**CS 319 Group 21**

**Academic Warfare User’s Guide**

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# 1 Introduction:

Academic warfare is a tower defense game which consists of different weapons, enemies and 3 maps. Game is implemented in a wave system. Players should protect their towers until the wave ends. The waves will continue as long as the player keeps on playing and after each wave the player will gain coins according to the number of enemies eliminated in that particular wave. The game has 3 different maps and the second and third maps will unlock if the user completes the waves in the previous map successfully. The user can choose which map they want to play with after unlock. The game can be paused, saved and continued. The saved game can be loaded in the beginning as well.

The game will be a desktop application written in java and will use a mouse for the user to interact with the game.

# 2 System Requirements and Installations:

## 2.1 System Requirements:

The Standard Java Runtime Environment (JRE) must be installed before installing the game. To download: <http://java.sun.com/>

**Minimum system requirements:**

·        Windows XP/7

·        Pentium2 233 MHz CPU or higher.

·        512 MB of RAM or higher.

·        Screen resolution: 1024x768

·        Integrated graphics card (e.g. laptops are compatible.).

**Recommended system requirements:**

·        Intel Pentium III 800MHz or equivalent processor (Athlon/Duron/Celeron).

·        512 MB of RAM or higher.

·        Screen resolution: 1366x768.

·        SoundBlaster compatible sound card.

·        For better performance, separate graphics card. (NVIDIA GeForce 3 or ATI Radeon 8500 video card)

·        SUPPORTED CHIPSETS: NVIDIA - GeForce 6800, GeForce FX (5950, 5900, 5800, 5600, 5200), GeForce4 Ti, GeForce3 ATI - Radeon x800, 9800, 9700, 9600, 9500, 9200, 9000, 8500.

## 

## 2.2 Installations:

Unzip the academicWarfare.zip to a directory on your computer and to run the game you have 2 choices.

1-   Run the academicWarfare.jar to execute the game(which it is recommended)

2-   If you have knowledge of java programming, by running our code in java and can play the game.

# 3 Playing the Game:

 More details about the game and the gameplay,list of weapons,maps will be stated in this section.

## 3.1 Overview of the Game:

This tower defense game is implements a wave system. The wave system is groups of

enemies entering and moving like a wave such as group 2 enters 10 seconds after group 1.

The waves will continue as long as the player keeps on playing and after each wave the

player will gain coins according to the number of enemies eliminated in that particular wave.

Thus, the coins earned will increase as the game continues as the waves will get harder.

To defeat these waves the player will build weapons to stop their enemies from reaching

and destroying their base. The game will also have power-up’s and the user will collect these

power-up’s to help them defeat their enemies.

The game has 3 different maps and the second and third maps will unlock if the user

completes the waves in the previous map successfully. The user can choose which map

they want to play with after unlock.

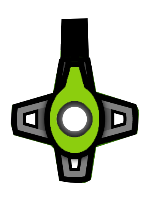
## 3.2 List Of Weapons

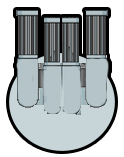
 There are four weapons that the user can choose from, some of these weapons can be

unlocked in-game as the player goes further and bought the coins the user gains after each wave. Weapons fire to the nearest enemy.

** Tekman’s Cannon:** Tekman’s cannon is the base weapon in this game, the cannon shoots with 1 ball per second and deals 10 damage. To place the gun the user has to pay $20.

**    Oktel’s Double Trouble:** This gun is one of the unlockable guns in the game, can be unlocked for $200. Deals 7 damage but its fire rate is 2 shots per second. So it is a much better weapon than Tekman’s Cannon. Build cost of Oktel’s Double Trouble, after unlock, is $150.

**** **Doğramacı’s Rail Gun:** This is the most powerful weapon in the game. The gun deals 20 damage and fires at rate 5 shots per second and the build cost is $350  after unlock. The unlock fee is $2000.

** Bilka’s Bazlamaya Ayvalık Spitter:** This weapon slows down the target by %10 on its each shot and shoots at rate 5 shots per second like the Doğramacı’s Railgun. The unlock fee is $250 and in-game build cost is $150.

## 3.3 Enemies

There will be an academic and assistants accompanying the academic in every wave. In further waves the possibility of the department chair, the dean of engineering and the rector appearing as an academic will increase.

Uğur Doğrusöz

Abdullah Atalar

Mehmet Baray

Can Alkan

Ercüment Çiçek

Erman Ayday

Ezhan Karasan

## 3.4 List of Maps

**Grass Terrain**

The grass terrain is the basic terrain type. It does not have any affect on neither the enemies.

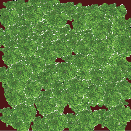
**Snow Terrain**

The Snow terrain’s road is icy and is hard for the enemies to move, so their speed is dropped by %10 in this terrain.

**Forest Terrain**

The forest terrain is similar to the snow terrain but in reverse. In this terrain, the speed of the enemies are increased by %10.



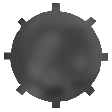
## 3.5 Power-ups

            In the game, there are some bonuses to help out the player. There are four bonuses which are life steal, freeze and thunder bonus.

** Thunder Bonus:**This bonus enables user to explodes each grid cell with probability %10, so if enemy is inside the cell that has exploded then it will die.

** Life Steal:** With this bonus, user can increase tower health by %1 for each enemy killed  in during 5 seconds from its activation.

** Freeze:**User can freeze all enemies for 5 seconds by using this bonus.

** Mines:**User can locate this bonus to any cell in the game screen to destroys enemies within its cell.

## 3.6 Score:

User can able to see current his/her own score and wave number at any time during the game.

## 3.7 Health:

User can see his remaining health at the right corner of the game screen with the score. Health will be different according to the enemies.

## 3.8 Controller:

**Default Mouse Controls:**

UP                    when user drags the mouse forward

DOWN             when user drags the mouse backward

LEFT                when user drags the mouse left

RIGHT              when user drags the mouse right

PLACE THE WEAPON                when user clicks the left mouse button

## 3.7 Save and Load:

User will be able to save current state of game and user can load any saved games in order to continue to play where they left off.

## 3.7 Pause and Resume:

Player will be able to pause the game and resume the game afterwards.

# 4 Game Screenshots & Menus:

## 4.1 Main Menu:

The main menu consists of buttons “New Game”, “Load Game”, “Tutorial”, “Options”, “High Scores”, “Exit” which navigates the user to the desired point.

## 4.2 Load Game:

The main menu consists of buttons “New Game”, “Load Game”, “Tutorial”, “Options”, “High Scores”, “Exit” which navigates the user to the desired point.

In the load game screen as shown, the user can select 3 of his previously saved game, and continue to play the saved game or he can return back to the main menu

Figure 3. Options screen shot

## 4.3 Highscore Table

The user can view his/her highscores through this table shown in figure 11. Afterwards, the user can return to the main menu.

## 4.4 Options

The user can change sound options through this menu shown in figure 12 and return to the main menu afterwards.

## 4.5 Tutorial-Help

The user can view the tutorial whose template as shown isto understand how the game works. The tutorial will consist of multiple pages.

## 4.6 Gameplay

The template for the game play screen is shown. In the larger square the game will be played while in the right squares the available weapons, list of used bonuses and stats regarding the wave will be displayed. Also there is a small men**u** on the upper left corner in which the user can return to the tutorial page, save game, pause and change options.

## 5 Warranties and Troubleshooting:

            “Academic Warfare” team hopes you will have fun during the game. However, it is not guaranteed because the term “fun” can change from person to person. If you face with problems or you had trouble while playing the game, please feel free to contact us by sending us e-mail.

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## Technical Support

If you are having problems running the game, you may want to try updating your hardware drivers before contacting technical support:

ATI Technologies

<http://www.atitech.com/>

NVIDIA

<http://www.nvidia.com/>

Creative Labs

<http://www.creativelabs.com/>

HERCULES

<http://www.hercules.com/>

Turtle Beach

<http://www.turtlebeach.com/>