SCRABBLE

SHRI VISHNU ENGINEERING COLLEGE FOR WOMEN

BHIMAVARAM

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BATCH - 3

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| 4. VILLA AMRUTHA | 19B01A04I9 | ECE |
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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.

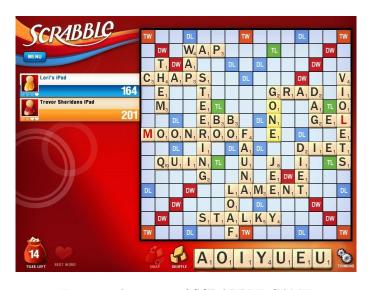


Figure 1: An image of SCRABBLE GAME

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

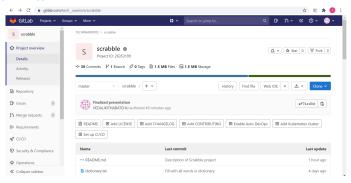
- ▶ We have used GitLab to store our files in Repository.
- ➤ We have used Git bash to write commands to store files in GitLab.
- ▶ Python language of (3.9.4 (64 bit) version to build our code as in PyCharm editor.
- ▶ Latex as a extension in Visual Studio Code to prepare presentations.
- ▶ Done whole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



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

BY TECH WARRIORS



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