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Project Title

Flappy Bird Game Application

1.0 Introduction

The Flappy Bird Game app is a game to entertain users. This app has one user, the player who plays the game. They can use the app to enjoy playing games to earn high scores. Scores will be recorded to the database to keep seeing the highest score. The database is to save the score that users will see .Flappy bird game need to collect points to make this game more interesting. The more points the player accumulates, the faster the shot goes from the right. This Flappy bird also features a shot from the right to prevent players from getting hit. There we can collect as much as we can. The points are 3 different colours of black, orange and pink. For black, users should avoid taking black points as they can cause the bird to die. Colour pink and orange point is a must for users to collect more points and get high score. Users can change their name to see different scores. That makes the game more competitive. Therefore, the game will have multiple players with one device.Where users can change from time to time on the same device with different player names to see scores.

1.1 Target User

The user for the Flappy bird game application is one user.Which is the player who playing the game for fun. The user use the application is to fill their time to entertain themselves with playing games.

1.3 Project Objectives

The first objective is to entertain the user by playing game. Which is the user can spend their time with playing game. At the same time, they can be more aggressively to beat their own high score. It could be addictively and fun.

The second objective is to reduce stress. Nowadays people can get stress with their loaded work and assignment. The possibility to reduce the stress is to entertain themselves with playing game. The flappy bird is addictive and fun that could be reduce the stress of world problem such as work and assignment. Hence the game is much simpler and easy to play which the user can easily gain score.

The last objective is to add free entertainment into game industry. The application is free apps .Which is the game being available to all users to entertain themselves with fun and interesting flappy bird game.

1.4 Project Scope

For the project scope , this application has a one user to play a game .This game application make to entertain themselves to be more excited with playing game and not to be stressful always .This Flappy bird game is just want to beat highest score by to gather from a sheep point for to playing game . If you can get more points then it's best to always playing the flappy bird.

1.5 System Requirement

ACER ASPIRE 3 A315-41G-R7HY LAPTOP

PU / Processor	AMD Ryzen R5-2500U (Turbo Boost 3.60GHz, 6MB Cache, Base Frequency 2.00GHz)
Memory	4GB DDR4 Memory RAM (Upgradable to 12GB)
Storage	1TB HDD
Graphic Card	AMD Radeon 535 2GB
Display Screen / Design / Resolution	15.6" Full HD 1920 x 1080 IPS, high-brightness Acer ComfyViewTM LEDbacklit TFT LCD
Camera	Acer webcam, 640 x 480 resolution
Operation System	Windows 10 Home 64-bit
Optical Drive	-
Audio & Video	Two built-in stereo speakers
Network / Connectivity Technology	802.11a/b/g/n/ac wireless LAN Bluetooth® 4.1 Gigabit Ethernet, Wake-on-LAN ready

1.6 Hardware and Software Requirement

Hardware and software requirements including operating system, programming languages and database management systems.

Android Studio

Android Studio is the official integrated development environment (IDE) for Android application development. It is based on the Intel IDEA, a Java integrated development environment for software, and incorporates its code editing and developer tools. To support application development within the Android operating system, Android Studio uses a Gradle-based build system, emulator, code templates, and github integration. Every project in Android Studio has one or more modalities with source code and resource files. These modalities include Android app modules, Library modules, and Google App Engine modules.

SQLite Database

SQLite is a C-language library that implements a small, fast, self-contained, high-reliability, full-featured, SQL database engine. SQLite is the most used database engine in the world. SQLite is built into all mobile phones and most computers and comes bundled inside countless other applications that people use every day. The SQLite file format is stable, cross-platform, and backwards compatible and the developers pledge to keep it that way through at least the year 2050. SQLite database files are commonly used as containers to transfer rich content between systems and as a long-term archival format for data. There are over 1 trillion SQLite databases in active use.

Hardware

The hardware that will be used for developing the flappy bird game application is latest windows laptop, which is windows 10.Windows that have more features to develop and download necessary software. Besides that, we also use 12GB ram on laptop to make sure when developing does not make any issues or problem with 1000GB HDD.

Software

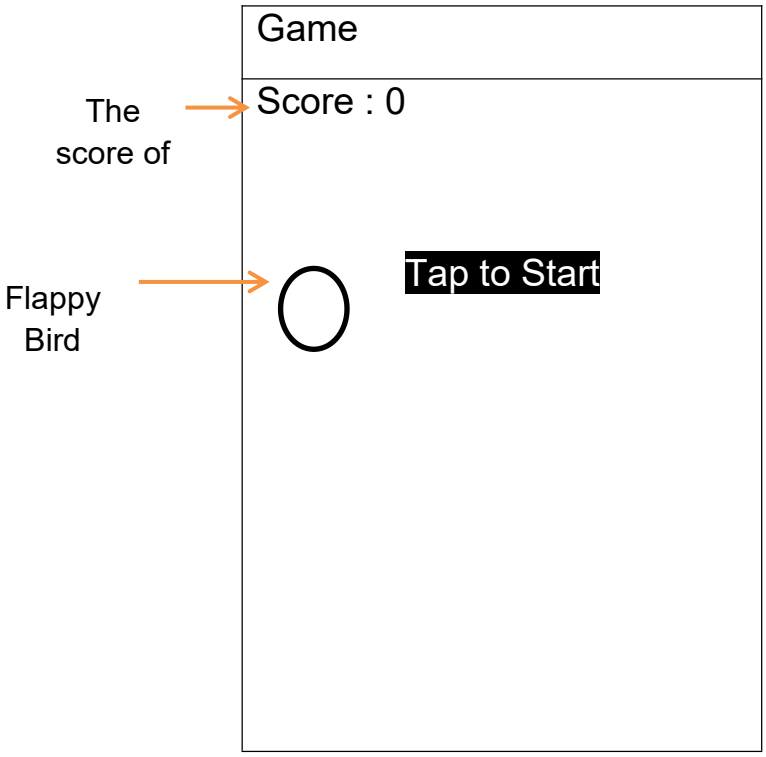
Software that will be used for developing the game is android studio. It is because the software has more feature to develop and much easier. The language for developing is java. The database that will be used is SQLite.We also XAMPP to connect the application to database while developing.

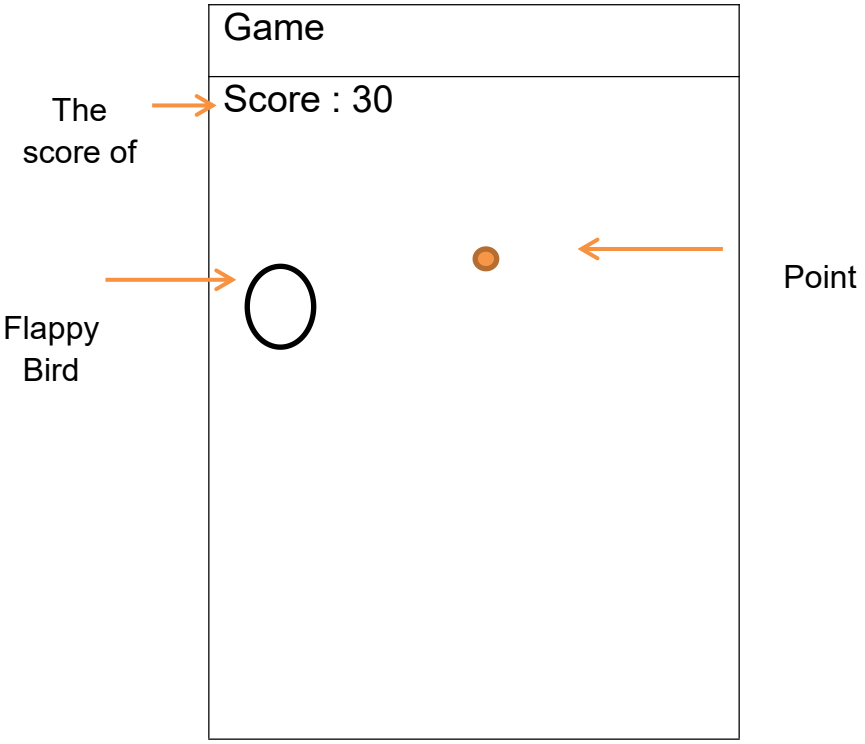
1.7 Gantt Chart

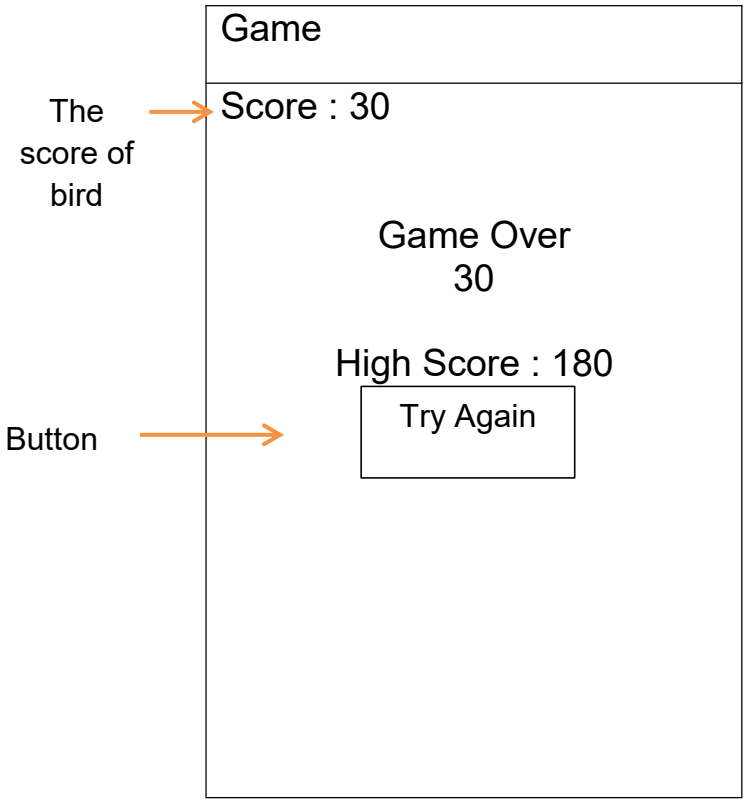
	W E E K S

Task Name	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Information Gathering														
Analysis Data														
Writing Proposal														
Designing														
Implementation and Developing														
Testing														
Maintenance														
Writing Report														
Project Demonstration														

2.0 Interface Design (Sketch)


Game
Score : 0
The
score of
Flappy
Bird
Tap to Start

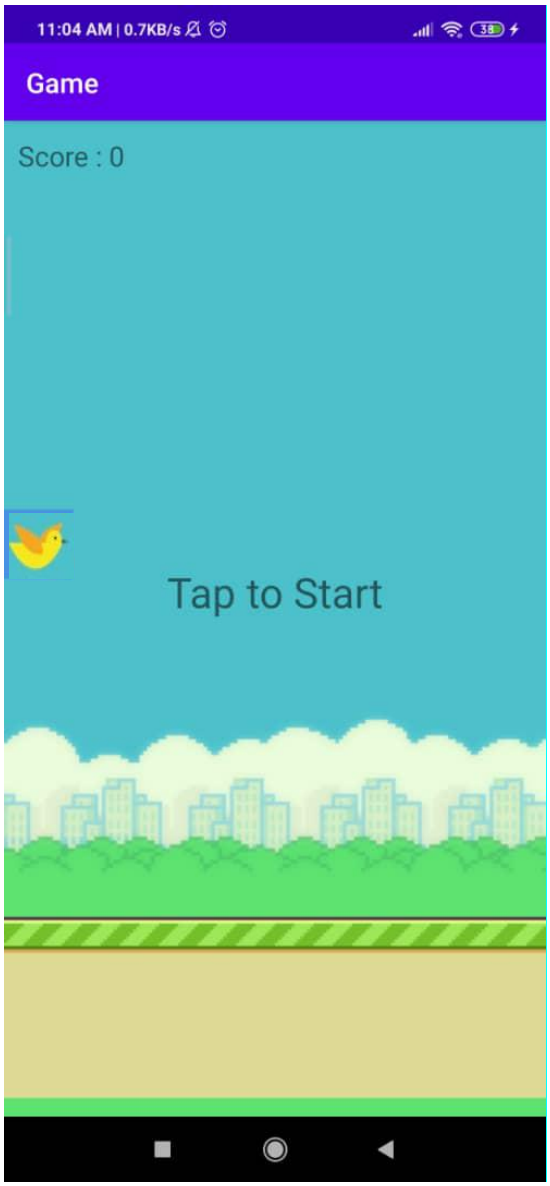

Game
Score : 30
The score of
Flappy Bird
Point


Game
Score : 30
The score of bird
Game Over
30
High Score : 180
Try Again
Button

3.0 Task Distribution

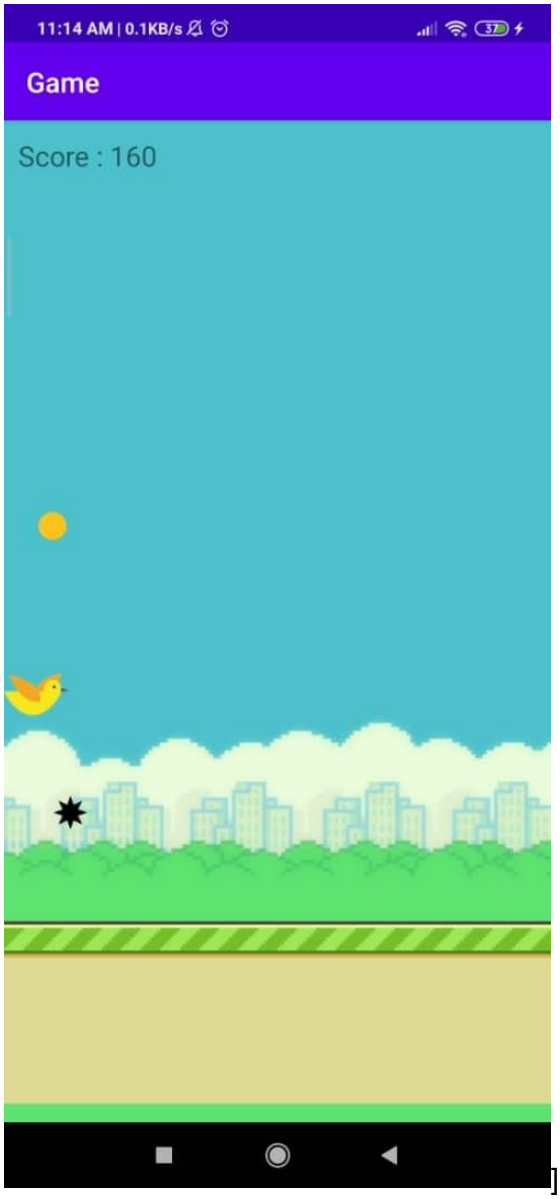
Tasks	Project Development	Report
Information Gathering	Ziyad and Mimi	Ziyad and Mimi
Analysis Data		
Writing Proposal		
Implementation and Developing		
Testing		
Maintenance		
Writing Report		
Project Demonstration		

4.0 User Manual



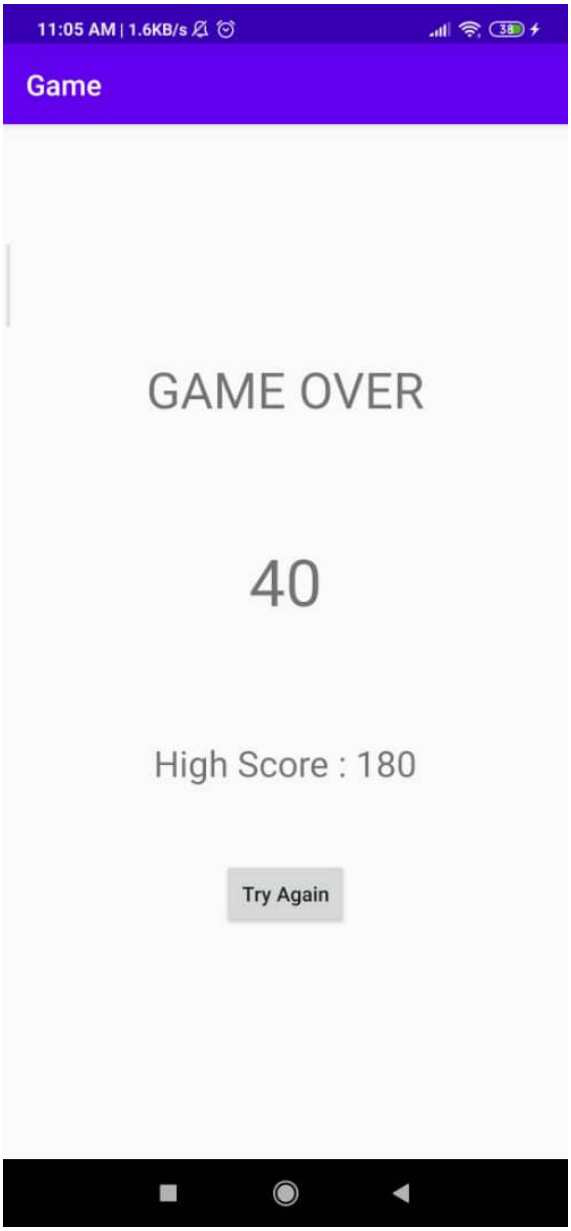
First Interface

The first screen is to start a game of flappy bird, to start the game users must click of ‘Tap to Start’ and the bird can fly to collect point and score is to generate how long the flappy can survive.



Second Interface

Second screen is showed the users play the game and to collect point by random. The points are 3 different colours of black, orange and pink. For black, users should avoid taking black points as they can cause the bird to die. Colour pink and orange point is a must for users to collect more points and get high score.



Third Interface

The last screen is shows the result of the game where users game over the game, also view the total point users get and total of high score for flappy bird game , the users also can clicked the button ‘Try Again’ to start over the games.