Readme

ANGRY BIRD PROJECT

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Project Structure

The game consists of several main classes and screens that define the user interface and gameplay experience:

1. AngryBirds.java (Main Class)

Entry point of the game. Initializes the game, sets the initial screen to StartPage, and manages the game's primary state. Holds a SpriteBatch, which is used to render textures on each screen.

2. Screens

- **HomePage.java**: The introductory screen that briefly displays a splash image or animation, then transitions to the main menu.
- StartPage.java: The main menu where players can start the game or access other options.
- LevelSelection.java: The level selection screen, allowing users to choose from multiple game levels.
- **Level1.java** and future levels: Represents individual levels of gameplay, where game logic is implemented for user interaction.
- WinScreen.java and LossScreen.java: Screens shown based on the outcome of the level.

Flow of Execution

The game's flow begins with initialization in AngryBirds.java, where StartPage is set as the first screen. The screens are navigated based on user inputs, and each screen has a specific role in guiding the player through the game. Below is a breakdown of each screen's role and flow:

1. Game Initialization:

• The game starts with AngryBirds.java, which initializes SpriteBatch and sets StartPage as the first screen to display.

2. Home Page:

- Displays a splash image or animation and, after a brief delay, transitions to GameScreen.
- · Key Methods:
 - show(): Loads and displays the splash image.

Readme 1

- render(): Maintains the display period, then transitions to GameScreen.
- o dispose(): Releases resources when the screen is no longer active.

3. Start Screen:

- Provides options for the player to start the game or explore additional features.
- · Key Methods:
 - render(): Checks for user interaction on menu options.
 - dispose(): Frees up resources once the screen is exited.

4. Level Selection:

- Displays level options that the player can select.
- Key Methods:
 - render(): Handles touch input for level selection and the back button.
 - o dispose(): Releases resources associated with the home screen.

5. **Level1**:

- Represents individual levels, handling the gameplay mechanics.
- · Key Methods:
 - render(): Runs the level's game logic and captures user interactions.
 - dispose(): Cleans up resources once the level is exited.

Setup and Execution Instructions

To set up, run, and test the project, follow these steps:

1. Clone the Repository

In your IDE (e.g., Intellij IDEA), go to File > New > Project from Version Control > Git.

Enter the repository URL, select the directory to clone to, and click clone.

Repository URL: https://github.com/SidharthKarnatak/AngryBirdsGame2

2. Build the Project

- Ensure you have LibGDX and Java JDK installed.
- Configure the project to include LibGDX dependencies.

3. Run the Project

- Set AngryBirds as the main class.
- Run the project through the IDE.

Readme 2