

T3: First Iteration

The Snake Squad:

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Part 1:

<https://github.com/ki-cooley/4156TeamProject>

Part 3:

To run the code, we used the built-in Django command: **python manage.py runserver**
To test the code, we used: **python manage.py test**

Part 2:

User stories we implemented:

1. As a college student who is preparing for finals, I want to manage my time so that I can study more efficiently and more thoroughly. -- implemented

My condition of satisfactions:





- a. keep tracks of how long I have been study and schedules break time wisely over the final week
- b. I should be able to review how much I have done

Acceptance Test for user story 1:

- 1.
 - a. When the user begins a timed session, the timer should start and display the amount of time left in real time. Otherwise, the test should fail. When a study session ends the user should be notified and the study session should be saved. Otherwise, the test should fail.

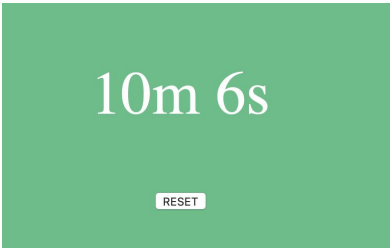
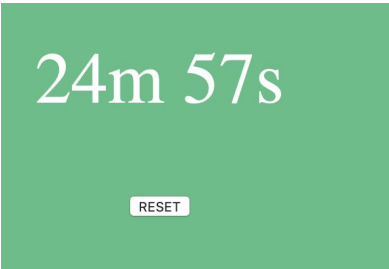
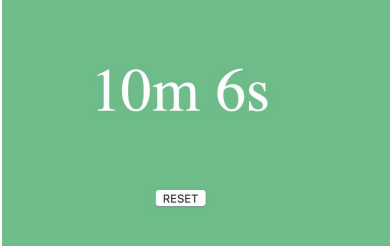
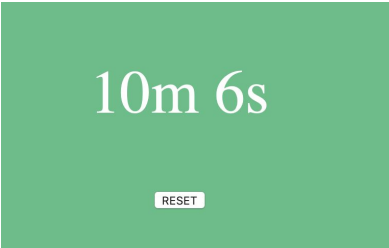
- b. If a user wants to reset the timer, they can click on the reset button and the timer should start again from the top. Test passes if the timer starts at 25 minutes again. It fails if it goes back to the previous time.
- c. A user should be able to skip a pomodoro period and go to the break session. The test passes if the break button is clicked, and it fails if the timer doesn't redirect to the break view.

a)

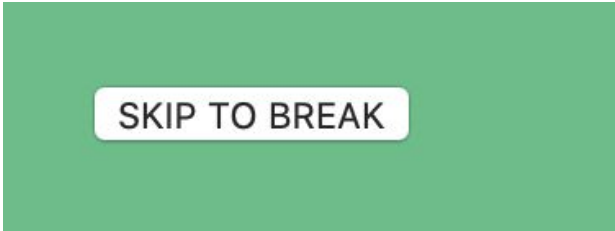
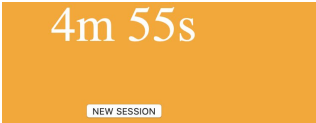


input	GIVEN	WHEN	THEN
good	Start button is clicked 	User wants to start timer	Timer displays countdown 
bad	Start button is NOT clicked, and the background is clicked instead 	User wants to start timer	Timer doesn't displays countdown 

b)

GIVEN	WHEN	THEN
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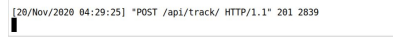
<p>Start button is clicked</p> 	<p>User wants to restart timer</p>	
<p>Start button is not clicked, and the background is clicked instead</p> 	<p>User wants to restart timer</p>	

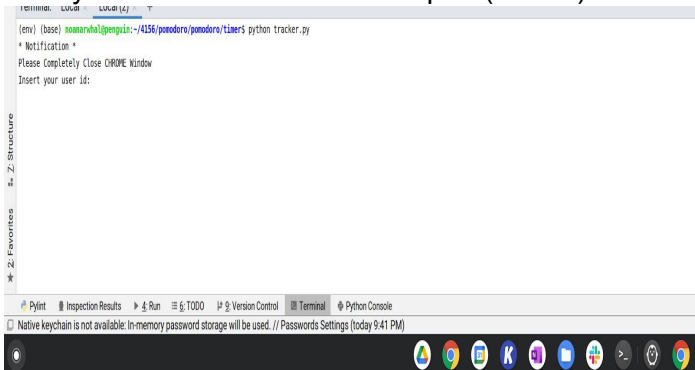
c)

input	GIVEN	WHEN	THEN
good	<p>Break button is clicked</p> 	<p>User wants to skip to the break timer</p>	<p>Timer displays countdown: the 5 minute break timer starts</p> 
bad	<p>Break button is NOT clicked, and the background is clicked instead</p> 	<p>User wants to skip to the break timer</p>	<p>Timer doesn't displays countdown: session continues</p> 

- As a college student I want to be able to review my history and see how I am spending my time online.

My condition of satisfactions:

input	GIVEN	WHEN	THEN
good	User runs the local script when the browser is closed, and the script asks for their user id. The post request is sent and the body of the request is printed:	User wants to send their chrome browsing history to the web app	The server shows that the data was received successfully, and the browsing history was saved to the database:
			

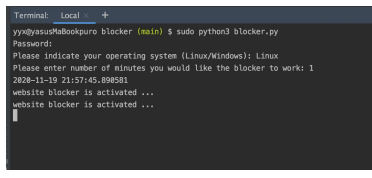
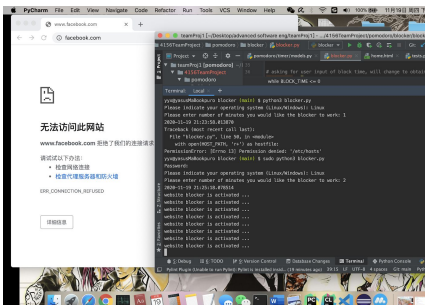
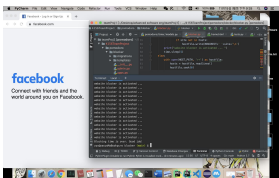
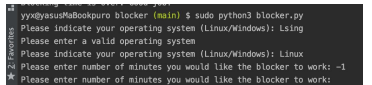
bad	<p>User attempts to run the local script to get browser history while the browser is still open (invalid):</p> 	User wants to send their chrome browsing history to the web app	Script displays an error message and tells user to close their browser first
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If I am able to retrieve information about the websites I visit, the test should pass. Otherwise, it should fail.

- As a father of a young child, I want to minimize the chances of my child being exposed to some harmful/inappropriate websites which may cause him to have bad habits before he can be responsible for himself, so that I want to try my best to block such websites when he is using the computer.

My condition of satisfactions: -- implemented

I want to block the harmful websites during my child's daily usage of the computer (i.e. use the productive interval of the timer to cover my child's daily usage can satisfy this condition)

Input with sudo permission	Website blocker activation	During blocked time	After blocked time
Sudo with correct system indicated and valid block time	 <p>Print: website blocker is activated ...</p>	 <p>when trying to access a blocked website</p>	 <p>Blocked websites can now be accessed</p>
Either one is incorrect	 <p>Prompt user to input valid info</p>	blocked and unblocked websites can be accessed if the blocker is not started properly	All websites can be accessed

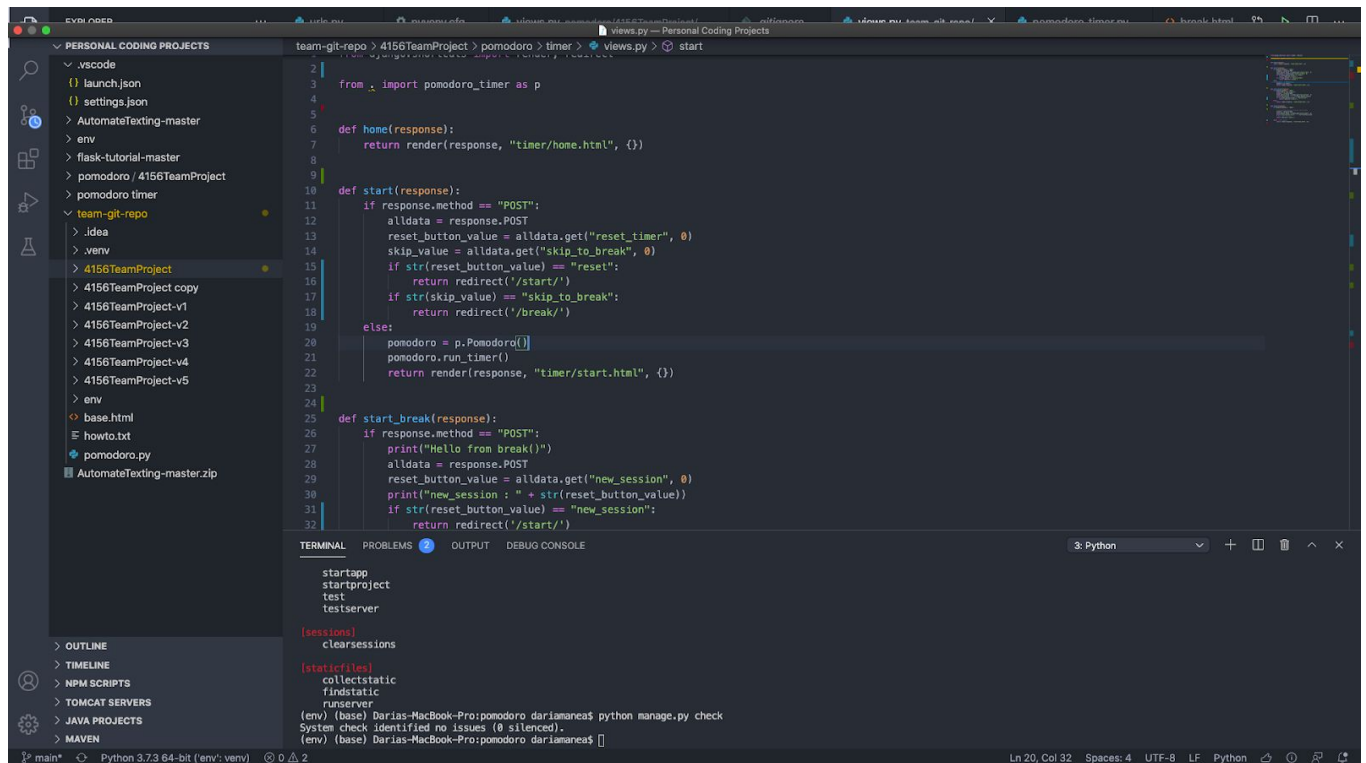
Part 3: Unittest is being used

<https://github.com/ki-cooley/4156TeamProject/blob/main/pomodoro/timer/tests.py>

Part 4: Pylint and Django check

We couldn't generate a report so we're including screenshots.
We checked bugs with Django check

Result: In the terminal, it's printed: System check identified no issues.



```
team-git-repo > 4156TeamProject > pomodoro > timer > views.py - Personal Coding Projects
2
3 from . import pomodoro_timer as p
4
5
6 def home(response):
7     return render(response, "timer/home.html", {})
8
9
10 def start(response):
11     if response.method == "POST":
12         alldata = response.POST
13         reset_button_value = alldata.get("reset_timer", 0)
14         skip_value = alldata.get("skip_to_break", 0)
15         if str(reset_button_value) == "reset":
16             return redirect('/start/')
17         if str(skip_value) == "skip_to_break":
18             return redirect('/break/')
19     else:
20         pomodoro = p.Pomodoro()
21         pomodoro.run_timer()
22         return render(response, "timer/start.html", {})
23
24
25 def start_break(response):
26     if response.method == "POST":
27         print("Hello from break()")
28         alldata = response.POST
29         reset_button_value = alldata.get("new_session", 0)
30         print("new_session : " + str(reset_button_value))
31         if str(reset_button_value) == "new_session":
32             return redirect('/start/')
33
```

```
startapp
startproject
test
testserver

(sessions)
clearsessions

(staticfiles)
collectstatic
findstatic
runserver

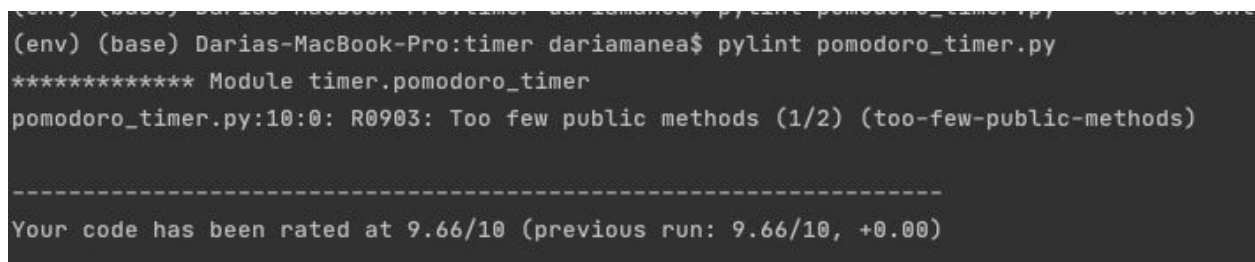
(env) (base) Darias-MacBook-Pro:~$ python manage.py check
System check identified no issues (0 silenced).
```

Also, we used **Pylint**. This worked as both a style checker and bug finder.

We had no errors or warnings generated, but we had a few refactoring suggestions. We were able to get this:

** There is a refactoring suggestion that mentions my code has too few public methods.

However, the framework of Django works mainly this way, so complying to this wouldn't make sense for our structure.



```
(env) (base) Darias-MacBook-Pro:timer dariaamanea$ pylint pomodoro_timer.py
***** Module timer.pomodoro_timer
pomodoro_timer.py:10:0: R0903: Too few public methods (1/2) (too-few-public-methods)

-----
Your code has been rated at 9.66/10 (previous run: 9.66/10, +0.00)
```

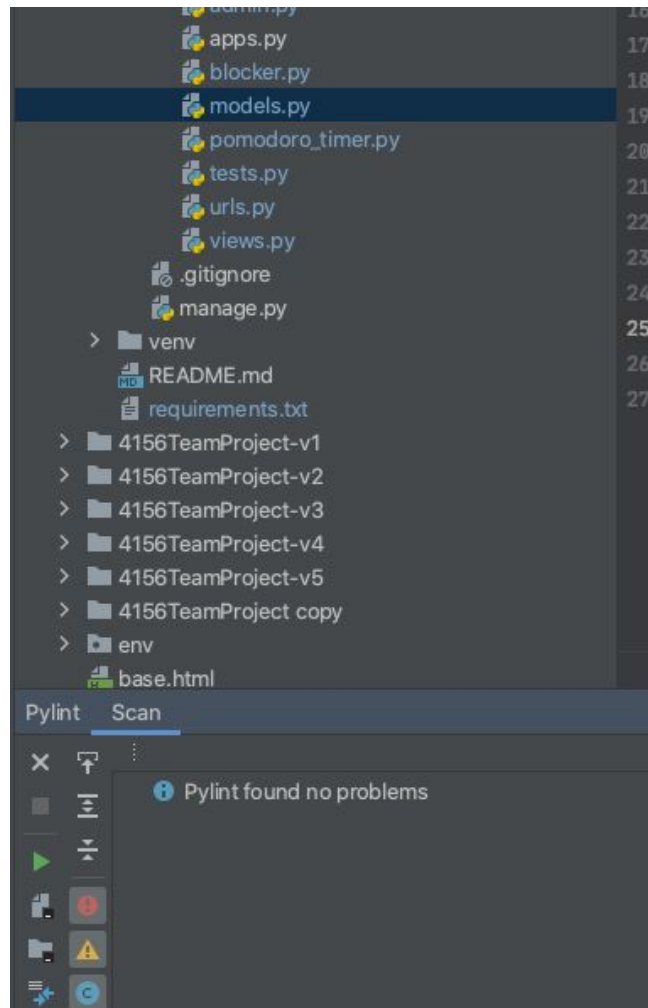


```
(env) (base) Darias-MacBook-Pro:timer dariaamanea$ pylint models.py

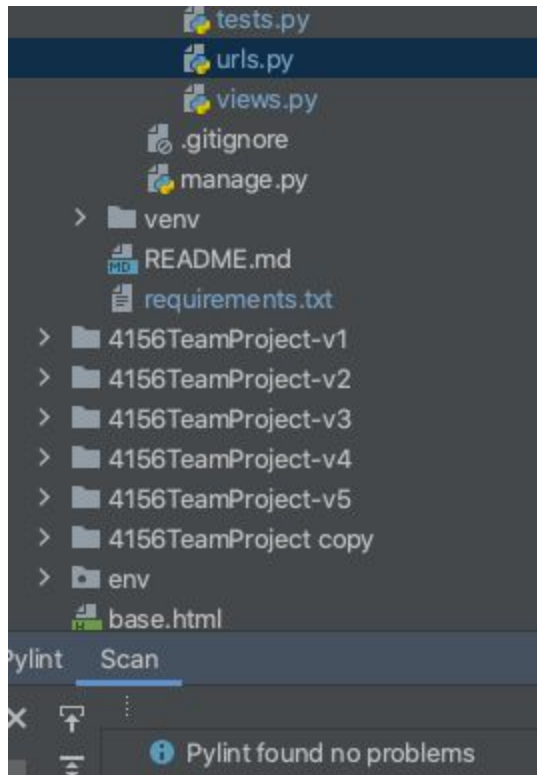
-----
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)
```

```
yyx@yasmusMaBookpuro blocker (main) $ pylint blocker.py
```

```
-----  
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)
```



Models.py has no issues found
The rest of the files generated no issues.



** There is a refactoring suggestion, because an if statement redirects to a new endpoint, and another renders an html response. This makes sense for the given function since each type of input would need to redirect a page to a new endpoint or show an html file.

```
(env) (base) Darlas-MacBook-Pro:timer dariamanea$ pylint views
***** Module views
views.py:3:0: E0402: Attempted relative import beyond top-level package (relative-beyond-top-level)
views.py:11:0: R1710: Either all return statements in a function should return an expression, or none of them should. (inconsistent-return-statements)
views.py:27:0: R1710: Either all return statements in a function should return an expression, or none of them should. (inconsistent-return-statements)

Your code has been rated at 7.81/10
```

Pylint for login/logout functionalities

For the error report of forms.py, I have to keep my class this way otherwise I cannot fulfill the functionality of register.


```
(base) C:\Users\wzy\Desktop\Yifei_wang\semester9\advanced_software\group_project\4156TeamProject\pomodoro>pylint register/views.py
```

```
-----  
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)
```

```
(base) C:\Users\wzy\Desktop\Yifei_wang\semester9\advanced_software\group_project\4156TeamProject\pomodoro>pylint register/tests.py
```

```
(base) C:\Users\wzy\Desktop\Yifei_wang\semester9\advanced_software\group_project\4156TeamProject\pomodoro>pylint register/models.py
```

```
(base) C:\Users\wzy\Desktop\Yifei_wang\semester9\advanced_software\group_project\4156TeamProject\pomodoro>pylint register/forms.py
```

```
***** Module register.forms
```

```
register\forms.py:18:4: R0903: Too few public methods (0/2) (too-few-public-methods)
```

```
-----  
Your code has been rated at 9.00/10 (previous run: 9.23/10, -0.23)
```

```
(base) C:\Users\wzy\Desktop\Yifei_wang\semester9\advanced_software\group_project\4156TeamProject\pomodoro>pylint register/apps.py
```

```
-----  
Your code has been rated at 10.00/10 (previous run: 10.00/10, +0.00)
```

```
(base) C:\Users\wzy\Desktop\Yifei_wang\semester9\advanced_software\group_project\4156TeamProject\pomodoro>pylint register/admin.py
```

```
(base) C:\Users\wzy\Desktop\Yifei_wang\semester9\advanced_software\group_project\4156TeamProject\pomodoro>pylint register/__init__.py
```