

Overview

The purpose of this document is to track the active set of specifications that are used for the CSCI 2340: Software Engineering Art Generation semester-long project. Throughout the semester, this document will be maintained to accurately reflect the specifications that are used within the system.

Specifications

SPECIFICATION_1

Specification Type: User Input, System Output

Specification Description: The interface will support a share button that allows the user to specify the desired output format ie. gif, image, or short video, as well as a destination that includes social media sites and a local download option.

Associated Requirement: AG_SYS_REQ_2, AG_SYS_REQ_3, AG_SYS_REQ_4

SPECIFICATION_2

Specification Type: System Output

Specification Description: The web application will take user web cam data as input and generate various stylized, data-specific outputs. The generated output will be a creative representation of environmental data, using color, motion, and intensity to represent various trends in the data.

Associated Requirement: AG_ART_REQ_1

SPECIFICATION_3

Specification Type: System Output

Specification Description: The user will have the ability to choose from multiple environmental datasets including global temperature, water level, precipitation rates, etc... which will each generate different data-specific outputs that reflect creative renderings of the environmental data trends.

Associated Requirement: AG_ART_REQ_2

SPECIFICATION_4

Specification Type: System Setting

Specification Description: The main user interface will be a web application that takes user inputs through user panel and generate outputs(image/ gif/ video) accordingly

Associated Requirement: AG_ART_REQ_3

SPECIFICATION_5

Specification Type: System Output

Specification Description: The interface will generate texts explaining how we generate the outputs(which dataset is employed) and the meaning behind them(what's the environmental or social impact) base on user's dataset choice

Associated Requirement: AG_ART_REQ_4

SPECIFICATION_6

Specification Type: User Input

Specification Description: The interface will include a user panel such that the user can adjust parameters or choosing between datasets to generate specific output they desire

Associated Requirement: AG_ART_REQ_5