*Florida International University*

*School of Computing and Information Sciences*

CIS 4911 - Senior Capstone Project

Software Engineering Focus

Feature Document

User Story #806 Get a response from Speech Basics.

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**User Story**

* As a Team Developer I would like to better understand the Speech Basics sample so I can get a response from the Kinect for painting.
* Set up the Speech Basics and comprehend the program.
* Manipulate the program to provide a response to a given word.

**Acceptance Criteria**

* Speech Basics able to run.
* Being able to explain parts of the program.
* Add a word to the program that it recognizes.

**Use Case** #**1 Get coordinates from the Kinect gesture.**

The users will be able to get a response from the Kinect Speech Basics with a word.

Actors: User.

Entry Condition:

This use case start when:

* The user speaks at the Kinect.
* The Speech Basics Example is running.

Flow of events:

1. The user speaks a command at the Kinect.

2. The system processes the speech.

3. The system provides a response to the speech.

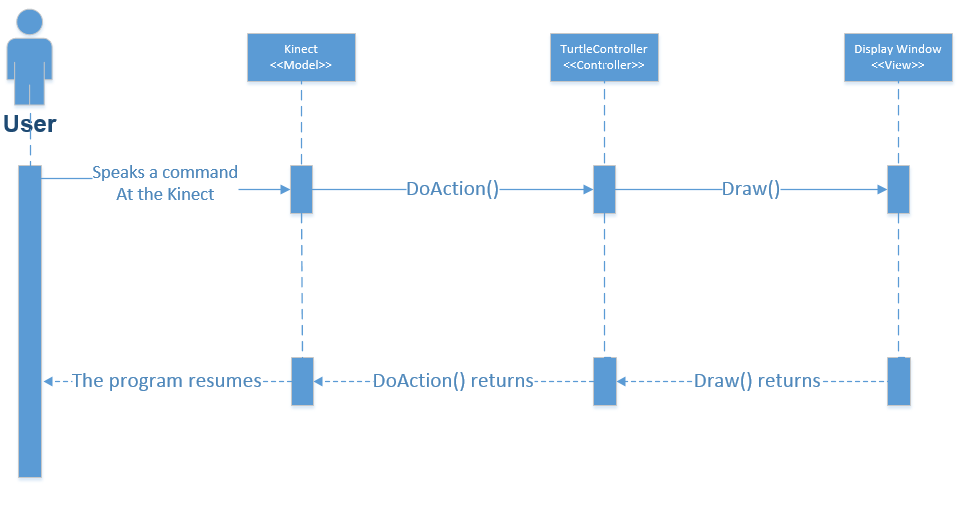
Exit Condition:

The response has been given to the command.

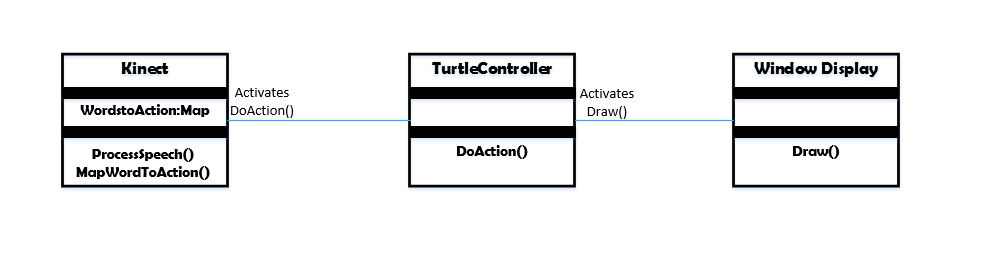
**Use Case Diagram**



**Sequence Diagram**



**Class Diagram**



**Unit Test**

Sunny Day Tests

Test Case: Output from Speech Basics

Test Purpose: Ensure that user can get a response from Speech Basics..

Test Setup:

⦁ run program

Test Output:

A picture moves in response to a command.

Expected Output:

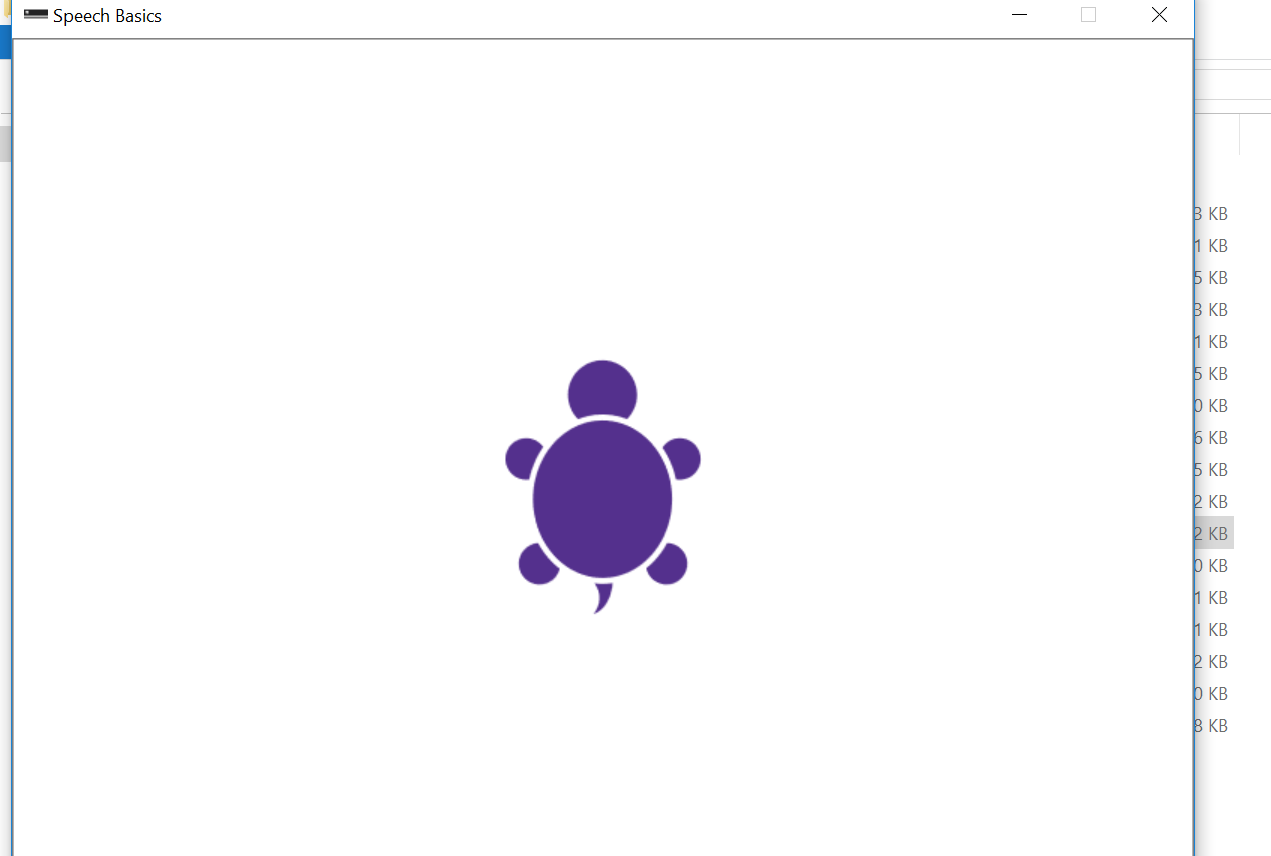
After testing, the picture should be moved from the starting point.

**Integration Test**

After a successful run and compilation of the program, the program runs as expected with the given commands.

**Visual User Guide**

1. **The user begins the speech basics program and sees this screen.**



**2. After speaking a predefined command (turn left is shown) the screen shows the turtle having executed the command.**

