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Description of Class Case Study:

**Case Study on GIMP**

GIMP is a free and versatile open-source graphics editor written in C language, owing its user interface to GTK+ which assists in building GUIs. GIMP stands for GNU Image Manipulation Program. GIMP is used for image manipulation and editing, this includes retouching images and photos, changing their composition (arrangement of elements), and authoring them (working around with image texture). Free-form drawing and transcoding (interconversion of different encoded formats) are some of its other key features.

GIMP was developed in 1995 by Spencer Kimball and Peter Mattis, students at the University of California, Berkeley. It was primarily developed by volunteers as a free and open-source software project associated with both GNU and GNOME projects.

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The GIMP interface is modular (into “docks”) and customizable. It allows one to change it as per their preferences. The sizing of widgets and choice of colors are both customizable to the user’s taste. Its most salient editing features include perspective and barrel distortion, digital retouching through cloning, channel mixer, gradient editor, and blend tool. And a suite of painting tools such as brush (custom brushes too!!), pencil, airbrush, etc., sub-pixel sampling for all paint tools for high-quality anti-aliasing (smoothing overjagged parts).