

# Shrugs

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*Shrugs Helps Regular Users Generate Sites*

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*Product Backlog*

### **A. Problem Statement:**

Shrugs is a web application that will allow for simple website layout/design for unskilled website programmers. It will be a Java application with a GUI utilizing the Swing package.

### **B. Background Information:**

As the Internet becomes more important in our daily lives, having a website becomes more essential, for both businesses and individuals. However, doesn't know how to develop websites, their options are limited: they can use expensive, cumbersome software or they can hire a web developer. Neither of these options is ideal.

Shrugs is a simple tool to enable users to build their own clean, professional-looking sites using a familiar painter-style interface. Users can draw the different elements for their site and Shrugs will generate the appropriate files to allow the site to be deployed on the web. Users can also save their sites in a Shrugs-compatible format for later modification.

### **C. Environment & System Models:**

We decided that a Model-View-Controller (MVC) architectural pattern was the best fit model for Shrugs.

**Model:** Sites will be represented in a tree format. There will be one master container containing child containers (which may then contain more children or data).

**View:** The view will be the 'canvas', or Java Swing Package Components rather, which will display and render the visuals on the screen.

**Controller:** The controller will be a set of classes which will handle the user's interaction with the view and the model.

### **D. Functional Requirements:**

- **Inputs:**

The user will be able to import JSON files which will represent web pages in our Shrugs editor. The user should also be able to input using a GUI to graphically design a website.

- **Outputs:**

The GUI canvas will display a basic rendering of the current site layout. Users will be able to save the site as an editable file or export it as a website.

- **Computations and Timing:**

Importing of an average sized website should take approximately five seconds. Exporting a similar site should take roughly the same amount of time. Adding new elements to the site should take less than half a second.

**E. Quality, platform and process requirements:**

We are constrained to computing devices with the JRE installed as we will be writing Shrugs in Java. Shrugs needs to be able to export websites that are compatible with most widely used updated versions of browsers.

## F. Use Cases:

ID	Catagory	Case Story	Priority	Estimate (hours)
1	Add	As a user, I want to add a square so that I can represent a web object	1	2
2	Add	As a user, I want to add a new project so that I can represent a new web page or a new project.	1	2
3	Delete	As a user, I want to remove a square so that I can omit a web object.	1	1
4	Delete	As a user, I want to remove a project so that I can omit a web page / web project.	1	2
5	Delete	As a user, I want to my objects that exist to reposition themselves after a delete so that I can delete an object and not have to worry about scaling issues.	3	3
6	Move	As a user, I want to move an existing object so that I can reposition / redesign the way I want my webpage to look.	2	4
7	Move	As a user, I want to have the other square move in accordance to other moved objects so that I can have a web page that does not have any overlapping objects.	3	4
8	Resize	As a user, I want to resize an object so that I can modify the size of a web object on my web page to represent an accurate size of how I want it on my web page.	2	4
9	Resize	As a user, I want to other objects to move/resize when i resize a different object so that I can have a web page with no overlapping disproportional objects.	3	5
10	Import	As a user, I want to import an existing shrugs project form a file on my local drive so that I can resume a web project from where I left off.	1	3
11	Import	As a user, I want to asked if i want to resume an existing project when i first use the shrugs application this session so that I can resume a web project.	3	1
12	Import	As a user, I want to have the option to import a shrugs project at any time so that I can resume a project at from any given time.	2	1
13	Export	As a user, I want to be able to export my project to my local drive at any given time so that I can resume my shrugs project at any time in	1	3

		the future.		
14	Export	As a user, I want the option to be given to me to export my project as I leave the shrugs application so that I can save any progress that made on my application incase i forgot.	2	1
15	Color	As a user, I want to recolor objects so that I can which objects should represent what.	2	2
16	Color	As a user, I want to remove color from objects so that I can change m mind on the color of an object at any time in the future.	3	1
17	Resize Web App	As a user, I want the web application to automatically resize so that I can use it at any resolution that i request.	3	4
18	Resize Web App	As a user, I want to my web site to automatically resize when completed so that I can have a product that will also automatically resize when completed.	3	5
19	Preview	As a user, I want to preview a completed page based on a shrugs web page project so that I can determine how to proceed on the existing progress of my web page.	1	4