Word Search Puzzle (P9) - Project Aim

- Interactive game based on Classic Word Search Puzzle
- Search a set of words embedded in a N × N matrix of characters

Different features

- User selectable difficulty levels and Grid Size
- Score
- Time limit



Game Specifications

User Input

- Size of grid N
- Difficulty level Easy, Medium Hard

Game parameters

- Length of longest word, L
- Intersection of words, I
- Oisplay the set of words
- Random filling of characters

	Level 1	Level 2	Level 3
	I- No	I- Yes	I- Yes
	Display - Yes	Display - Yes	Display - Yes
N = 10	WL - 4	WL- 5	WL - 5
	No.of words $=5$	No. of words $=8$	No. of words $=10$
N = 15	WL - 6	WL- 8	WL - 8
	No.of words $=10$	No. of words $=15$	No. of words =20

PyGame- GUI , Python - algorithm

Brief outline of work completed till now

Modules

- charmat holds matrix and get and set word and random fill function
- wordlist
 - holds word list and strategically populates matrix with words
 - chooses words and places them according to the difficulty levels
- GUI setting GUI parameters like size, colours, shapes etc

Work Done

- Completed above 3 modules with unit testing
- Difficulty level 1 ensuring no overlaps and even spread of words
- GUI with fixed sized window, 2 mouse clicks selects the word

Brief outline of work to be done in future

Remaining Modules

- gamestatus holding current status, score, found words, check validity of user selection
- main uses above modules along with GUI and runs the game

Work Remaining

- To complete above two modules
- Build more features in GUI like resizing window, drag and select feature, user selectable options, sounds etc..
- adding more difficulty level with controlled overlap etc..