Final Project Proposal (CS242)

Breakout Game

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1. Abstract

1.1 Project Purpose

This project is a 2D Breakout game.

1.2 Background/Motivation

I really enjoy playing Breakout game when I was little and interest in creating computer game now. The chess assignment is quite interesting, so I decide to make another game in Java.

2. Technical Specifications

2.1 Platform

PC and MAC.

2.2 Programming Languages

Java.

2.3 Stylistic Conventions

Java Stylistic Conventions.

2.4 SDK

Java Development Kit.

2.5 IDE

IntelliJ IDEA CE.

2.6 Tools/ Interfaces

PC and MAC.

2.7 Target Audiences

Anyone want to play Breakout game.

3. Functional Specifications

3.1 Features

All functions that classical Breakout game have, for instances moving ball, moving bar to control the ball, bricks and so on. Also I will add some special features, like bricks need to be break twice, random falling functional bricks that can enlarge/shorten the bar.

3.2 Scope of project

Limitations are following as the rules of the game.

4. Timeline

4.1 Week 1

Game logic, the data structure of the bricks, moving balls and control bars.

4.2 Week 2

User interface to show the game objects. Actually moving bars and balls.

4.3 Week 3

Menu with function that restart game and highest score system.

4.4 Week 4

Falling bricks with special functions.

5. Future Enhancements

Adding some animation effect if possible, enhance UI, add online competition system, and more special bricks.