**Title**: App Scavenger Hunt Check Solution

**Description:** Allows the User to check if the String input or GPS Coordinates match the Current Clue's Clue Solution.

**Pre-conditions:**

* The App is displaying the Scavenger Hunt Screen.

**Post-conditions:**

* The App displays
* The User will be on the Scavenger Hunt Screen and a new Clue’s Description and Optional Picture will be displayed or a message will be displayed informing the User that all Clues have successfully been solved and the System will return to the Main Menu Screen.

**Actors:**

* User
* App

**Main Success Scenario:**

1. User presses the Scavenger Hunt Check Button.
2. App finds that the Current Clue's Clue Solution requires GPS Coordinates.
3. App gathers the user's current GPS Coordinates.
4. App determines that current GPS Coordinates are within a 16 meter radius of the Current Clue's Clue Solution's GPS Coordinates.
5. App marks Current Clue as solved.
6. App finds the Scavenger Hunt Clue that follows the Current Clue.
7. App displays the Scavenger Hunt Screen with the found Scavenger Hunt Clue's Description and if it exists, the Scavenger Hunt Clue's Picture.

**Alternate Flow 1:**

1A. User selects the Scavenger Hunt Screen's Text Box.

2A. App displays the Device’s default On-Screen Keyboard.

3A. User types with the On-Screen Keyboard to enter a String response into the Scavenger Hunt Screen's Text Box.

4A. User presses the return/enter key on the On-Screen Keyboard.

5A. App resumes Main Success Scenario at step 1.

**Alternate Flow 2:**

2B. App finds that the Current Clue's Clue Solution requires a String.

3B. App determines that the String in the Text Box matches (case-insensitive) the Current Clue's Clue Solution's String.

4B. App resumes Main Success Scenario at step 5.

**Alternate Flow 3:**

2C. App finds that the Current Clue's Clue Solution requires a String.

3C. App determines that the String in the Text Box does not match (case-insensitive) the Current Clue's Clue Solution's String.

4C. App displays an Error Message with the text “Your solution is incorrect! Please tery again.”.

5C. App resumes Main Success Scenario at step 1.

**Alternate Flow 4**:

4D. App determines that current GPS Coordinates are not within a 16 meter radius of the Current Clue's Clue Solution's GPS Coordinates.

5D. App displays an Error Message with the text “You are in the wrong location! Please try again.”.

6D. App resumes Main Success Scenario at step 1.

**Alternate Flow 5**:

4E. App cannot find the Scavenger Hunt Clue that follows the Current Clue.

5E. App displays an Error Message with the text “You have completed the scavenger hunt!”.

6E. App marks all Scavenger Hunt Clues as unsolved.

7E. App displays the Scavenger Hunt Screen with the first Scavenger Hunt Clue's first Clue Description and if it exists, the first Scavenger Hunt Clue's Clue Picture.

8E. App resumes Main Success Scenario at step 1.

**Alternate Flow 6**:

1F. App receives an interrupt signal from the operating system and looses focus.

2F. App regains focus and resumes at the step where it had lost focus.