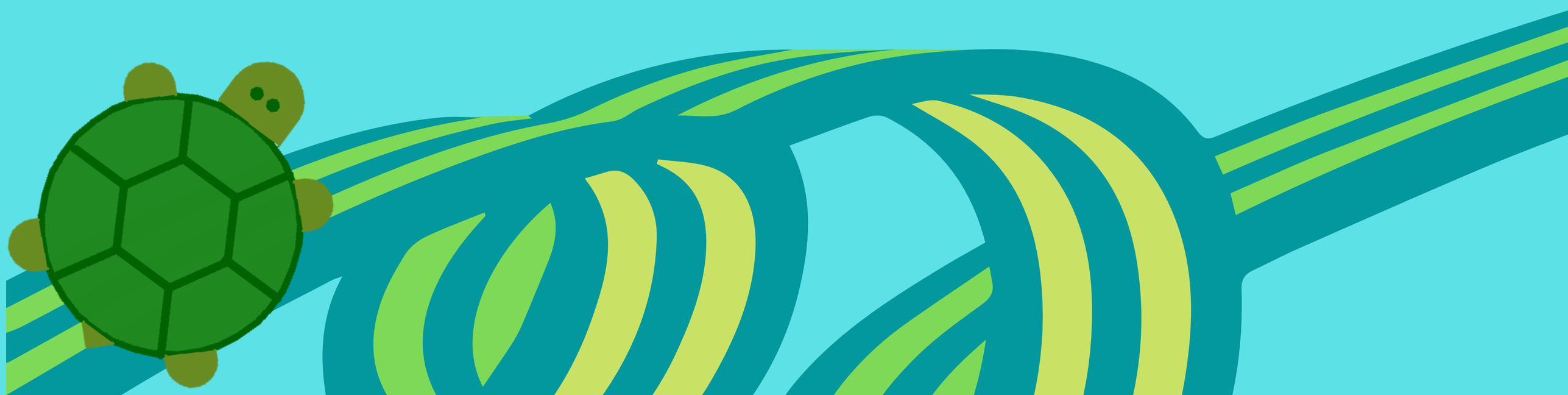
WORD GUESSER

CFG PROJECT

A game by Faizah Malik,
Vanessa Sjoborg, Becky Sorsby,
Zoe Scott, Halyna Maslak



Agenda

What we'll discuss today

01 Objectives

02 Game

03 Development Approach

04 Challenges & Hurdles

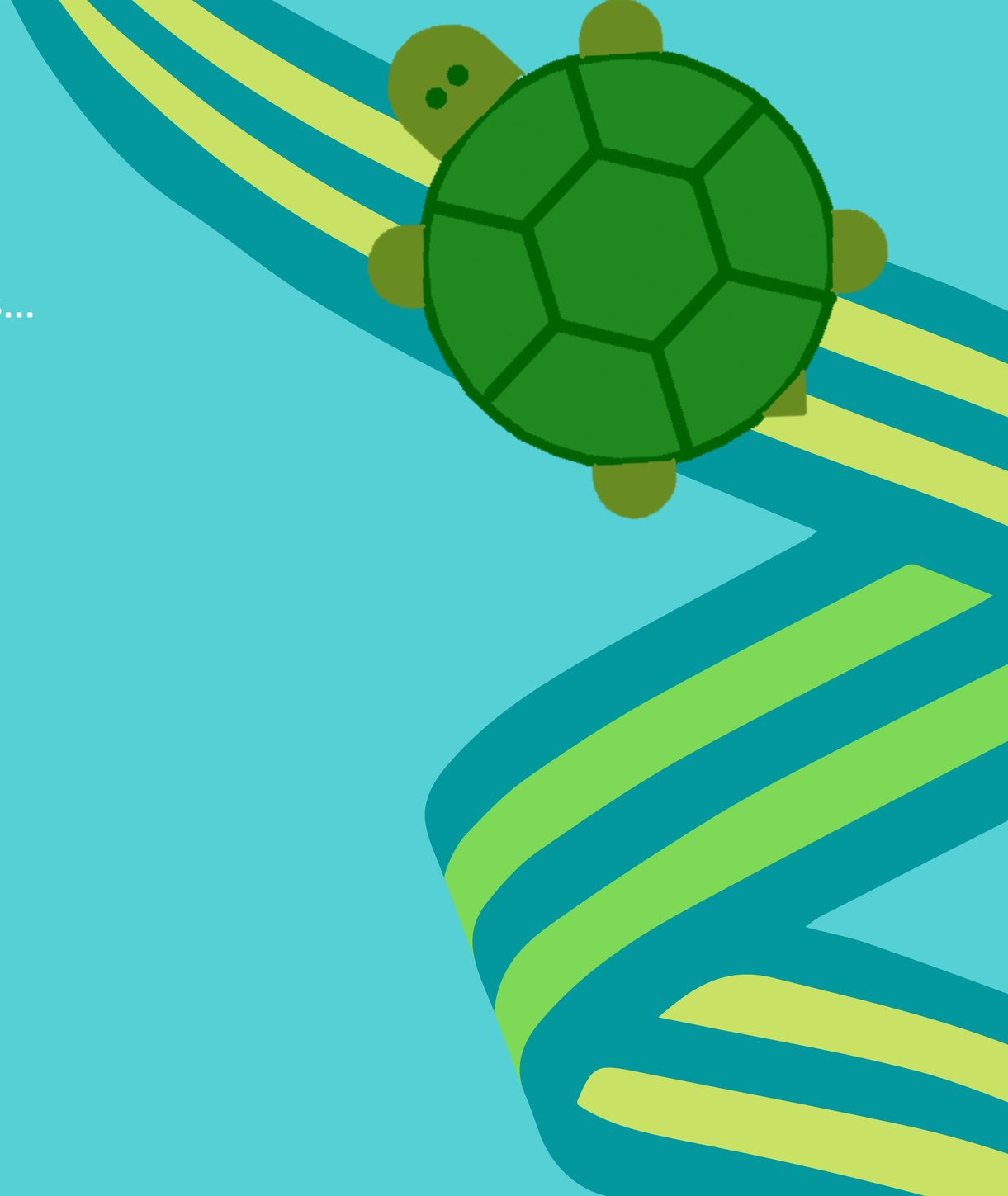
05 Potential Features

06 Learning Outcomes

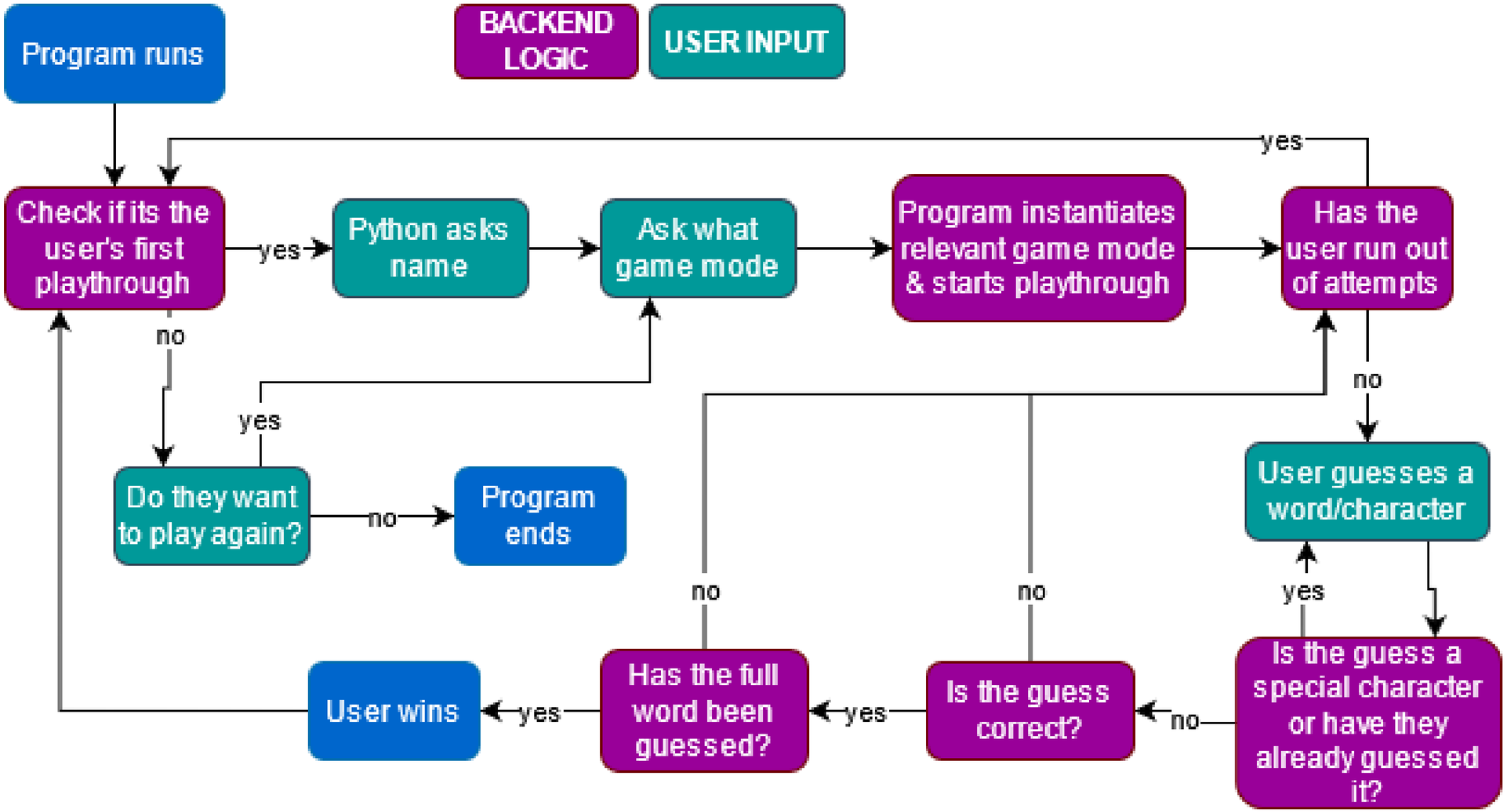
OBJECTIVES

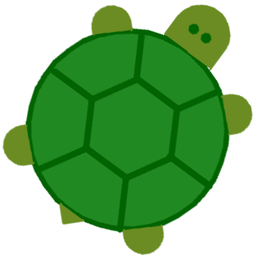
The project must have one of four clear objectives...

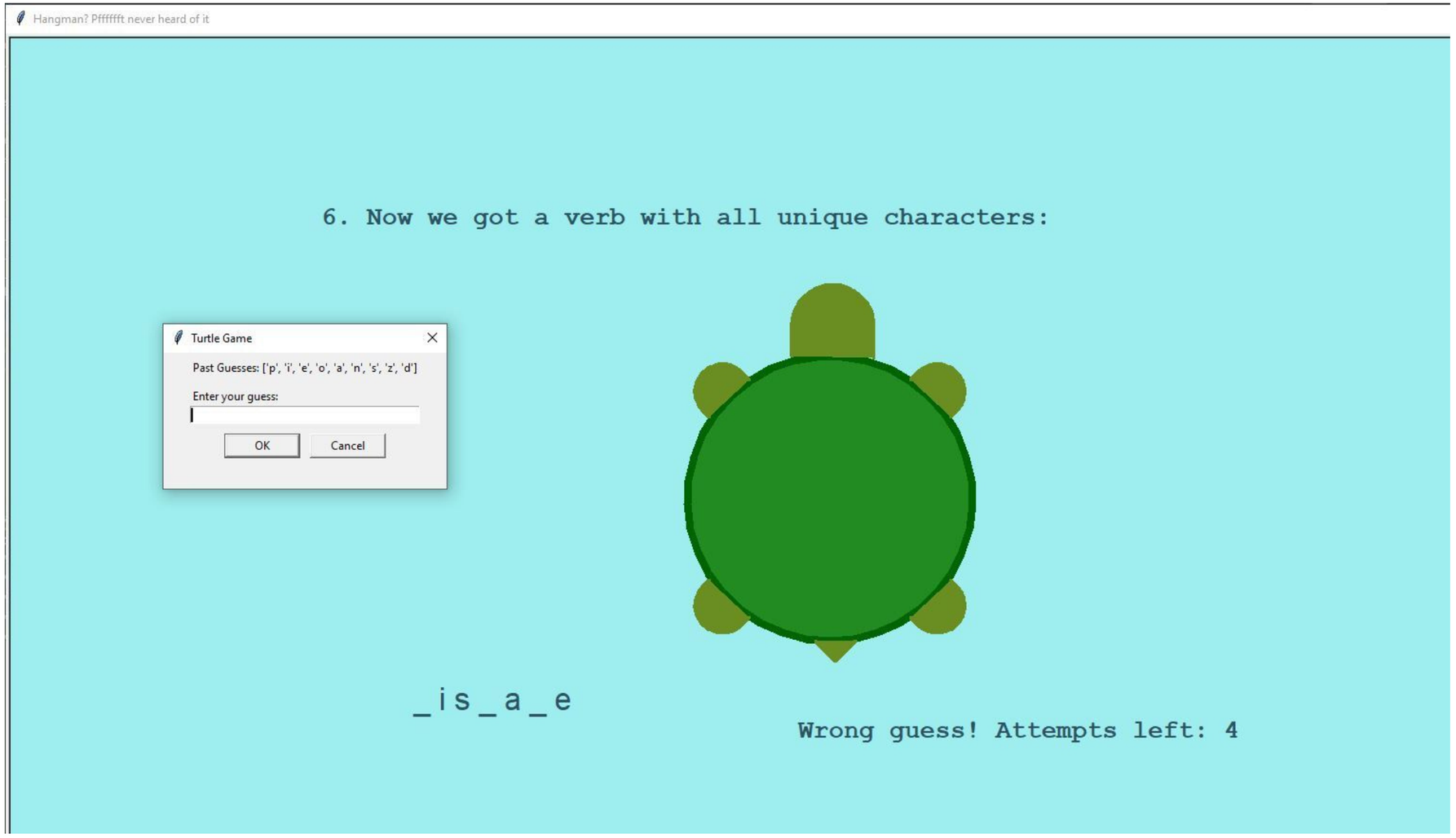
- To create a simple algorithm game
- To satisfy a need
- Help people bond and have fun!

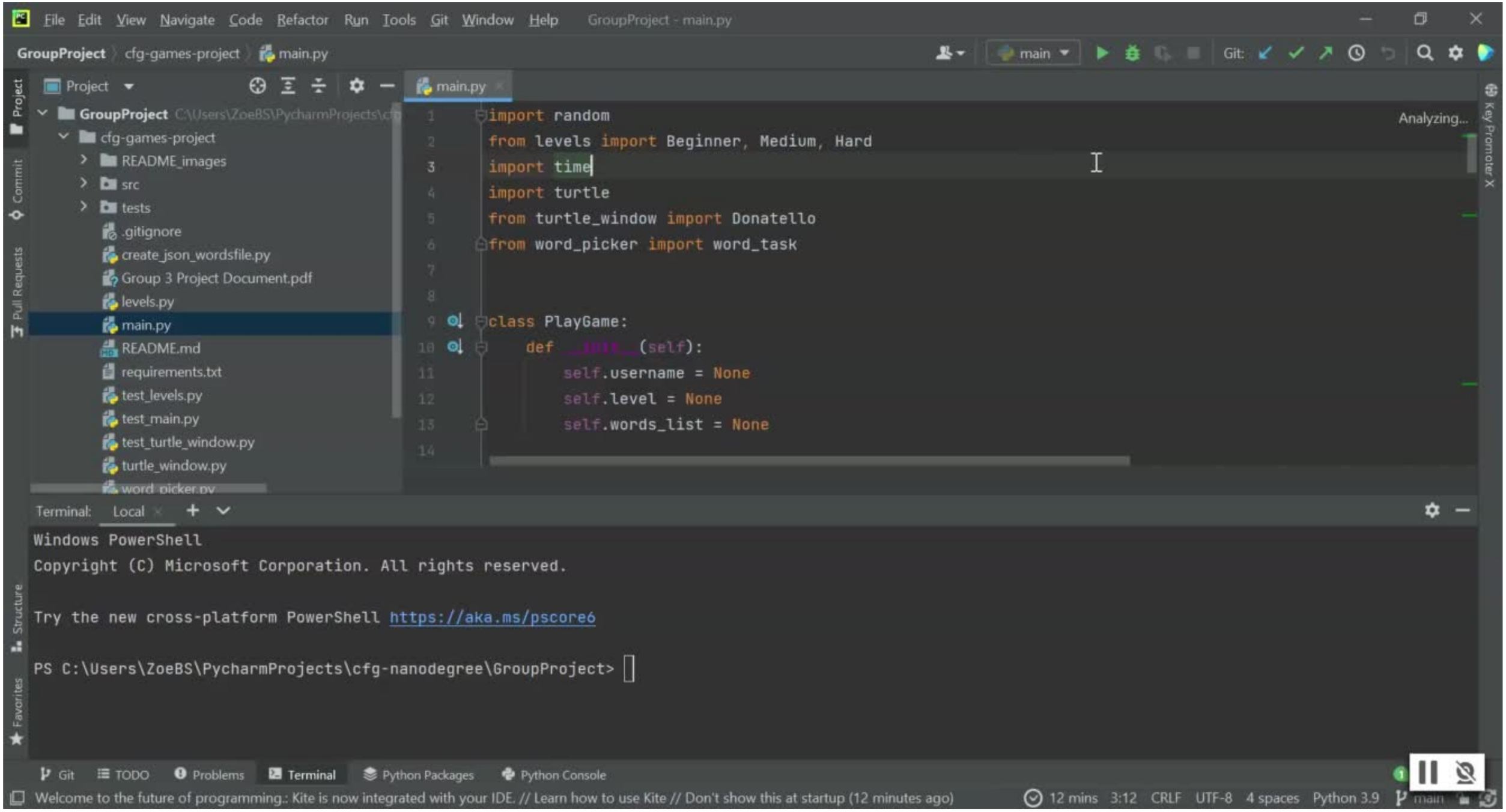


LOGIC


Program runs
BACKEND LOGIC
USER INPUT
Check if its the user's first playthrough
yes
Python asks name
Ask what game mode
Program instantiates relevant game mode & starts playthrough
Has the user run out of attempts
yes
no
Do they want to play again?
yes
no
Program ends
User guesses a word/character
yes
no
Is the guess a special character or have they already guessed it?
no
Is the guess correct?
yes
no
Has the full word been guessed?
yes
User wins




Hangman? Pfffffft never heard of it
6. Now we got a verb with all unique characters:
Turtle Game
Past Guesses: ['p', 'i', 'e', 'o', 'a', 'n', 's', 'z', 'd']
Enter your guess:
OK
Cancel
_ i s _ a _ e
Wrong guess! Attempts left: 4


File Edit View Navigate Code Refactor Run Tools Git Window Help
GroupProject - main.py
GroupProject
cfg-games-project
main.py
main
Git:
Project
main.py
GroupProject C:\Users\ZoeBS\PycharmProjects\cfg
cfg-games-project
README_images
src
tests
.gitignore
create_json_wordsfile.py
Group 3 Project Document.pdf
levels.py
main.py
README.md
requirements.txt
test_levels.py
test_main.py
test_turtle_window.py
turtle_window.py
word_picker.py
import random
from levels import Beginner, Medium, Hard
import time
import turtle
from turtle_window import Donatello
from word_picker import word_task
class PlayGame:
def __init__(self):
self.username = None
self.level = None
self.words_list = None
Analyzing...
Terminal: Local
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.
Try the new cross-platform PowerShell https://aka.ms/pscore6
PS C:\Users\ZoeBS\PycharmProjects\cfg-nanodegree\GroupProject>
Git TODO Problems Terminal Python Packages Python Console
Welcome to the future of programming.: Kite is now integrated with your IDE. // Learn how to use Kite // Don't show this at startup (12 minutes ago)
12 mins 3:12 CRLF UTF-8 4 spaces Python 3.9 main

DEVELOPMENT APPROACH

WORKFLOW

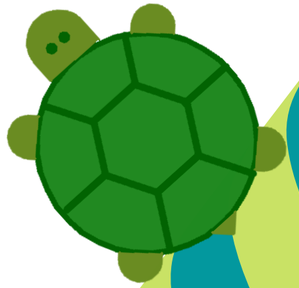
Agile approach (Kanban)
Working to individual strengths

INDIVIDUAL SKILLS

- Halyna – NLTK
- Becky – Turtle
- Faizah – Code structure & OOP
- Zoe – Organisational skills
- Vanessa – Testing, Organisation, Code Structure

CHALLENGES

The hurdles we had to overcome



Too many good ideas!

It's easy to get lost so we learned to prioritise! e.g. picking Turtle over Telegram

Time management

First achieved a clear MVP. Then added features on a rolling basis.

Speed issues

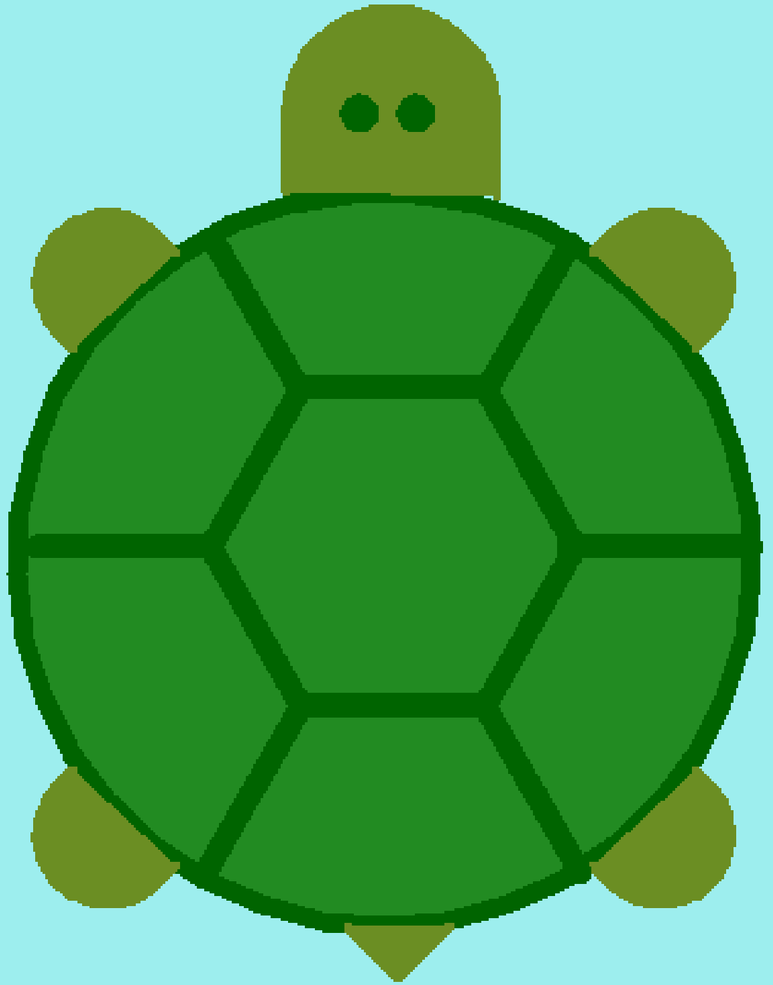
Optimised code and reduced loading speed from 10s to 0.008s

POTENTIAL FEATURES

- Database of users & scores
- Story mode
- Use Pygame/Tkinter for a better GUI
- Different languages
- Categories (e.g. Pokemon, Movie titles, Subjects)

WHAT WE LEARNED

- Time-management & Prioritisation
- Importance of communication
- Problem-solving & Debugging
- The more code we wrote, the better we got



THANK YOU

Thanks for listening.
Any questions?

How many turtles did you see?!

Faizah Malik,
Vanessa Sjoborg,
Becky Sorsby,
Zoe Scott,
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