

Two-Edged Soroban

Project Synopsis
of Full Stack Project-I

Bachelor of Technology
Computer Science and Engineering Branch

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Title of the Project

Two-Edged Soroban

Abstract

In our daily lives, we encounter many situations where we need to perform several calculations. Sometimes, this becomes annoying when we need to do even the basic calculations manually. At the same time, to handle such pressures around, we need some entertainment where we find playing games more relaxing these days. Thus, we are providing a platform where user can cope up with both the situations.

Objective

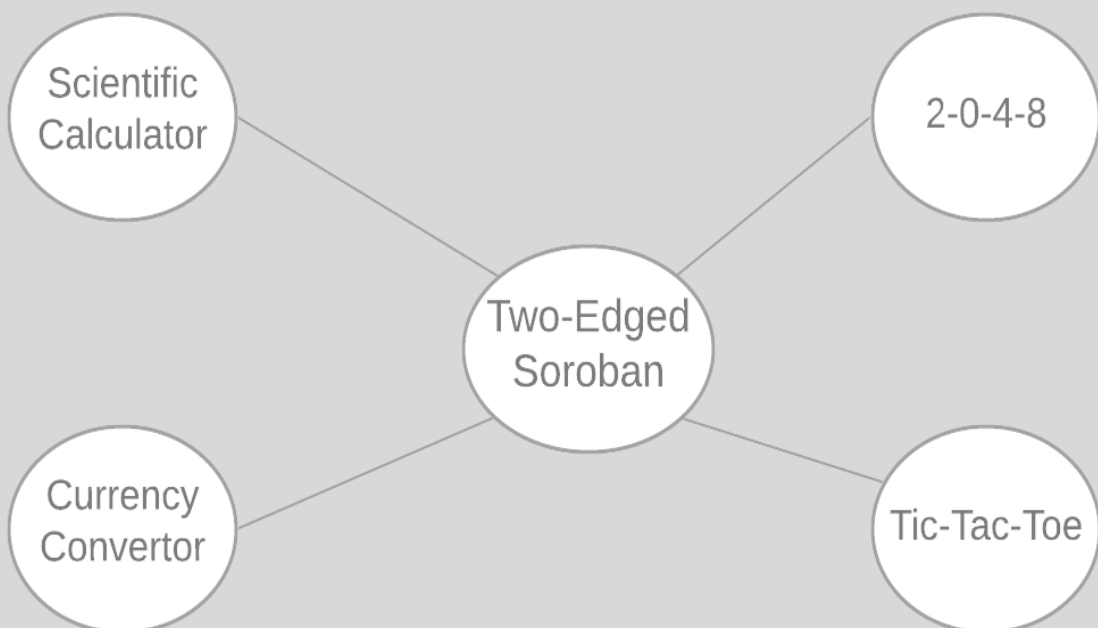
Two-Edged Soroban, as the name suggest is a fusion of calculator and games. In tools section, there are further two more sections i.e. scientific calculator and currency convertor, and then in games section there will be two different games as well. We will be providing the user various applications in a single platform that will save their time. Also, we are going to focus more on the user interfaces for better user experiences.

Data Flow Diagrams

Level-0 DFD :-



Level-1 DFD :-



Functionality

Our system will provide some basic tools and games with broad layouts, in particular we will have :-

- Main page containing two navigations to the Tools and Games sections.
- In Tools navigation, user will have scientific calculator and currency convertor as per their convenience.
- In Scientific Calculator, user can perform basic and advanced mathematical operations.
- In currency convertor, user can convert the currencies of different countries into respective ones.
- In Games section, user will find two games, i.e. Tic-Tac-toe & 2-0-4-8
- User can play any of games which they will find more entertaining.

Future Scope

- We will add more types of games in games section.
- We will also add some backend and database to store the max score in games and recent calculations in calculator.
- We can provide the user SignUp/SignIn facilities, to keep track of their scores of the games.
- We can also allow games to connect with social media platforms like, Facebook, Instagram, etc.

GitHub Repository

<https://github.com/Academic-Projects-GLAU-2021-2022/Two-Edged-Soroban>

Technology

Hardware Requirements :

- Computer System with minimum 8GB of RAM

Software Requirements :

- Windows/Linux OS
- Visual Studio Code

Programming Languages :

- JavaScript
- HTML
- CSS

Conclusion

Entertainment and brain exercising games goes hand-in-hand, with calculators, convertors and skillful games. Our system as a whole will prove to be helpful for people who prefer games as a source of improving their thinking skills and concentration levels. Calculations and conversions will be easy with our tools for the people who daily work with numbers and their applications. At the same time our system will help in two way to the people for enhancing their ability to work independently and cooperatively.