A black background with grey leaves

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Technical Design Document

Computer Games Development

Final Year Project

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A grey logo on a black background

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[UML from Visual Studios](#_UML_diagrams_from)

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A video game screen with a fish and a hat

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# UML diagrams from Visual Studios

This is the buildings class diagrams.

A close-up of a computer screen

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This is the Units class diagrams.

A computer screen shot of a diagram

Description automatically generated

A screenshot of a computer program

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This shows the rest of the classes I have in my project.

## Building section

# UML diagrams from Doxygen

This is the UML diagrams for buildings.

This is the inheritance diagram for Building.

A diagram of a building

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This is the Collaboration diagram for Building.

A screenshot of a computer

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Under each one of the building types this is how the diagrams look like, they are all the same.

Inheritance diagram for Headquarters.

A diagram of a building

Description automatically generated

Collaboration diagram for Headquarters.

A diagram of a building

Description automatically generatedA diagram of a building

Description automatically generated

For barracks example.

Inheritance diagram for Barracks.

Collaboration diagram for Barracks.

## Units section

Inheritance diagram for Unit.

A diagram of a computer program

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Collaboration diagram for Unit.

A diagram of a building

Description automatically generated

This is a diagram of VehicleUnit UML diagrams.

Inheritance diagram for VehicleUnit.

A diagram of a vehicle unit

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Collaboration diagram for VehicleUnit.

A diagram of a building

Description automatically generated

Just like for the rest the units’ classes are the same between each other as well.

Inheritance diagram for Harvester unit

A diagram of a vehicle unit

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Collaboration diagram for harvester unit

A screenshot of a diagram

Description automatically generated

A diagram of a system

Description automatically generated

inheritance diagram for Rifleman

Collaboration diagram for Rifleman

A diagram of a diagram

Description automatically generated

inheritance diagram for Firehawk unit

collaboration diagram for Firehawk unit

## Game section.

A diagram of a network

Description automatically generatedThis is a collaboration diagram of the game class.

## Sidebar section

Collaboration diagram for sidebar

A screenshot of a computer

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## GUI section

A diagram of a network

Description automatically generatedCollaboration diagram for GUI

## Function section

The rest don’t have any inheritance or collaboration parts so here is some diagrams of few functions to give an idea how it works, you can check the Doxygen index.html for more information on these diagrams and more.

Particle effect:

addParticle function diagram

A diagram of a diagram

Description automatically generated with medium confidence

Play Sound:

A diagram of a computer

Description automatically generated with medium confidenceplaySound function diagram.