**SuperReso**

**Assignment # 1**

**Requirements Engineering (7129)**

**Institute of Business Administration, Khi**

**Prepared by**

**Aman Razi Kidwai (22790)**

**Project Description:**

The SuperReso is an Image Upscaling application designed to enhance the quality of images by increasing their resolution and improving their visual fidelity. The app leverages advanced image processing techniques and algorithms to upscale low-resolution images, making them suitable for various purposes such as printing, viewing high-resolution displays, or improving the quality of old or degraded photos.

**Stakeholders:**

**1. Users (Positive Stakeholders):**

* **End Users:** These are the primary beneficiaries of the app, including individuals, photographers, graphic designers, and anyone who wants to improve the quality of their images.
* **Content Creators:** Professionals who require high-quality images for their work, such as graphic designers, artists, and marketers.
* **Photography Enthusiasts:** Amateur and professional photographers looking to enhance and print their photos at higher resolutions.
* **Archivists:** Organizations or individuals preserving historical photos or documents that can benefit from upscaling and restoration.

**2. Business/Development Team:**

* **Developers:** The team responsible for building, maintaining, and updating the app.
* **Product Managers:** Oversee the project's development, prioritize features, and ensure alignment with user needs.
* **Quality Assurance/Testers:** Ensure the app functions correctly and meets quality standards.
* **Designers:** Create the app's user interface and user experience (UI/UX).

**3. Negative Stakeholders:**

* **Competitors:** Other companies or apps in the super-resolution market may see your app as a threat to their business.
* **Privacy Advocates:** Concerned individuals or groups may raise privacy issues if the app processes user-uploaded images in specific ways without proper consent or security measures.
* **Environmentalists:** Depending on the app's popularity, there may be concerns about the energy consumption of super-resolution algorithms, as they can be computationally intensive.

**User Classes:**

**1. Basic Users:**

* **Casual Users:** Individuals occasionally use the app to upscale personal photos or images for nonprofessional purposes.
* **Students:** Students who may use the app for academic projects or presentations.

**2. Intermediate Users:**

* **Photographers:** Amateur and semiprofessional photographers who rely on the app for enhancing their photos.
* **Content Creators:** Professionals who use the app as a part of their content creation workflow.

**3. Advanced Users:**

* **Graphic Designers**: Users who require high-quality images for professional graphic design work.
* **Archivists:** Users responsible for preserving historical or valuable visual content.
* **Developers:** Those who integrate the app's API or SDK into other software applications.