single static `sell_product` method. Having those extra public methods and instance state may violate the spec's expectation of the minimal API. Consider removing them or making them internal if the assignment expects only the static selling API. Quoted requirement: "This class should have only one static method `sell_product` ..."

Reply...

Resolve conversation

app/cinema/bar.py Outdated

```
13 +
14 +     def sell_product(self, customer, product: str) -> None:
15 +         # Texto exato que o teste espera:
16 +         print(f"Cinema bar sold {product} to {customer.name}.")
```

mateacademy-ai-mentor 3 hours ago

Note — printed message is correct

The printed message matches the exact required text: `Cinema bar sold {product} to {customer.name}.` — keep this exact formatting when you convert the method to `@staticmethod`.

Reply...

Resolve conversation

app/cinema/hall.py Outdated

```
4 + class CinemaHall:
5 +     """Sala de cinema (compatível com os testes)."""
6 +
7 +     def __init__(self, number: int, capacity: int = 100) -> None:
```

mateacademy-ai-mentor 3 hours ago

This constructor definition does not match the required constructor. The task requires: "**init**(self, hall_number) stores ONLY the hall number of the hall in the cinema." You currently accept and store a `capacity` parameter which violates the requirement to store ONLY the hall number. Please change to `def __init__(self, hall_number)` and store only that value.

Reply...

Resolve conversation

12 hidden conversations
Load more...

app/people/cinema_staff.py Outdated

Comment on lines 13 to 15

```
13 + def clean_hall(self, hall_number: int) -> None:
14 +     # exatamente o texto que os testes verificam
15 +     print(f"Cleaner {self.name} is cleaning hall number {hall_number}.")
```

mateacademy-ai-mentor 3 hours ago

Good: `clean_hall` prints the exact required message.

The `clean_hall` method prints: `Cleaner {self.name} is cleaning hall number {hall_number}.` (line 15) — this matches the specification and expected output. Keep this implementation but remove other public helpers so the class only exposes this method.

Reply...

Resolve conversation

app/people/customer.py Outdated

```
... ... @@ -0,0 +1,20 @@
1 + class Customer:
2 +     def __init__(self, name: str, food: str, balance: int = 0):
```

mateacademy-ai-mentor 3 hours ago

Violation — constructor signature includes an extra parameter `balance`.

The task requires: "its `__init__` method takes and stores `name`, `food` - food that customer wants to buy in cinema bar." Your signature is `def __init__(self, name: str, food: str, balance: int = 0):`. Remove the `balance` parameter and store only `name` and `food`. See description: "its `__init__` method takes and stores `name`, `food`."

Reply...

Resolve conversation

app/people/customer.py Outdated

Comment on lines 7 to 8

```
7 + def __repr__(self) -> str:
8 +     return f"Customer(name={self.name!r}, food={self.food!r}, balance={self
```

mateacademy-ai-mentor 3 hours ago

Violation — extra method `__repr__` defined but class should have only `watch_movie` .

The description states: "This class should have only one method `watch_movie` ." Define only `watch_movie` and remove `__repr__` . Keeping extra methods violates the specification.

Reply...

Resolve conversation

app/people/customer.py Outdated

Comment on lines 10 to 11

```
10 + def watch(self, movie_name: str) -> None:
11 +     print(f'{self.name} is watching "{movie_name}".')
```

mateacademy-ai-mentor 3 hours ago

Violation — helper method `watch` is extra and not allowed by the spec.

You have `def watch(self, movie_name: str) -> None:` which prints the watching message. The task expects a single method named `watch_movie(movie)` . Remove this helper and implement the print inside `watch_movie` directly to comply with the requirement. See: "This class should have only one method `watch_movie` ."

Reply...

Resolve conversation

app/people/customer.py Outdated

Comment on lines 18 to 20

```
18 +     def buy_food(self, bar) -> None:
19 +         # delega a venda para o bar
20 +         bar.sell_product(customer=self, product=self.food)
```

mateacademy-ai-mentor 3 hours ago

Violation — `buy_food` helper must be removed (class should have only `watch_movie`).

`def buy_food(self, bar) -> None:` delegates to `bar.sell_product(...)`. The task requires selling to be orchestrated via CinemaBar in `main.py` and the Customer class must only have `watch_movie`. Remove `buy_food` so the class exposes only the required API.

Reply...

Resolve conversation

`chore: remove unused Optional import (flake8 clean)` `30ec905`

mateacademy-ai-mentor suggested changes 3 hours ago

View reviewed changes

mateacademy-ai-mentor left a comment

Review Summary

I'm requesting changes because several core requirements are not met and CI is blocked before tests run. These are critical blockers that prevent the task from completing as specified.

Critical issues to fix:

- app/**init**.py: Uses a relative import. Replace `.main` with an absolute import: `from app.main import cinema_visit` (checklist: absolute imports only).
- app/cinema/bar.py: CinemaBar must expose exactly one static method `sell_product(product, customer)` and nothing else. Remove `__init__`, `menu`, `get_price`, and `buy`. Change `sell_product` to `@staticmethod` and reorder parameters to `(product, customer)`. Keep the exact print: `Cinema bar sold {product} to {customer.name}.`
- app/cinema/hall.py: Store only the hall number in `__init__` (remove `capacity`). Rename parameter to `cleaning_staff` so signature is `movie_session(self, movie_name, customers, cleaning_staff)`. In the loop, call each customer's `watch_movie(movie=movie_name)` instead of printing directly. Finish by calling `cleaning_staff.clean_hall(hall_number=self.number)` (do not print its return).

- app/main.py: Change function signature to `cinema_visit(movie, customers, hall_number, cleaner)`. Do not instantiate CinemaBar; call `CinemaBar.sell_product(product=customer.food, customer=customer)` on the class. Create objects in the checklist order: Customer instances → Cleaner → CinemaHall. Call `hall.movie_session(movie_name=movie, customers=customer_objs, cleaning_staff=cleaner_obj)` using named args.
- app/people/cinema_staff.py: Remove the extra public method `clean(self, hall)`. The class should expose exactly one method `clean_hall(hall_number)` that prints the required message.
- app/people/customer.py: Constructor must be `__init__(name, food)` only; remove `balance`. The class should expose exactly one public method `watch_movie(movie)` that prints `{name} is watching "{movie}".` Remove other public methods (`__repr__` , `watch` , `buy_food`).
- Lint blockers (flake8): Add missing type annotations (including `-> None` for `__init__`), switch to single-quoted strings where required, rename short/ambiguous variables (e.g., `c` → `customer`), and remove trailing whitespace so CI can proceed to tests.

Minor note: Your print messages generally match the expected text; once the APIs and invocation order/names are corrected, the flow should align well. Please address the above items; afterwards, CI should pass linting and the implementation will meet the exact spec. Nice progress so far—tightening these details will get you across the finish line.

✨ Please rate this review in the Platform's notification center[1]. I will be grateful for your feedback! ✨

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app/__init__.py

```
...  ...  @@ -0,0 +1,2 @@
     1  + from .main import cinema_visit  # reexporta a função principal
```

mateacademy-ai-mentor 3 hours ago

This violates checklist item #2: "Only use absolute imports." The file uses a relative import `from .main import cinema_visit`. Please change it to an absolute import, for example: `from app.main import cinema_visit`. See the checklist examples for the correct form.

Reply...

Resolve conversation

app/cinema/bar.py Outdated

Comment on lines 1 to 3

```
1  + class CinemaBar:
2  +     def __init__(self):
3  +         self.menu = {}
```

mateacademy-ai-mentor 3 hours ago

This file must implement a class that exposes exactly one static method `sell_product(product, customer)` as described in the task. The current class defines an `__init__` and stores `self.menu`, which violates the requirement "This class should have only one static method `sell_product` …". Please remove instance state and extra methods so the class contains only the required static method.

Reply...

Resolve conversation

app/cinema/bar.py Outdated

Comment on lines 5 to 6

```
5  +     def get_price(self, item: str):
6  +         return self.menu.get(item)
```

mateacademy-ai-mentor 3 hours ago

This `get_price` helper is an extra method; the task description requires CinemaBar to have only one static method `sell_product`. Remove `get_price` from this class (or move it elsewhere) to satisfy the requirement.

Reply...

Resolve conversation

app/cinema/bar.py Outdated

Comment on lines 8 to 12

```
8  +    def buy(self, item: str, qty: int):
9  +        price = self.get_price(item)
10 +        if price is None:
11 +            return None
12 +        return price * max(qty, 0)
```

mateacademy-ai-mentor 3 hours ago

This `buy` method is another extra method beyond the single required static method. The task explicitly states the class should have only one static method `sell_product`. Remove this method to comply.

Reply...

Resolve conversation

app/cinema/bar.py Outdated

```
11 +            return None
12 +        return price * max(qty, 0)
13 +
14 +    def sell_product(self, customer, product: str) -> None:
```

mateacademy-ai-mentor 3 hours ago

The `sell_product` method is currently defined as an instance method with signature `sell_product(self, customer, product: str)`. The description requires a static method with signature `sell_product(product, customer)` (product first, then customer) and callable on the class without instantiation. Change to a `@staticmethod` and reorder parameters accordingly.

Reply...

Resolve conversation

10 hidden conversations
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app/people/cinema_staff.py Outdated

Comment on lines 6 to 11

```
+     def clean(self, hall) -> str:
+         number = getattr(hall, "number", None)
+         if number is not None:
+             return f"Cleaner {self.name} is cleaning hall number {number}."
+         hall_label = getattr(hall, "name", "hall")
+         return f"Cleaner {self.name} is cleaning {hall_label}."
```

mateacademy-ai-mentor 3 hours ago

This class defines an extra method `clean(self, hall)` in addition to the required `clean_hall(hall_number)` method. The task specifies: "Provide exactly one method `clean_hall(hall_number)` that prints: 'Cleaner {name} is cleaning hall number {hall_number}.'" Please remove the extra `clean` method or move its logic elsewhere so the class exposes only `clean_hall`.

Reply...

Resolve conversation

app/people/customer.py Outdated

```
@@ -0,0 +1,21 @@
+ from __future__ import annotations
+
```

mateacademy-ai-mentor 3 hours ago

This violates the description requirement: "Define a class Customer with **init**(name, food) that stores name and food." The current constructor has an extra parameter `balance` and stores `self.balance`. Remove the extra parameter and stored attribute so only `name` and `food` are accepted and stored.

Reply...

Resolve conversation

app/people/customer.py Outdated

Comment on lines 7 to 11

```
7  +    """Representa um cliente do cinema."""
8  +
9  +    def __init__(self: 'Customer', name: str, food: str, balance: int = 0) -> N
10 +        self.name: str = name
11 +        self.balance: int = balance
```

mateacademy-ai-mentor 3 hours ago

This violates the description requirement: "Provide exactly one method watch_movie(movie) that prints: '{name} is watching "{movie}".'" The class currently defines additional public methods `__repr__` and `watch`. Remove these extra methods so the class exposes only `watch_movie`.

Reply...

Resolve conversation

app/people/customer.py Outdated

Comment on lines 18 to 20

```
18 +        self.watch(movie_name)
19 +
20 +    def buy_food(self: 'Customer', cinema_bar: CinemaBar, product: str) -> None
```

mateacademy-ai-mentor 3 hours ago

This also violates the "exactly one method" requirement because `buy_food` is an extra public helper. Remove `buy_food` (or make it private) to comply with the spec. If you keep it, ensure it uses the bar API exactly as required (see note).

Reply...

Resolve conversation

app/people/customer.py Outdated

```
17 +    def watch_movie(self: 'Customer', movie_name: str) -> None:
```

```
18 +         self.watch(movie_name)
19 +
20 +     def buy_food(self: 'Customer', cinema_bar: CinemaBar, product: str) -> None
```

mateacademy-ai-mentor 3 hours ago

If you keep any helper that calls the bar, ensure the call matches the required bar API. The task expects `CinemaBar.sell_product(product, customer)` (called on the class). The current call here uses reversed named args `customer=self, product=self.food` and an instance-oriented style. Update or remove accordingly.

Reply...

Resolve conversation

style: ajusta tipagens, quebras de linha e corrige warnings do flake8 0b0b4a9

Reviewers

1 more reviewer

mateacademy-ai-mentor

Still in progress? Convert to draft

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

2 participants

- [x] Allow edits by maintainers