Project Design Phase Solution Architecture

| Date | 21 June 2025 |
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| Team ID | LTVIP2025TMID48991 |
| Project Name | ToyCraft Tales: Tableau's Vision into Toy Manufacturer Data |
| 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:

- Find the best tech solution to solve existing business problems.
- Describe the structure, characteristics, behavior, and other aspects of the software to project stakeholders.
- Define features, development phases, and solution requirements.
- Provide specifications according to which the solution is defined, managed, and delivered.

Solution Architecture Diagram:

ToyCraft Tales - Enterprise System Landscape **Email Infrastructure** Delivers welcome emails and **End User** Sends transactional emails via authenticated SMTP [SMTP/TLS] Accesses via HTTPS through ngrok secure tunnel [HTTPS/Web Browser] Browser-based users accessing the ToyCraft **ToyCraft Tales** Tales platform via secure **Enterprise Platform** Serves HTML ngrok tunnel pages, success/error messages, and interactive content [HTTPS/Web Browser] Mission-critical Flask-based Sends alerts and system reports [Email/Dashboard] web application platform with integrated business -> System Administrator intelligence, customer Monitors system health and Reviews contact relationship management, submissions and and automated performance system reports [HTTPS/Web Browser metrics [HTTPS/Admin Panel] Technical administrator communication workflows **Customer Care** responsible for system ----**Executive** monitoring, maintenance, Embeds dashboards and analytics via REST API [HTTPS/REST API] and configuration management Internal staff member responsible for reviewing and managing customer contact submissions Tableau Public Platform Cloud-based business intelligence platform providing embedded analytics, interactive dashboards, and data