

REVENGETABLES

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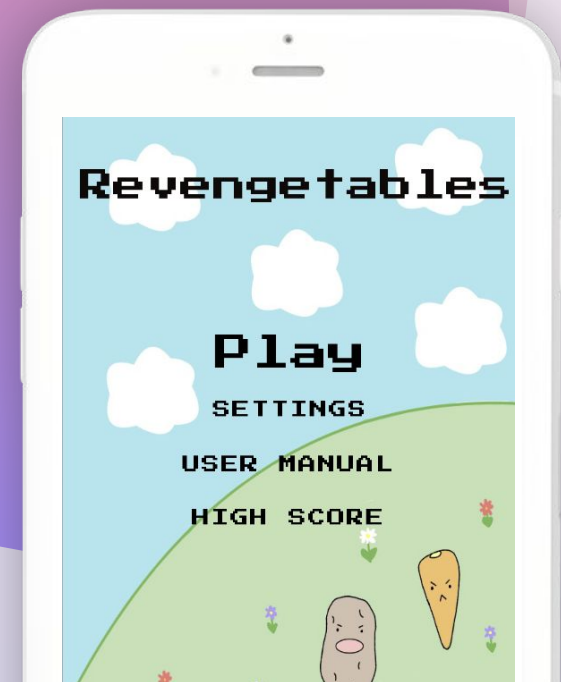
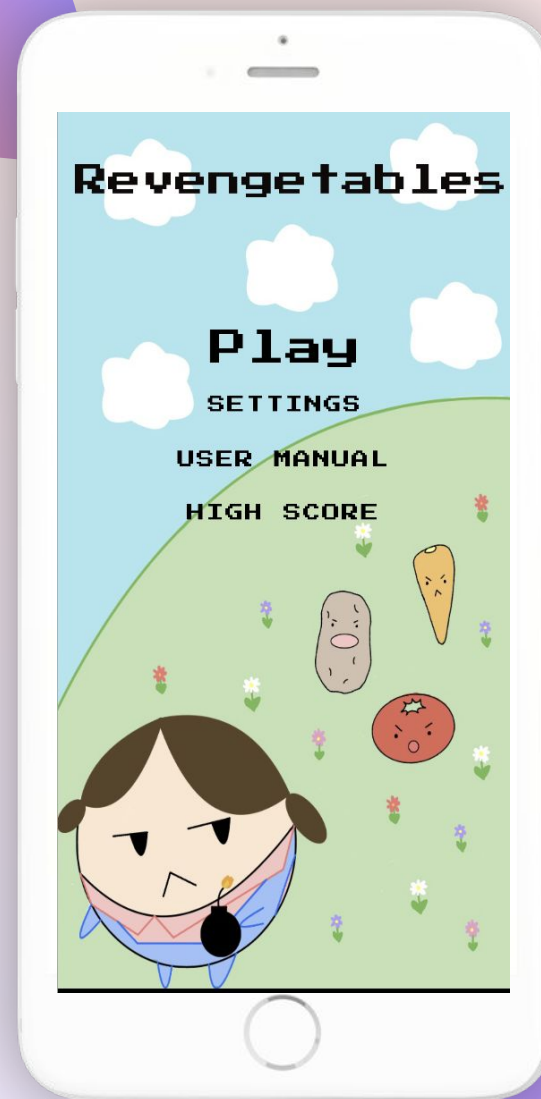
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COMING SOON

Google Play 



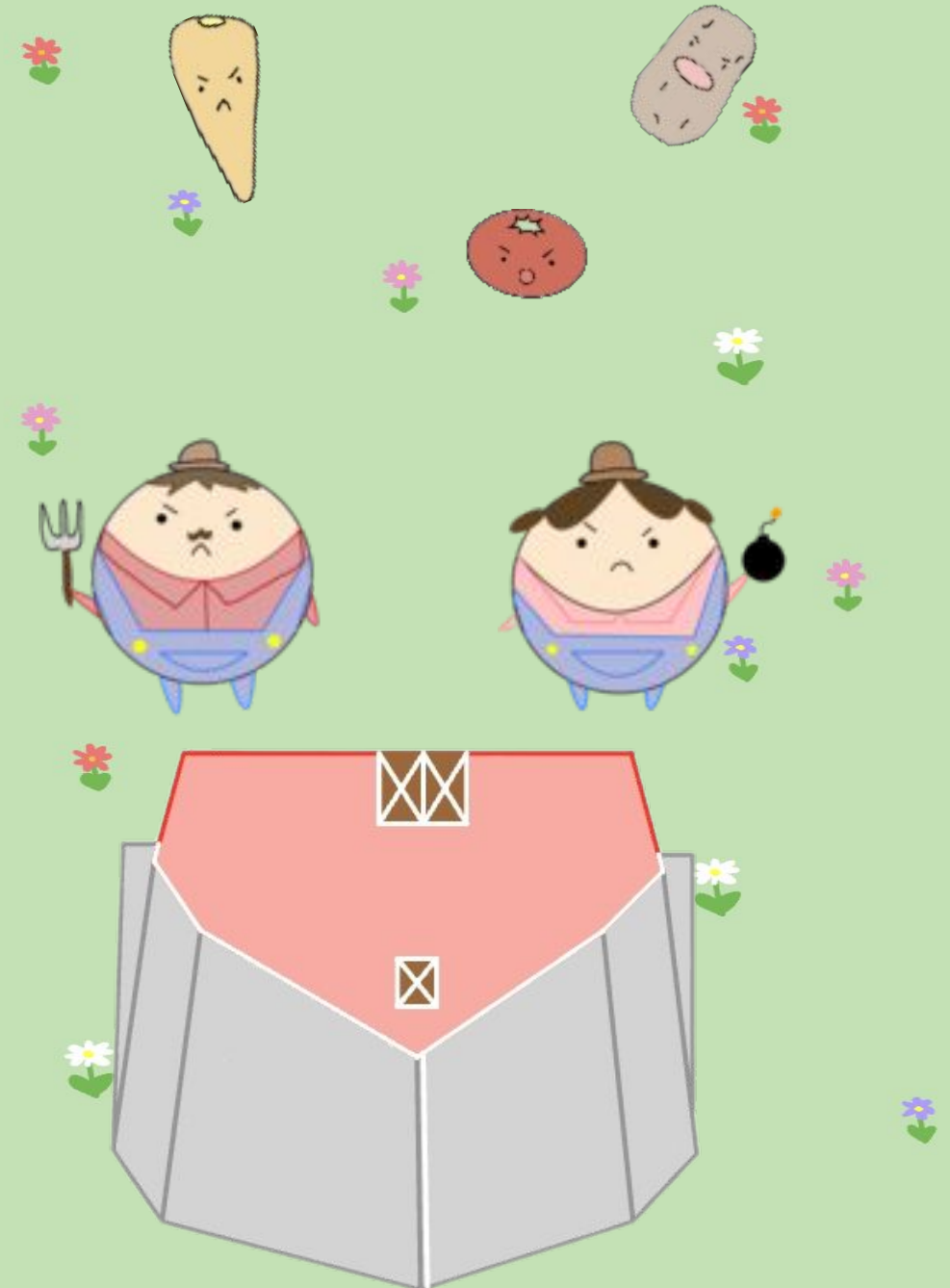
01

THE INVASION...

Infectious vegetables have infiltrated the farm and it is your responsibility to protect the crops and the farm!

You will have a variety of farmers to choose from that have their own special abilities :

- **DEBBIE** is a farmer by day, and demolitions expert by night! In an instant, she can blow away hoards of vegetables via a dazzling explosion! Kaboom!
- **GERALDO** was once a professional fencer, but he enjoys his retirement tending to his farm. A pitchfork pro, he dashes through battalions of vegetables with style! En Garde!



02

Requirements & Features



Requirements

Moving graphical pieces.

- Farmer, Infected Vegetables

The ability of the user to control some of the moving pieces through input.

- Farmer responds to an input from the user ⇒ touching and dragging

Include a score that is changed based on the user satisfying requirements.

- Score is incremented based on
 - a. Time elapsed
 - b. Number and type of monsters killed



Features

High-score list that persists when the app is closed and then reopened.

Allow the user to tweak the rules of the game being played.

- Types of Farmer Movements
 - a. the **DASHING** farmer
 - b. the **EXPLOSIVE** farmer
- Difficulty
 - a. Easy, Medium, Hard
- Music on/off

Integrated sound effects for

- Home Screen
- Lose Screen
- Button Clicks

C++ Backend

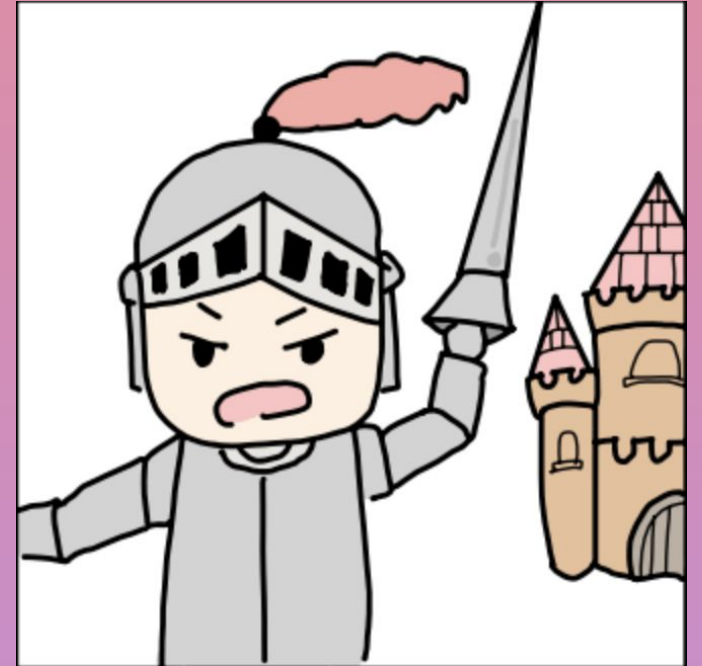


Design Development

We started with the concept of 'Knight's Labyrinth', where a brave knight defended a castle from attacking monsters.

However, we wanted to create a game that could appeal to a wider audience and decided to pivot towards a more universally loved game.

Thus, we developed a new concept that would provide an engaging and exciting experience for players of all ages and interests.

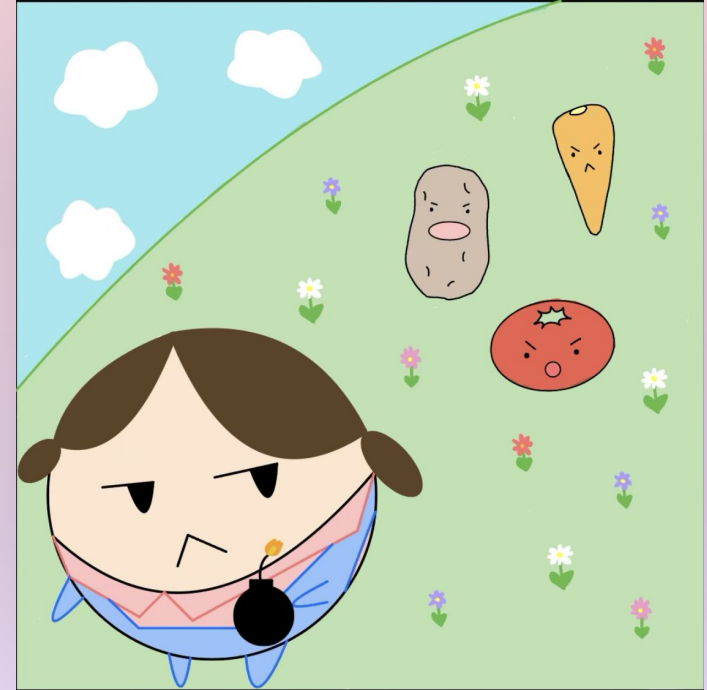


Original concept art for Knight's Labyrinth

03

Project Demos

Logo



LIVE DEMONSTRATIONS + GAMEPLAY

A large, abstract, curved shape in shades of pink and purple occupies the right side of the image, extending from the top right corner towards the bottom left, partially overlapping the white background.

04

Obstacles and Future Implementations

As we navigated through this project, we came across numerous issues:

- We had to adjust to the large scale of the project
 - Created a system to keep git repo organized
 -
- Learning the tools and levels of abstraction in Android Studio
 - Binding/fragments
 - Setting up SDK, NDK, and emulator
 - Gradle

Although we were able to accomplish all of the deliverables, we fell short in a few categories:

- Sound effects were added, however, we did not incorporate any sound effects for the special ability of each farmer
- The C++ backend did nearly all calculations
 - we had a few functions in Backend that were more compatible with Java than C++
- The ScoreBoard could have used player names.

Remaining Deliverables:

- Unit Testing
- Proper Documentation
- Additional Features/Polishing of existing features to improve user experience

Improvements:

- Use activities rather than fragments.
- Create separate classes instead of switch statements for each monster rather than combining them into one case system.
 - More efficient - frontloads processing
 - Less chance of error
- Use Gitlab for issues and documentation

Thank You

Any
Questions?