

Project Design Phase-I
Solution Architecture

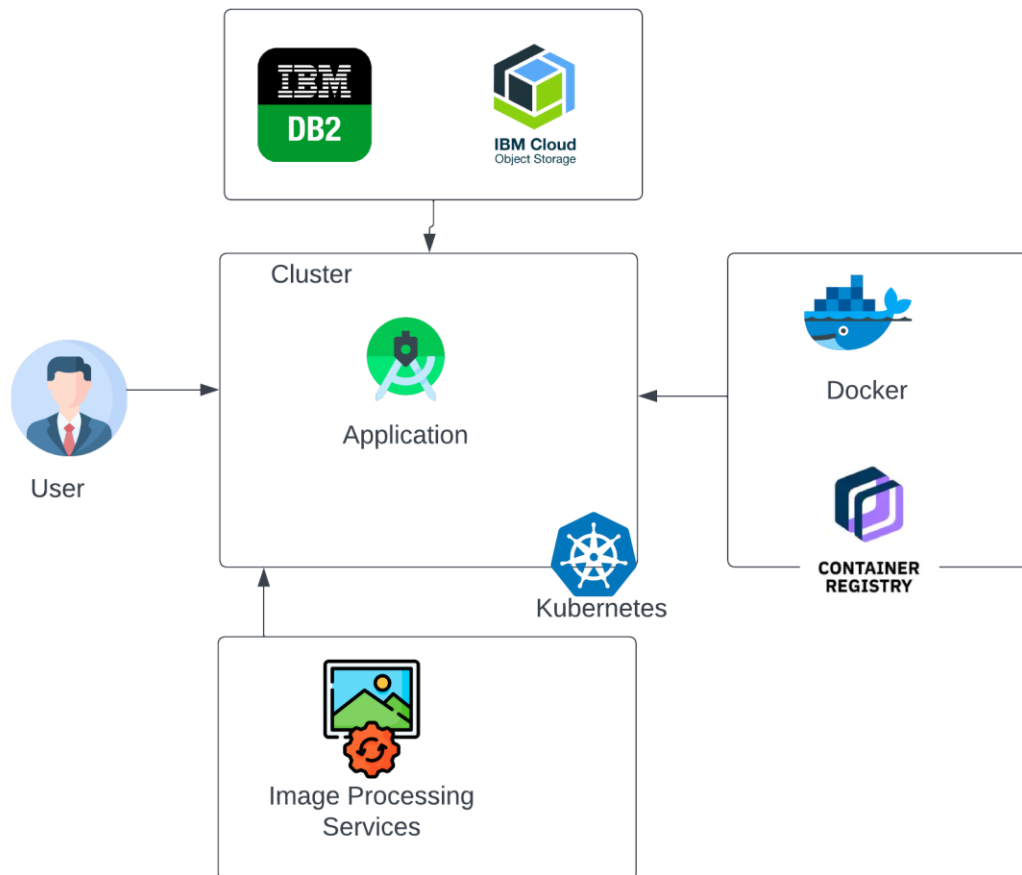
Date	05 May 2023
Team ID	NM2023TMID00055
Project Name	Project – Pixel Perfection: Transforming your photos with our cutting-edge image editing platform.
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

1. **Front-end:** The front-end of Pixel Perfection could be a web-based application that users access through their web browser. The front-end would include the user interface, which would allow users to upload their photos and apply various filters and editing tools.
2. **Back-end:** The back-end of Pixel Perfection would include the server-side components that support the application. This could include a database for storing user data and images, as well as an API for communicating with the front-end and third-party services.
3. **Image processing:** Image processing is a critical component of Pixel Perfection, and it could be handled by AI and machine learning algorithms. These algorithms would be responsible for applying filters and enhancing the quality of the uploaded images.
4. **Cloud infrastructure:** Pixel Perfection could leverage cloud infrastructure, such as Amazon Web Services (AWS) or Google Cloud Platform (GCP), to host its application and handle the image processing. This would allow for easy scaling and high availability.

Example - Solution Architecture Diagram:



Architecture of Pixel Perfection: Transforming your images with our cutting-edge editing platform