

SCRABBLE

SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN

BHIMAVARAM

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BATCH - 3

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PROBLEM STATEMENT

Scrabble is a word game in which two to four players score points by placing tiles, each bearing a single letter, onto a game board divided into a 15 by 15 grid of squares.



Figure 1: An image of SCRABBLE GAME

APPROACH

- ▶ Built code for tracking of players details.
- ▶ Next on design of game board.
- ▶ Calculated score values.
- ▶ Initialized tiles into bag.
- ▶ Checking of each word whether it is present in dictionary or not.
- ▶ Placed letters on respective positions.

PROGRESS

- ▶ Day - 1 :
Amrutha, Raheema, Santhoshi - Designed game board.
Likitha, Renuka, Yasasvini - Initialized score values.
- ▶ Day - 2 :
Santhoshi, Renuka, Amrutha - Done with tracking of player details.
Likitha, Yasasvini, Raheema - Implemented turn of chances.
- ▶ Day - 3 :
Likitha, Amrutha, Santhoshi - Placing words on board.
Raheema, Yasasvini, Renuka - Checking words whether valid or not.

- ▶ Day - 4 :
Likitha, Raheema, Renuka - Updating score values.
Santhoshi, Yasasvini, Amrutha - Game for multi user.
- ▶ Day - 5 : Implemented code to declare winner.

CHALLENGES

- ▶ We faced challenges while creating game for many players.
- ▶ We faced troubles while placing words on the board.
- ▶ To calculate score of player when he places tiles on premium squares like DLS, DWS, TLS, TWS.
- ▶ Faced difficulty to print Scrabble board on the screen
- ▶ Faced difficulty to check the word entered by player is formed from given input letters or not

LEARNINGS

- ▶ We gained knowledge on how to work as a team through virtually.
- ▶ Learnt how to make presentations in LaTeX.
- ▶ We attained how to work on project with Python language.
- ▶ We learnt through GitLab how to push files into repository.
- ▶ We have browsed for dictionary file from which we can get atmost valid words.

TECH STACKS

- ▶ We have used GitLab to store our files in Repository.
- ▶ We have used Git bash to write commands to store files in GitLab.
- ▶ Python language of (3.9.4 (64 bit) version to build our code as in PyCharm editor.
- ▶ Latex as a extension in Visual Studio Code to prepare presentations.
- ▶ Done whole project in Windows Operating System.

CODE STACKS

- ▶ We used some conditional statements (if else, else if ladder) and loops (while, for).
- ▶ We used global variables so as to not to call every variable every time.
- ▶ We uploaded dictionary.txt, tiles.txt, scrabble.tex, scrabble.txt, scrabble.pdf files.

STATISTICS

- ▶ Totally we used 9 functions such as, game board , player details, valid word, valid check, word from letters, board display, game play, score, update score.
- ▶ Our code consists of 185 lines.
- ▶ Commits

The screenshot shows the GitHub interface for a repository named 'scrabble' by the user 'TECHWARRIORS'. The repository has 39 commits, 1 branch, 0 tags, 1.5 MB of files, and 1.5 MB of storage. The main branch is 'master'. The repository is public and has 0 stars and 0 forks. The repository description is 'Finalized presentation VEDALIKTHABATCHU authored 49 minutes ago'. The repository includes a README, LICENSE, CHANGELOG, CONTRIBUTING, and CI/CD files. The repository also has a 'Web IDE' button and a 'Clone' button. The repository is also linked to a 'Kubernetes cluster'.

Name	Last commit	Last update
README.md	Description of Scrabble project	1 hour ago
dictionary.txt	Fill with all words in dictionary	4 days ago

REFERENCE

- ▶ GitLab link

`https://gitlab.com/tech_warriors/scrabble`

- ▶ Refrence links
- ▶ <https://www.scrapmaker.com/download/data/wordlists/dictionaries/dictionary.txt>
- ▶ <https://cdn.download-free-games.com/cf/images/nfe/uploads/board1.jpg>
- ▶ <https://www.lucidchart.com/techblog/2016/12/07/how-to-make-a-presentation-in-latex/>
- ▶ <https://scrabble-go.en.uptodown.com/android>

FUTURE SCOPE

We can implement through GUI

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THANK YOU !!!