

# Hobby (Tracker) Serotonin Generator

Milestone 3

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Team: Python2

Session: Afternoon (Section: 100)

# Original Milestone 3 Goals

- Types of Sprites/Sprite Logic
- Days of the Week associated with Chart
- Various Hobbies work with Charts
- Finished User Hobby Page

# Accomplished Tasks for Milestone 3

- Multiple Dynamic Charts on a Page
- Basic Sprite Implementation
- Better and More Appealing Format for the Login Page, Main Page, and Chart Page
- Improved Database functionality

# Tool Chain

- HTML/CSS
- Javascript
  - Chart.js
  - Pop-up Window with Forms
  - Sprite Logic
- Python
- Django
- Bootstrap 4
  - Crispy Forms
- Gifs (for Sprites)
- SQLite3
- Ubuntu/WSL
- GitHub
- Visual Studio Code

Prototype

# Static Analysis

pylint-django

# views.py

This runs static analysis on all our 4 functions in views.py and one class HobbyChatView()

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

1: wsl

```
jgilbert@DESKTOP-KU885SJ: /mnt/c/Python-Hobby-Tracker/hobbytracker/myapp$ pylint --load-plugins pylint_django views.py
```

```
***** Module views
```

```
views.py:95:0: C0305: Trailing newlines (trailing-newlines)
views.py:1:0: E5110: Django was not configured. For more information runpylint --load-plugins=pylint_django --help-msg=django-not-configured (django-not-configured)
views.py:11:0: E0402: Attempted relative import beyond top-level package (relative-beyond-top-level)
views.py:12:0: W0404: Reimport 'redirect' (imported line 8) (reimported)
views.py:15:0: E0402: Attempted relative import beyond top-level package (relative-beyond-top-level)
views.py:16:0: E5142: User model imported from django.contrib.auth.models (imported-auth-user)
views.py:18:0: C0116: Missing function or method docstring (missing-function-docstring)
views.py:30:0: C0116: Missing function or method docstring (missing-function-docstring)
views.py:47:4: C0103: Variable name "userHobbies" doesn't conform to snake_case naming style (invalid-name)
views.py:51:0: C0103: Function name "baseUrl" doesn't conform to snake_case naming style (invalid-name)
views.py:51:0: C0116: Missing function or method docstring (missing-function-docstring)
views.py:51:12: W0613: Unused argument 'response' (unused-argument)
views.py:54:0: C0115: Missing class docstring (missing-class-docstring)
views.py:63:12: C0103: Variable name "t" doesn't conform to snake_case naming style (invalid-name)
views.py:66:12: C0103: Variable name "t" doesn't conform to snake_case naming style (invalid-name)
views.py:9:0: W0611: Unused HttpResponse imported from django.http (unused-import)
views.py:10:0: W0611: Unused settings imported from django.conf (unused-import)
views.py:13:0: W0611: Unused generic imported from django.views (unused-import)
views.py:12:0: C0411: third party import "from django.shortcuts import redirect" should be placed before "from .forms import NewUserForm, NewHobbyForm" (wrong-import-order)
views.py:13:0: C0411: third party import "from django.views.generic import generic" should be placed before "from .forms import NewUserForm, NewHobbyForm" (wrong-import-order)
views.py:14:0: C0411: third party import "from django.views.generic import TemplateView" should be placed before "from .forms import NewUserForm, NewHobbyForm" (wrong-import-order)
views.py:16:0: C0411: third party import "from django.contrib.auth.models import User" should be placed before "from .forms import NewUserForm, NewHobbyForm" (wrong-import-order)
```

```
-----
Your code has been rated at 3.21/10 (previous run: 3.21/10, +0.00)
```

```
jgilbert@DESKTOP-KU885SJ: /mnt/c/Python-Hobby-Tracker/hobbytracker/myapp$
```

# models.py

This runs Static Analysis against all of our 3 classes in models.py

```
jgilbert@DESKTOP-KU885SJ:/mnt/c/Python-Hobby-Tracker/hobbytracker/myapp$ pylint --load-plugins pylint_django models.py
***** Module models
models.py:40:0: C0305: Trailing newlines (trailing-newlines)
models.py:1:0: C0114: Missing module docstring (missing-module-docstring)
models.py:1:0: E5110: Django was not configured. For more information runpylint --load-plugins=pylint_django --help-msg=django-not-configured (django-not-configured)
models.py:8:0: E5142: User model imported from django.contrib.auth.models (imported-auth-user)
models.py:10:0: C0115: Missing class docstring (missing-class-docstring)
models.py:19:0: C0115: Missing class docstring (missing-class-docstring)
models.py:33:0: C0115: Missing class docstring (missing-class-docstring)
models.py:6:0: W0611: Unused forms imported from django (unused-import)
models.py:7:0: W0611: Unused post_save imported from django.db.models.signals (unused-import)

-----
Your code has been rated at 1.50/10

jgilbert@DESKTOP-KU885SJ:/mnt/c/Python-Hobby-Tracker/hobbytracker/myapp$
```



# Unit Testing

`python3 manage.py test`

# Class Hobby

```
1 from django.test import TestCase
2 from myapp.models import Hobby, Sprite
3 from django.db import models
4 from django.contrib.auth.models import User
5
6 class BasicTest(TestCase):
7     def test_fields(self):
8         sprite = Sprite.objects.create(spriteName = "alien")
9         user = User.objects.create(username = "JohnnyGilbert57")
10        hobby = Hobby()
11        hobby.hobbyUser = user
12        hobby.spriteId = sprite
13        hobby.name = "WorkOut"
14        hobby.timeLimit = 3
15        hobby.save()
16        record = Hobby.objects.get(pk=1)
17        self.assertEqual(record, hobby)
18
```

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

```
-----Ran 1 test in 0.002s

FAILED (errors=1)
Destroying test database for alias 'default'...
jgilbert@DESKTOP-KU885SJ:/mnt/c/Python-Hobby-Tracker/hobbytracker$ ^C
jgilbert@DESKTOP-KU885SJ:/mnt/c/Python-Hobby-Tracker/hobbytracker$ python3 manage.py test
Creating test database for alias 'default'...
System check identified no issues (0 silenced).
.
-----Ran 1 test in 0.008s

OK
Destroying test database for alias 'default'...
jgilbert@DESKTOP-KU885SJ:/mnt/c/Python-Hobby-Tracker/hobbytracker$ []
```

# Class Sprite

```
18 class SpriteTest(TestCase):
19     def test_fields(self):
20         sprite = Sprite()
21         sprite.spriteName = "alien"
22         sprite.imageName = "alienImage"
23         sprite.save()
24         record = Sprite.objects.get(pk=1)
25         self.assertEqual(record, sprite)
```

TERMINAL   PROBLEMS   OUTPUT   DEBUG CONSOLE

```
jgilbert@DESKTOP-KU885S3:/mnt/c/Python-Hobby-Tracker/hobbytracker$ python3 manage.py test
Creating test database for alias 'default'...
System check identified no issues (0 silenced).
.
-----
Ran 1 test in 0.003s

OK
Destroying test database for alias 'default'...
jgilbert@DESKTOP-KU885S3:/mnt/c/Python-Hobby-Tracker/hobbytracker$
```

# Class HobbyTime

```
26 class HobbyTest(TestCase):
27     def test_fields(self):
28         hobbyTime = HobbyTime()
29         user = User.objects.create(username = "JohnnyGilbert57")
30         sprite = Sprite.objects.create(spriteName = "alien")
31         hobbyTime.hobby = Hobby.objects.create(hobbyUser = user, name = "Workout", timeLimit = 1, spriteId = sprite)
32         hobbyTime.startTime = 1
33         hobbyTime.endTime = 2
34         hobbyTime.save()
35         record = HobbyTime.objects.get(pk=1)
36         self.assertEqual(record, hobbyTime)
37
```

TERMINAL PROBLEMS OUTPUT DEBUG CONSOLE

```
jgilbert@DESKTOP-KU885SJ: /mnt/c/Python-Hobby-Tracker/hobbytracker$ python3 manage.py test
```

```
Creating test database for alias 'default'...
```

```
System check identified no issues (0 silenced).
```

```
.
```

```
-----
Ran 1 test in 0.006s
```

```
OK
```

```
Destroying test database for alias 'default'...
```

```
jgilbert@DESKTOP-KU885SJ: /mnt/c/Python-Hobby-Tracker/hobbytracker$
```

# Version Control: GitHub

[Git Repo](#)

# Johnny Gilbert - Maintainer and Front-End Developer

Meetings Attended: 18/18

Completed Tasks: Completed styling of user hobbies page, created a modal pop up that contains the add hobby form, successfully did Pull Requests on Issue9 and Issue6 into main branch, and centered all login/create account options.

Role: maintainer and front end developer

Tools: WSL, VSCode, GitHub, bootstrap/crispy forms and Windows.

# Nathan Bennett - Web Server, Database/ORM, Forms

Meetings Attended: 18/18

Completed Tasks: Created a basic form to input time spent per hobby, began sending dates and time spent per hobby to the chart, worked on getting data for sprite logic, and continued to keep web server up to date.

Role: Database, Forms, & Web Server

Tools: Ubuntu VM, VSCode

# Nathaniel Buchanan - Application Format, Chart, Logic

Meetings Attended: 18/18

Completed Tasks: Assisted our artist to create custom sprites with animations, worked on the format for the chart page, assisted other team members with Issues. Worked on Issue 3, Issue 8, and Issue 10.

Role: Front-end/Back-end development of the application; note-taker; collaborate with each member

Tools: Windows 10 PC, Windows 10 Laptop, Ubuntu, WSL, VSCode, GitHub



# Spencer Deuscher - Researcher, Bootstrap 4

Meetings Attended: 18/18

Completed Tasks: Researched HTML, CSS, Bootstrap and Python logic to get a better understanding and be able to navigate the code better. Started the .gitignore file and have insert the file types into the .gitignore. Implemented Bootstrap 4 onto the Login and New User pages which was Issue 6 for our project on GitHub and got the pull request taken care of.

Role: Styling forms with bootstrap, collaborate with other team members

Tools: WSL, VS Code, Ubuntu, GitHub, Windows 10 PC/Laptop

# Taylor Miller - Py Logic Developer, Researcher, Sprite Implementation

Meetings Attended: 18/18

Completed Tasks: Research, Experimentation, Organization, Powerpoint Creation, Sprite Implementation

Role: Implementing sprites on to the web page, as well as implementing background logic for sprite selection

Tools: WSL, VS Code

## Milestone 4 (Final Milestone)

- Reset Function that restarts a user's data (Start New Week)
- Finished Hobby Page
- Account Alteration (Delete Account/ Change Password)
- Show various different charts of information (E.g., Line Graph and Bar Graph)
- Finished Sprite Logic

# The Team

Team Meetings: Tuesday: @5:00 pm & Friday: @3:00 pm on Discord

Workflow: Branched (with Issues) because of complications with multiple people working at once