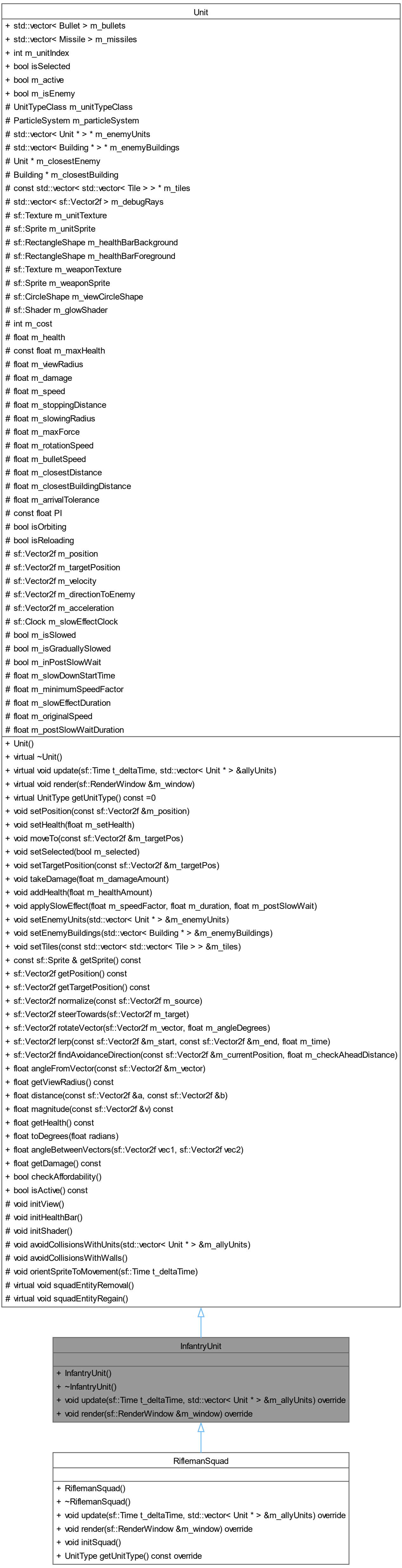
Unit
+ std::vector< Bullet > m_bullets
+ std::vector< Missile > m_missiles
+ int m_unitIndex
+ bool isSelected
+ bool m_active
+ bool m_isEnemy
# UnitTypeClass m_unitTypeClass
# ParticleSystem m_particleSystem
# std::vector< Unit * > * m_enemyUnits
# std::vector< Building * > * m_enemyBuildings
# Unit * m_closestEnemy
# Building * m_closestBuilding
# const std::vector< std::vector< Tile > > * m_tiles
# std::vector< sf::Vector2f > m_debugRays
# sf::Texture m_unitTexture
# sf::Sprite m_unitSprite
# sf::RectangleShape m_healthBarBackground
# sf::RectangleShape m_healthBarForeground
# sf::Texture m_weaponTexture
# sf::Sprite m_weaponSprite
# sf::CircleShape m_viewCircleShape
# sf::Shader m_glowShader
# int m_cost
# float m_health
# const float m_maxHealth
# float m_viewRadius
# float m_damage
# float m_speed
# float m_stoppingDistance
# float m_slowingRadius
# float m_maxForce
# float m_rotationSpeed
# float m_bulletSpeed
# float m_closestDistance
# float m_closestBuildingDistance
# float m_arrivalTolerance
# const float PI
# bool isOrbiting
# bool isReloading
# sf::Vector2f m_position
# sf::Vector2f m_targetPosition
# sf::Vector2f m_velocity
# sf::Vector2f m_directionToEnemy
# sf::Vector2f m_acceleration
# sf::Clock m_slowEffectClock
# bool m_isSlowed
# bool m_isGraduallySlowed
# bool m_inPostSlowWait
# float m_slowDownStartTime
# float m_minimumSpeedFactor
# float m_slowEffectDuration
# float m_originalSpeed
# float m_postSlowWaitDuration
+ Unit()
+ virtual ~Unit()
+ virtual void update(sf::Time t_deltaTime, std::vector< Unit * > &allyUnits)
+ virtual void render(sf::RenderWindow &m_window)
+ virtual UnitType getUnitType() const =0
+ void setPosition(const sf::Vector2f &m_position)
+ void setHealth(float m_setHealth)
+ void moveTo(const sf::Vector2f &m_targetPos)
+ void setSelected(bool m_selected)
+ void setTargetPosition(const sf::Vector2f &m_targetPos)
+ void takeDamage(float m_damageAmount)
+ void addHealth(float m_healthAmount)
+ void applySlowEffect(float m_speedFactor, float m_duration, float m_postSlowWait)
+ void setEnemyUnits(std::vector< Unit * > &m_enemyUnits)
+ void setEnemyBuildings(std::vector< Building * > &m_enemyBuildings)
+ void setTiles(const std::vector< std::vector< Tile > > &m_tiles)
+ const sf::Sprite & getSprite() const
+ sf::Vector2f getPosition() const
+ sf::Vector2f getTargetPosition() const
+ sf::Vector2f normalize(const sf::Vector2f m_source)
+ sf::Vector2f steerTowards(sf::Vector2f m_target)
+ sf::Vector2f rotateVector(sf::Vector2f m_vector, float m_angleDegrees)
+ sf::Vector2f lerp(const sf::Vector2f &m_start, const sf::Vector2f &m_end, float m_time)
+ sf::Vector2f findAvoidanceDirection(const sf::Vector2f &m_currentPosition, float m_checkAheadDistance)
+ float angleFromVector(const sf::Vector2f &m_vector)
+ float getViewRadius() const
+ float distance(const sf::Vector2f &a, const sf::Vector2f &b)
+ float magnitude(const sf::Vector2f &v) const
+ float getHealth() const
+ float toDegrees(float radians)
+ float angleBetweenVectors(sf::Vector2f vec1, sf::Vector2f vec2)
+ float getDamage() const
+ bool checkAffordability()
+ bool isActive() const
# void initView()
# void initHealthBar()
# void initShader()
# void avoidCollisionsWithUnits(std::vector< Unit * > &m_allyUnits)
# void avoidCollisionsWithWalls()
# void orientSpriteToMovement(sf::Time t_deltaTime)
# virtual void squadEntityRemoval()
# virtual void squadEntityRegain()
InfantryUnit
+ InfantryUnit()
+ ~InfantryUnit()
+ void update(sf::Time t_deltaTime, std::vector< Unit * > &m_allyUnits) override
+ void render(sf::RenderWindow &m_window) override
RiflemanSquad
+ RiflemanSquad()
+ ~RiflemanSquad()
+ void update(sf::Time t_deltaTime, std::vector< Unit * > &m_allyUnits) override
+ void render(sf::RenderWindow &m_window) override
+ void initSquad()
+ UnitType getUnitType() const override