

Requirements specification for Object Creator Team

Software Engineering (CS240)

Object Creator team

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Abstract

Introduction:

Use Cases:

Name: Create Object

Actor(s): User/Sprite creator (Sprite creator generates a new sprite for our object, the user specifies parameters of new object)

Preconditions/Assumptions: The view has been initialized, file save location specified(not sure if this is part of program start-up sequence)

Flow of Events:

1. User selects create new object(potentially through interaction with empty space or UI)
2. UI prompt generated for user to select between importing or creating image for sprite
3. User selects an option and generates image(s) for sprite
4. Object creator generates interface for specifying identifiers(name, references, etc)
5. User submits name for object
6. Images and identifiers converted to JSON/Javascript files and saved into memory.
7. Sprite appears on view and sent to story editor(if available)
8. Object creation interface disappears
9. End of use case

Alternatives:

- Multiple objects with same name/identifier
- File cannot be saved in specified location

Postconditions: The object creation interface disappears, new sprite is displayed

Name: Create Sprite

Actor(s): User

Preconditions/Assumptions: The view has been initialized

Flow of Events:

1. User selects create new sprite option
2. Object creator generates new canvas and sprite creator window

3. User selects tool from Sprite creator options
4. User inputs tool parameters(mouse commands/inputs)
5. Input added to canvas
6. Repeat actions 3 - 5 as specified by User
7. Store canvas data
8. Close sprite creator window and send to view
9. End of Use Case

Postcondition: Sprite creator disappears, sprite is displayed and usable

Name: Specify Objects' Names

Actor(s): Users/ Sprite creator

(Sprite creator can specify the names of the objects. These names would be saved and later be called for adding methods.) Preconditions/Assumptions: Objects have been created

Flow of Events:

1. User double-clicks the object to select the target.
2. User creator right-clicks the screen. Right-click menu will be displayed.
3. User left-clicks the "Name" option on the right-click menu.
4. A dialog box asking for the user's input within a one-line textbox will be displayed.
- 5.1 If the object hasn't been assigned a name, user can type a name within the textbox.
- 5.2 If the object has had a name, the name will be displayed within the textbox, the user can modify, delete the name or assign a new name for the object.
- 6.1 User clicks the submit button, the object's name will be saved.
- 6.2 User clicks the cancel button, the modification will be canceled.
7. End of the use case.

Alternatives:

- The user has typed illegal characters
 - The name is too long. (maybe more than 32 letter+numbers)
- :the input won't be saved, a dialog box would display a warning message. User would have to assign a new name. -back to Event No.4.

Postconditions: Methods can be called using the right-click menu.

Nonfunctional Requirements:

Availability:

- The Object-creator module would be available whenever the users log into the system with PC or Macintosh platforms.
- The object-creator module should not fail for 90% of cases.

Usability:

- The users are not expected to have any knowledge of or previous experience programming.
- For users with basic computer operation ability, the average time of learning the facilities of the module independently should be no more than one hour. Ten minutes of training before independent use is possible.
- On average, the users with previous experience using graphics editing program may make errors no more than 5 times per hour. The new users may make more errors while learning, but should be able to be skilled users in one hour with informative error messages and well-formed graphical user interfaces.

Documentation:

- The documentation of object-creator module should be fully understandable to the animation module group.

Glossary: