

DAYANANDA SAGAR UNIVERSITY

A MINI PROJECT REPORT

ON

“Tetris With Global Leaderboard”

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INTRODUCTION

Web Development is one of the most highly required skills of a full stack developer. It is used to publish websites on the World Wide Web to provide information to the public or as a source of entertainment in any form such as Games, Music, Videos, Blogs, Articles, News, etc. It can be a static website as a plain text website or an interactive and complex Web App, Business site, e-commerce or social media site.

There are many different types of developers involved in a website development: Front-end-developers and Back-end-developers. Both of them are vital to providing a seamless experience in accessing web pages for millions of users around the globe. The frontend developers take care of good and user friendly user interface and the backend developers help with providing the core functionalities and interactions of the website. Together it is known as Full stack development.

PROBLEM STATEMENT:

Tetris is a tile-matching video game created by Russian software engineer Alexey Pajitnov in 1984. It has been published by several companies, most prominently during a dispute over the appropriation of the game's rights in the late 1980s.

We are developing a WebApp for tetris that will allow a user to play the game and compete with a global leaderboard for the highest score. We will use open source tools to develop the WebApp such as HTML, JavaScript, CSS, node.js.

OPERATIONAL DEFINITION:

The game will allow the following operations:

You can pause the game

Rotate bricks

Speed them down

Move them left and right.

SCOPE OF THE PROJECT

This project will touch upon various topics including:

- Web development
- HTML
- CSS
- JavaScript
- Node.js

EXISTING SYSTEM

Any existing official Tetris website is available and is run on the support of many advertisements. It is very user interactive but does not have a global leaderboard for the users to show off their achievements.

PROPOSED SOLUTION:

The proposed WebApp allows the user to play the game and at the end of the game enter their username to display their current score to the public on the leaderboard chart.

POSSIBLE OUTCOMES

A Webapp with multiplayer environment for Tetris with global leaderboard

REFERENCES:

- <https://hackaday.com/2010/06/20/tetris-code-theory-explained/>
- <https://tetris.com/play-tetris>