

## Project Design Phase Solution Architecture

|               |   |
|---------------|---|
| Date          | 15 February 2025                            |
| Team ID       | LTVIP2025TMID29410                          |
| Project Name  | Smart SDLC using Generative AI on IBM Cloud |
| Maximum Marks | 4 Marks                                     |

### Solution Architecture:

The solution architecture for the Smart SDLC project leverages Generative AI capabilities within IBM Cloud to streamline, automate, and enhance the software development lifecycle (SDLC). It bridges business needs for faster, error-free software delivery with AI-powered development tools and workflows.

- Automate and optimize various SDLC stages using Generative AI.
- Integrate IBM Cloud-native services for scalability, security, and resilience.
- Enhance productivity, reduce manual errors, and support continuous delivery.
- Facilitate collaboration between developers, testers, and stakeholders via intelligent insights.

### Solution Architecture Diagram:

