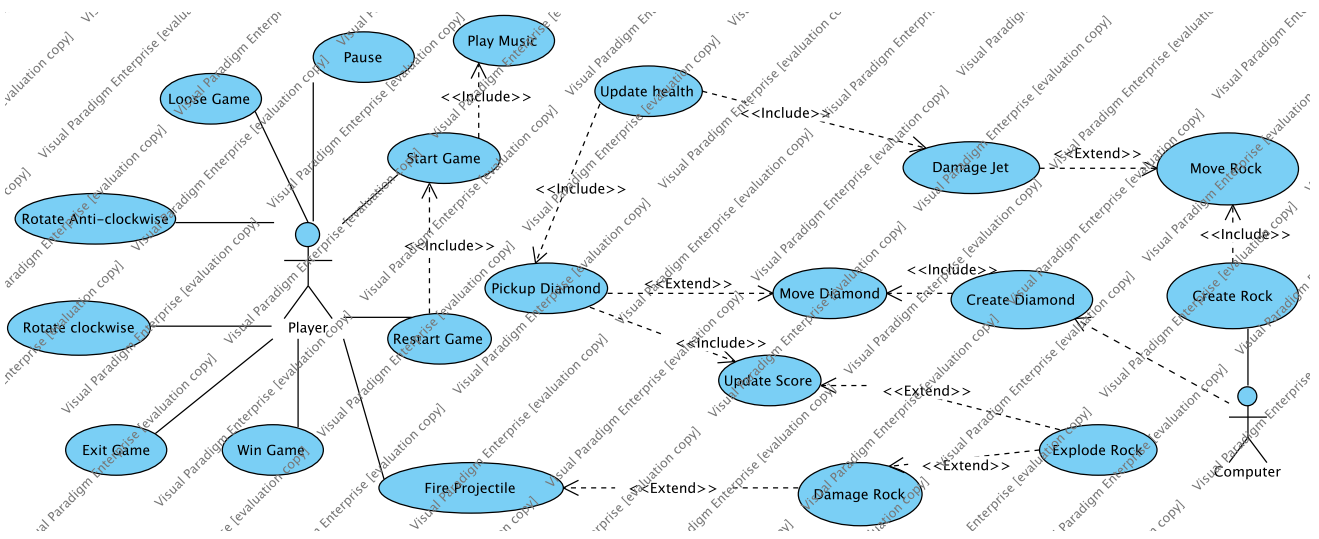


# **CO453 - Application Programming App 05 MonoGame**

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## 2. Computer

ID: AC02

### 3. Create Diamond

ID: UC10

## Create a new diamond with fixed rotation, direction and speed

## 4. Create Rock

ID: UC07

## Create a new rock with fixed rotation, direction and speed

## 5. Damage Jet

ID: UC09

Jet will take the damage by hitting the rock

## 6. Damage Rock

ID: UC05

firing projectile will damage the rock

## 7. Exit Game

ID: UC20

The user will press Esc key and the game will quit.

## ●8. Explode Rock

ID: UC06

firing projectile 3 times will explode the rock

## ●9. Fire Projectile

ID: UC04

the jet will fire the projectile by using the F key.

## ●10. Loose Game

ID: UC17

As the game proceeds, the falling rocks and the rocks coming from other direction will try to hit the jet causing damage and if the jet is hit by five rocks consecutively, then the game will be lost!

## ●11. Move Diamond

ID: UC11

the diamond moves at fixed rotation, direction and speed

## ●12. Move Rock

ID: UC08

the rock moves at fixed rotation, direction and speed

## ●13. Pause

ID: UC18

During the game, the player can pause the game by pressing the space bar key and resume back the game by pressing it again.

## ●14. Pickup Diamond

ID: UC12

the jet has to collect diamonds to increase the health and the score. A sound will be played when the jet picks up the diamond

## ●15. Play Music

ID: UC19

With the start of the game, the music will play.

## ♀16. Player

ID: AC01

## ●17. Restart Game

ID: UC15

The player can restart the game by pressing the R key

## ●18. Rotate Anti-clockwise

ID: UC02

User will press the left-hand arrow key and the jet will rotate 1 degree anti-clockwise to the right

## ●19. Rotate clockwise

ID: UC03

User will press the right-hand arrow key and the jet will rotate 1-degree clockwise to the right

## ●20. Start Game

ID: UC01

Before the user starts a game, a jet will be created and placed at a start position on the left of the screen. Three rocks will be stationary on the right-hand side of the screen, ready to move in the direction of the jet. There will be a sky background image. Message will prompt stating to start a new game, and the user will have to press the Enter key to start the game.

## ●21. Update health

ID: UC14

If the jet is hit by the rocks, its health will be decreased, but if the jet collects the diamond, it will increase its health.

## ●22. Update Score

ID: UC13

If the jet is hit by the rocks, its score will be decreased, but if the jet collects the diamond, its score will increase