PLANTERNO GAME PROJECT SPRING2012

PLANTE TO FRAME OF CAME PROJECT SPRING2012

PLANTE 3513 TEAM OF CAME PROJECT SPRING2012

USER STORIES:

- Levels As a user, I want to be able to progress through a series of levels.
- Timed Scoring As a user, I want to beat a level by surviving for a set amount of time.
- Enhanced Options As a user, I want to be able to change difficulty and volume settings.
- Credit Screen As a user, I want to be able to see information about the game's creation
- on the credits screen.
- Alternate Fire As a user, I want to be able to periodically use an alternate firing mode to clear several
- asteroids at once.
- Performance As a user, I want the game to run smoothly.

TDD-ING

- Followed Test-Driven Development for all major changes
- Options
- Media Loader
- Credits
- Alternate Fire
- For some small changes, TDD was not useful. For example, tests for checking that the correct amount of lasers were fired during alternate fire was easy, but testing for how the lasers should spread out was difficult using automated testing. It was much easier to test the spread of the lasers in-game.

UNIT TESTING — UPDATED WEAPON_SPEC FOR ALTERNATE FIRING

```
it 'should have an alternate firing mode on a cooldown' do
  #Trying 3 times in a row will give 1 successfull alt fire
  #and 2 unsuccessful alt fires due to the cooldown
  3.times do
    #10000ms is default cooldown (medium difficulty)
   if @weapon.last_alt_shot + 10000 < milliseconds()</pre>
      @weapon.alt shoot.should == true
    else
     @weapon.alt shoot.should == false
    #If alt fire was just done, trying again should fail
    @weapon.last_alt_shot = milliseconds();
   @weapon.alt shoot.should == false
end
it 'should fire 3 waves of lasers when alt firing' do
  #Before alt fire, the step should be on -1
  @weapon.alt shot step.should == -1
  @weapon.alt shoot
  #After each check alt shoot, the step should be incremented
  @weapon.alt shot step.should == 0 #Incremenented to 0
  @weapon.last alt shot = 0
  @weapon.check alt shoot
  @weapon.alt shot step.should == 1 #Incremented to 1
  @weapon.last alt shot = 0
  @weapon.check alt shoot
  @weapon.alt shot step.should == 2 #Incremented to 2
  @weapon.last alt shot = 0
  @weapon.check alt shoot
  @weapon.alt shot step.should == -1 #Reset to -1 after 3 waves completed
```

UNIT TESTING - SIMPLE TESTING FOR MEDIA_LOADER

```
describe MediaLoader do
   before :all do
     @g = PlanetDefense::GameWindow.new
     @media_loader = PlanetDefense::MediaLoader.new(@g)
    after :all do
     @g.close
    end
    it { @media loader.should respond to :load asteroid }
    it { @media loader.should respond to :load weapon }
    context "when playing" do
        it 'should load files into animations and images' do
            @media_loader.asteroid["asteroid1_1"].should be_kind_of(Gosu::Image)
            @media_loader.asteroid["asteroid1_2"].should be_kind_of(Gosu::Image)
            @media loader.asteroid["asteroid1 3"].should be kind of(Gosu::Image)
            @media_loader.asteroid["asteroid2_1"].should be_kind_of(Gosu::Image)
            @media loader.asteroid["asteroid2 2"].should be kind of(Gosu::Image)
            @media loader.asteroid["asteroid2 3"].should be kind of(Gosu::Image)
            @media loader.asteroid["asteroid3 1"].should be kind of(Gosu::Image)
            @media loader.asteroid["asteroid3_2"].should be_kind_of(Gosu::Image)
            @media loader.asteroid["asteroid3 3"].should be kind of(Gosu::Image)
            Omedia loader.asteroid[:explosion anim].should be kind of(Chingu::Animation)
            @media_loader.weapon[:laser_anim].should be_kind_of(Chingu::Animation)
            @media loader.weapon[:alt laser anim].should be kind of(Chingu::Animation)
        end
    end
```

DEMO

CURRENT STATUS OF GAME

 Nearly all of the features we originally wanted to implement for the game are done. We are now just polishing things and writing more tests.

TEAM MEETINGS

- Regular meetings every Tuesday
- April 2nd Campfire Group Chat
- April 3rd In Person
- April 4th In Person
- Several short Google Talk chats while working individually to get help from other group members

PLANNING FOR NEXT RELEASE

- As a user, I want to be able to create a player profile.
 - Allow making a player profile
 - Save settings and scores based on currently active profile
- As a user, I want to be able to view a high score list.
 - Read scores from all player profiles and sort in descending order (global high score list)
 - Read scores from individual player's profile (personal high score list)
- As a user, I want to be able to grab power-ups floating around the game.
 - Change alternate fire from timed to power-up based
 - Possibly add other power-up abilities, like a shield or upgraded weapon
- As a user, I want to be able to enter cheat codes.
 - Star Trek ship easter egg
 - Add codes for god mode, no weapon heat-up, etc.

Questions?