TMP 3413 Software Engineering Lab Project (Mario)

Group: Five Stars

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Introduction

- 1. The development and enhancement of the information technology have introduced a lot of games.
- 2. Popularity of traditional Mario has been taken over.
- 3. Project objectives :
 - Improve the popularity and quality of Mario
 - ii. Involve some educational purpose in the game
 - iii. Save valuable childhood memory

Introduction (Con't)

- 4. Include sound event, mouse event, keyboard event, graphic character and background.
- 5. Run on all computer with java platform installed.



External Interfaces

1. Hardware Interfaces

- Mouse
- Keyboard

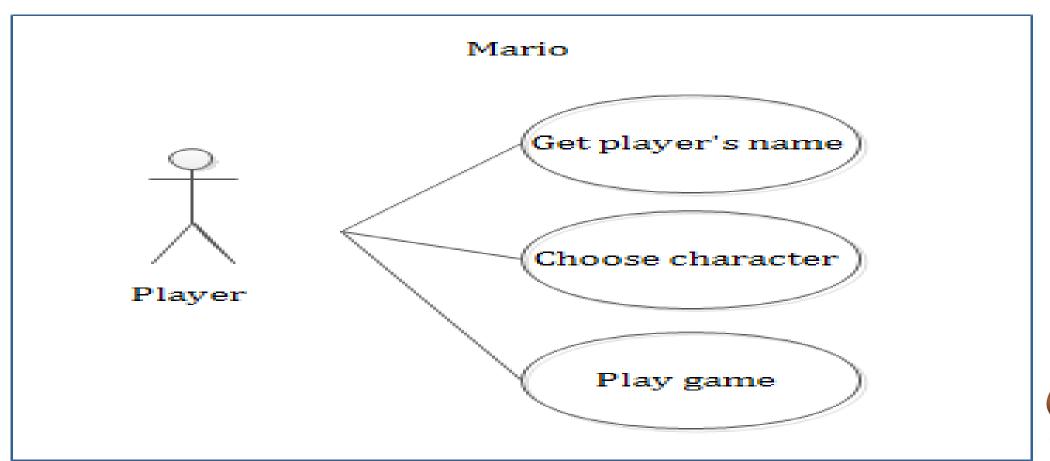
2. Software Interfaces

Java

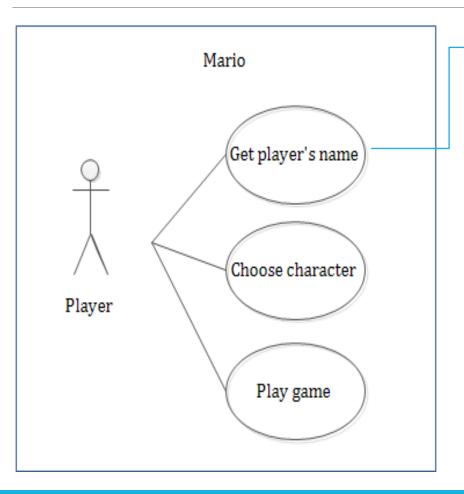
3. Communication Interfaces

- Not a web application
- No communications functions and communication standards





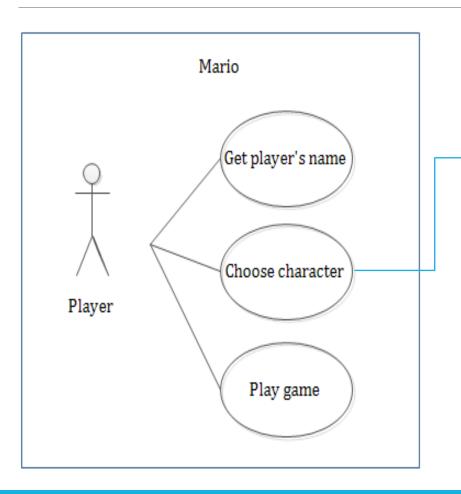


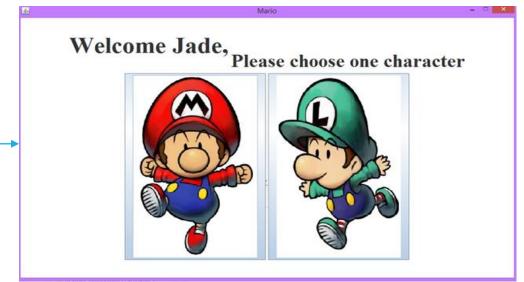




- 1. The game will provide an interface at every beginning whenever player wants to play the game.
- 2. The game will prompt player to enter his or her name.
- The game will continue after player clicks the "OK" button

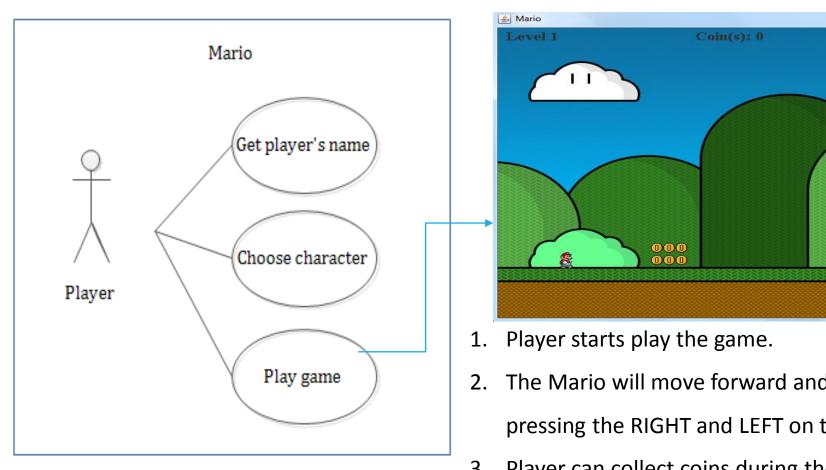


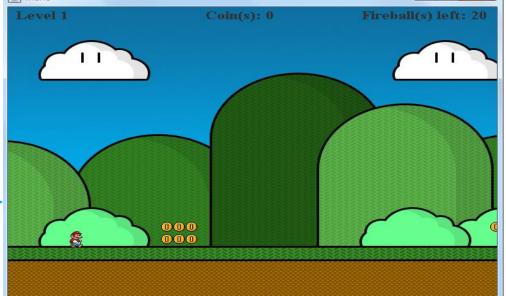




- 1. The game will print out player's name and prompt player to choose character.
- 2. Player chooses the character by clicking one of the CHARACTER button.
- 3. The game will continue.

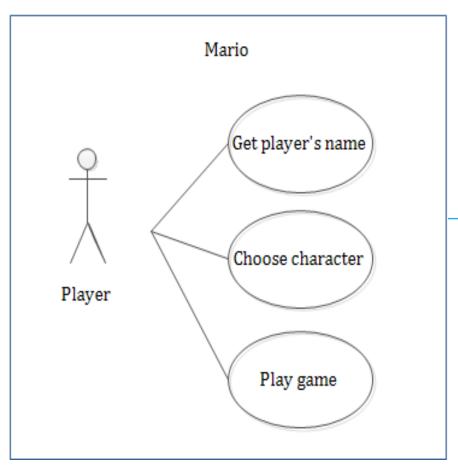


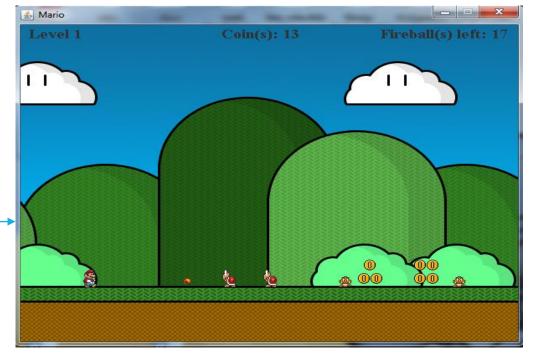




- The Mario will move forward and backward by pressing the RIGHT and LEFT on the keyboard.
- Player can collect coins during the adventure.







- 4. Player has to kill the enemies in the game.
- 5. A fireball will be fired each time when the player presses SPACEBAR.



Video of the game



Non-Functional Requirements

1. Performance Requirements

- The loading time for Mario will not take more than 10 seconds.
- The game shall respond to each player input within 3 seconds.



Non-Functional Requirements (Con't)

2. Software Quality Attributes

- Usability
 - > A new player should be able to play a complete game of Mario in less than 10 minutes.
 - > A new player should commit less than one error in use of the game every ten minutes.
 - A user who is familiar with the traditional Mario game be able to correctly play the game without any written documentation.
- Portability
 - Compatible to devices with Java implementations

Difficulties

1. Communication

- Difficulties for some group members to online
- Progress of the project is not up to date
- Solution:
- i. Have a face to face meeting more frequent, every Monday (5p.m.-7p.m.), every Wednesday (1p.m.-3p.m.), every Friday (4.30p.m.-6.30p.m.)
- ii. Process manager will finalize everything from the FB group chat into Word document each day and upload it to the group chat







Thank You!